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Signal Transmission Products and Systems

EMEA Master Catalog

COPPER CABLE & CONNECTIVITY

FIBER OPTIC CABLE & CONNECTIVITY

CABLE MANAGEMENT SOLUTIONS

WIRELESS SOLUTIONS

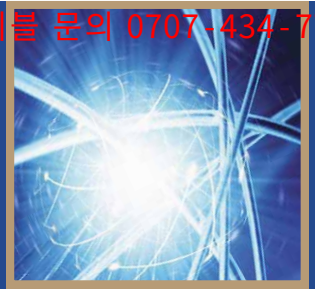
POWER OVER ETHERNET PRODUCTS



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Belden is an innovative company, leading where others follow. Many new products are unique and have been singled out for recognition in the trade press and by customers. Here are a few examples which are simply typical of Belden:

Transforming Composite Cable Installation…

Banana Peel®

This new idea is an installer's dream. Banana Peel® is very easy to install. It is a fully integrated version of the composite cable construction where the various cables are fixed to a centre spline for easy pulling rather than being bundled together.

A revolutionary step is the elimination of an outer jacket. This means labour saving because individual cables are instantly identifiable and ready for termination.

Simply, Belden.

The Future is Changing and Belden is Changing the Future



Big Performance From a Small Cable…

Digitruck™

This is a revolutionary and award-winning cable. It is a miniature coaxial, weighing about 60% less than a standard Mini RG 59/U coax; that means it requires 40% less space. With superior return loss characteristics, it is designed specifically for analog, SDI, HD video and AES/EBU digital audio transmission in broadcast production trucks where space and weight are critical.

Simply, Belden.

Problem Solving with Enhanced Ability…

IBDN System 10GX

This flagship system is revolutionary in Belden's family of structured cabling systems. The fully integrated 10 Gigabit solution is designed around a series of dynamic enabling technologies. These overcome problems which other manufacturers cannot solve – namely, the ability to reduce significantly alien crosstalk and the ability to control key electrical characteristics during high frequency operation.

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BELDEN...Sending All the Right Signals Around Europe, Middle East and Africa

We focus on being the brand that is trusted...the brand that can be depended upon to give the right signals... the brand that provides the most cost effective solutions.

Belden customers enjoy working with Belden. Repeatedly, they tell us that Belden is the brand they can trust and rely on for dependable signal transmission. This is because the Belden brand has become synonymous with high quality, high performance and reliability. All that means peace of mind, all the time and in any market – broadcast, commercial networking, security, industrial, residential and many other applications.

We have earned our worldwide reputation as an expert solution provider. You are our number one priority. We care for you and we make it our job to supply you with high performance, quality products and innovative solutions on which you can rely.

Belden offers the very widest range of signal transmission products. We provide all the data and backup support necessary to help you to make the right decision to meet your requirements and to solve your problems.

The company is continually growing, evolving and developing. That means ongoing research and development to bring to market the very best in signal transmission technology – copper, optical fiber, wireless and so on. Consequently, the product range has expanded to include complete system solutions including, for example: connectivity equipment, enclosures, cable raceways and racks.



The Future is Changing and Belden is Changing the Future

Your Starting Point

This EMEA Master Catalog is your single source solution – the easy to read and comprehensive reference to thousands of cabling and signal transmission products and related products.

The Catalog is designed to be the essential tool which will provide the answer and solve the problem – whatever the application and wherever you are in Europe, the Middle East, Africa or elsewhere.

In addition, all the information in these pages, together with easy-to-access tools and helpful advice, can be found on www.belden-emea.com

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How to Use the Belden Master Catalog

If You're Not Sure of What You Need...

Select by Cable Type or Application
Use the section index below or look at the more detailed Table of Contents pages found at the beginning of each section to find your cable type or application.

Select by Keyword
Reference the Table of Contents section on the following pages for an alphabetical listing of product keywords.

Consult the Cable Finder Guide
If you know the gage size, shielding type, and/or number of conductors needed for your application, you can locate a part number and corresponding catalog page number for all matching multi-conductor and paired cable products in the Cable Finder Guide (section 2).

If You Know the Belden Part Number...

Consult the Index in the Back of the Catalog
In the Part Number Index (section 24), you'll find a numerical listing of Belden part numbers. This comprehensive index lists every product featured in the Belden Master Catalog.

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Contact One of Our Sales Representatives for Assistance

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To Place an Order

For many of the products in the catalog, you will find everything you need in this catalog to place an order. Should you need assistance, please contact your Belden sales representative. A complete list of all of our sales offices can be found on the back cover of this catalog or at www.belden-emea.com.

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BELDEN
SENDING ALL THE RIGHT SIGNALS



2 Cable Finder Guide

The Belden Cable Finder Guide is a tool for the user of the Belden Master Catalog. It is designed to give quick access and page reference to current Belden product offerings by AWG size, shielding type and number of conductors. Use the Cable Finder to locate where the specific cable you seek is detailed in the body of the catalog.

The cross reference lists shows equivalent nominal values. Actual cross sections may vary. The AWG values are approximate, if the cables are made to European standards (mm^2) and vice versa. In critical applications, where the current reaches upper limits, the deviating operation conditions for installation and laying according to standards are to be taken into consideration.

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Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
28 AWG 0.07 mm² **0.40**			**0.30**															
4	none	19x40							1804A	19.10								
	2	7x36		x									8132	5.14				
	2	7x36		x									9804	5.13				
6	3	7x36		x									8133	5.14				
	3	7x36		x									9805	5.13				
8	4	7x36		x									8134	5.14				
	4	7x36		x									9806	5.13				
10	5	7x36		x									8135	5.14				
	5	7x36		x									9807	5.13				
14	7	7x36		x									9808	5.13				
16	8	7x36		x									8138	5.14				
18	9	7x36		x									9809	5.13				
24	12	7x36		x									9812	5.13				
25	12+1/C	7x36		x									8142	5.14				
26	13	7x36		x									9813	5.13				
36	18	7x36		x									8148	5.14				
	18	7x36		x									9819	5.13				
50	25	7x36		x									8155	5.14				
	25	7x36		x									9825	5.13				
62	31	7x36		x									9814	5.13				
26 AWG 0.14 mm² **0.50**			**0.40**															
2	1	7x34		x							9180	19.16						
	1	7x0.16															BE46273*	19.18
	1	7x0.16															BE46202*	19.18
	1	18x0.1		x													BE46959*	19.17
	none	19x0.107							HMC0016	4.16								
	none	19x0.107							HMC0331	4.30								
	1	18x0.1		x													YE00193*	19.17
3	none	19x0.107							HMC0017	4.16								
	none	19x0.107							HMC0332	4.30								
4	none	30x40		x					1172A	19.10								
	2	7x34													1215A*	15.72		
	2	19x38		x													7884A	19.12
	2	7x34		x											7891A*	19.17		
	2	7x0.16															BE46203*	19.18
	2	18x0.1		x													BE46923*	19.17
	none	19x0.107							HMC0018	4.16								
	none	19x0.107							HMC0333	4.30								
5	none	19x0.107							HMC0019	4.16								
	none	19x0.107							HMC0334	4.30								
6	none	19x0.107							HMC0020	4.16								
	none	19x0.107							HMC0335	4.30								
7	none	19x0.107							HMC0021	4.16								
	none	19x0.107							HMC0336	4.30								
8	4	7x34		x							1868E	15.66						
	4	7x34		x							1868ENH	15.66						
	4	19x38		x													7885A	19.12
	4	7x34		x											7890A*	19.17		
	4	7x0.16															BE46204*	19.18
	4	18x0.1															BE46312*	19.12
	4	18x0.1		x													BE46925*	19.17

* Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
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케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
26 AWG 0.14 mm² **0.50**			**0.40** *(continued)*															
16	8	7x34		x											7880A*	19.17		
	8	19x38		x													7886A	19.12
	8	7x0.16															BE46266*	19.18
	8	18x0.1															BE46313*	19.12
	8	18x0.1		x													BE46935*	19.17
20	10	7x0.16															BE46208*	19.18
	10	18x0.1		x													BE46936*	19.17
24	12	19x38		x													7887A	19.12
	12	7x34		x											7892A*	19.17		
	12	7x0.16															BE46205*	19.18
	12	18x0.1															BE46315*	19.12
	12	18x0.1		x													BE46937*	19.17
32	16	19x38		x													7888A	19.12
	16	7x34		x											7893A*	19.17		
	16	7x0.16															BE46207*	19.18
	16	18x0.1															BE46305*	19.12
	16	18x0.1		x													BE46938*	19.17
48	24	19x38		x													7889A	19.12
	24	18x0.1															BE46306*	19.12
80	40	18x0.1															BE46948*	19.12
25 AWG 0.16 mm² **0.50**			**0.45**															
1	none	7x33							8410	19.21								
24 AWG 0.22 mm² **0.60**			**0.50**															
1	none	8x0.193							HMC0486	4.37								
2	1	7x32		x							1508A	19.14						
	1	7x32		x							1508ENH	19.14						
	1	7x32		x							1800B	19.16						
	1	41x40		x					1800F	19.16								
	1	7x32		x							1883A	19.11						
	1	41x40		x									7200A	18.37				
	1	41x40		x									7205A	18.37				
	1	41x40		x									7206A	18.37				
	none	105x44					9397	19.9										
	1	19x36		x							9452	19.11						
	1	7x32		x							9501	5.7						
	1	7x32		x									9841	18.32				
	1	7x32		x									9841LS	18.32				
	1	7x32		x									9841NH	18.32				
	none	32x0.1					BE46349	19.9										
	1	7x32		x							82641	5.8						
	none	19x0.127							HMC0022	4.16								
	none	19x0.127							HMC0337	4.30								
	none	7x0.20							HMC0355	4.31								
	none	7x0.20							HMC0379	4.32								
	none	8x0.193							HMC0487	4.37								
3	none	105x44					9398	19.9										
	none	7x32		x							9533	4.6						
	none	7x32											9608	4.9				
	none	7x32		x									9925	4.11				
	none	7x32											83503	4.12				
	none	19x0.127							HMC0023	4.16								
	none	19x0.127							HMC0338	4.30								
	none	7x0.20							HMC0356	4.31								
	none	7x0.20							HMC0380	4.32								
	none	8x0.193							HMC0488	4.37								

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Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG 0.22 mm² **0.60**			**0.50** *(continued)*															
4	none	41x40							1192A	19.10								
	2		solid		1227A1	15.58												
	2		solid		1243A2	15.58												
	2	7x32		x							1419A	5.9						
	2	7x32		x											1509C*	19.14		
	2	7x32		x											1509ENH*	19.14		
	2	7x32		x											1802B	19.16		
	2	41x40		x													1902A	19.13
	2	41x40		x									7201A	18.37				
	2		solid	x							7933A	18.8						
	2	7x32		x									8102	5.17				
	2	7x32		x											8162*	5.25		
	2	7x32											8332	5.15				
	2	7x32		x							9502†	5.7						
	none	7x32		x							9534	4.6						
	none	7x32											9609	4.9				
	2	7x32		x											9729	5.20 18.33		
	2	7x32		x											9729LS**	18.33		
	2	7x32		x											9729NH	18.33		
	2	7x32		x									9829	5.16				
	2	7x32		x									9842	18.32				
	2	7x32		x									9842LS**	18.32				
	2	7x32		x									9842NH	18.32				
	none	7x32		x									9927	4.11				
	2	7x32		x							82502	5.8						
	none	7x32											83504	4.12				
	none	19x0.127							HMC0024	4.16								
	none	19x0.127							HMC0339	4.30								
	none	7x0.20							HMC0357	4.31								
	none	7x0.20							HMC0381	4.32								
	none	8x0.193							HMC0489	4.37								
	2	8x0.193							HMC0630	5.26								
5	none	7x32		x							9535	4.6						
	none	7x32											9610	4.9				
	none	7x32		x									9929	4.11				
	none	19x0.127							HMC0025	4.16								
	none	19x0.127							HMC0340	4.30								
	none	8x0.193							HMC0490	4.37								
6	3	7x32		x							1420A	5.9						
	3	7x32											3120A	18.27				
	3	41x40		x									7202A	18.37				
	3	7x32		x									8103	5.17				
	3	7x32		x											8163*	5.25		
	3	7x32											8333	5.15				
	3	7x32		x							9503	5.7						
	none	7x32		x							9536	4.6						
	none	7x32											9611	4.9				
	3	7x32		x							9680	5.9						
	3	7x32		x											9730	5.20		
	3	7x32		x									9830	5.16				
	3	7x32		x									9843	18.32				
	3	7x32		x									9843NH	18.32				
	none	7x32		x									9931	4.11				
	3	7x32		x							82503	5.8						
	none	7x32											83506	4.12				
	none	19x0.127							HMC0026	4.16								
	none	19x0.127							HMC0341	4.30								
	none	8x0.193							HMC0491	4.37								
	3	8x0.193							HMC0631	5.26								

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† Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration certification. Request quotations of RG/U cables not listed.

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Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG 0.22 mm² **0.60**			**0.50** *(continued)*															
7	none	7x32		x							9537	4.6						
	none	7x32											9612	4.9				
	none	7x32		x									9932	4.11				
	none	19x0.127							HMC0027	4.16								
	none	19x0.127							HMC0342	4.30								
	none	8x0.193							HMC0492	4.37								
8	4		solid		1229A1	15.58												
	4		solid		1245A2	15.58												
	4		solid	x							1300SB	7.5						
	4	7x32			1304A	19.22												
	4	7x32			1305A	19.22												
	4	7x32		x							1421A	5.9						
	4	7x32		x											1510C*	19.14		
	4		solid		1583A	15.52												
	4		solid		1583E	15.52												
	4		solid		1583ENH	15.52												
	4		solid		1585A	15.53												
	4	7x32			1592A	15.65												
	4		solid		1594A	15.52												
	4		solid	x							1633E	15.62						
	4		solid	x							1633ENH	15.62						
	4		solid	x									1633ES	15.63				
	4		solid	x									1633ENS	15.63				
	4		solid		1700A	15.49												
	4		solid		1700E	15.49												
	4		solid		1700ENH	15.49												
	4	7x32			1752A	15.65												
	4	7x32		x											1803F*	19.18		
	4	7x32			1875GB	15.64												
	4	41x40		x													1904A	19.13
	4	41x40		x									7203A	18.37				
	4		solid		7883A	15.64												
	4		solid		7918A	18.8												
	4		solid	x							7919A	18.8						
	4		solid	x									7921A	18.7				
	4		solid		7923A	18.9												
	4	7x32			7924A	18.10												
	4		solid		7928A	18.8												
	4		solid	x							7929A	18.7						
	4		solid		7987R	21.9												
	4		solid		7988P	15.68												
	4		solid		7988R	15.68 21.9												
	4		solid		7997A	15.52												
	4	7x32		x									8104	5.17				
	4	7x32		x											8164*	5.25		
	4	7x32											8334	5.15				
	4	7x32		x							9504	5.7						
	none	7x32		x							9538	4.6						
	none	7x32											9613	4.9				
	4	7x32		x							9681	5.9						
	4	7x32		x											9728	5.20		
	4	7x32		x									9831	5.16				
	4	7x32		x									9844	18.32				
	none	7x32		x									9933	4.11				
	4		solid		11700A	18.9												
	4	7x32		x							82504	5.8						
	4		solid		121700A**	18.9												
	4		solid		24566315	15.47												
	4		solid		24566345	15.47												
	4		solid		24566915	15.47												

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Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG 0.22 mm² **0.60**			**0.50** *(continued)*															
8	4		solid		24566945	15.47												
	4		solid		24567315	15.47												
	4		solid		24567345	15.47												
	4		solid		24567915	15.47												
	4		solid		24567945	15.47												
	4		solid		24568005	15.47												
	4		solid		24568015	15.47												
	4		solid		24568315	15.47												
	4		solid		24568331	15.47												
	4		solid		24570157	15.50												
	4		solid		24570161	15.50												
	4		solid		24570166	15.50												
	4		solid		24570452	15.50												
	4		solid		24570460	15.50												
	4		solid		24570800	15.50												
	4		solid		24570808	15.50												
	4		solid		24570810	15.50												
	4		solid		24570812	15.50												
	4		solid		24598301	15.50												
	4		solid		24598331	15.50												
	4		solid		BEB1212	18.7												
	4		solid	x									BEB3212	18.7				
	none	8x0.193							HMC0493	4.37								
	4	8x0.193							HMC0632	5.26								
9	none	7x32		x							9539	4.6						
	none	7x32											9614	4.9				
	none	7x32		x									9934	4.11				
10	5	7x32		x							1422A	5.9						
	5	7x32		x									8105	5.17				
	5	7x32		x											8165*	5.25		
	5	7x32											8335	5.15				
	5	7x32		x							9505	5.7						
	none	7x32		x							9540	4.6						
	none	7x32											9615	4.9				
	5	7x32		x									9832	5.16				
	none	7x32		x									9935	4.11				
	5	7x32		x							82505	5.8						
	5	8x0.193							HMC0633	5.26								
12	6	7x32		x							1423A	5.9						
	6	7x32		x											1511C*	19.14		
	6	41x40		x													1906A	19.13
	6	7x32		x									8106	5.17				
	6	7x32		x											8166*	5.25		
	6	7x32											8336	5.15				
	6	7x32		x							9506	5.7						
	6	7x32		x							9682	5.9						
	6	7x32		x											9731	5.20		
	6	7x32		x							82506	5.8						
	6	8x0.193							HMC0634	5.26								
14	7	7x32		x									8107	5.17				
	7	7x32		x											8167*	5.25		
	7	7x32											8337	5.15				
	7	7x32		x							9507	5.7						
15	none	7x32		x							9541	4.7						
	none	7x32											9616	4.9				
	none	7x32		x									9936	4.11				
16	8	7x32		x											1512C*	19.14		
	8	7x32		x											1512ENH*	19.14		
	8		solid		1667E	15.53												
	8	8x0.193							HMC0635	5.26								

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					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG 0.22 mm² **0.60**			**0.50** *(continued)*															
16	8		solid		1667ENH	15.53												
	8		solid	x							1668E	15.62						
	8		solid	x							1668ENH	15.62						
	8		solid	x									1668ES	15.63 21.6				
	8		solid	x									1668ENS	15.63				
	8	7x32		x											1805F*	19.18		
	8	7x32		x													1908A	19.13
	8	7x32		x									8108	5.17				
	8	7x32		x											8168*	5.25		
	8	7x32		x							9508	5.7						
18	9	7x32		x							9509	5.7						
	9	7x32		x							9683	5.9						
	9	7x32		x											9732	5.20		
	9	7x32		x							82509	5.8						
20	10	7x32		x									8110	5.17				
	10	7x32		x											8170*	5.25		
	10	7x32											8340	5.15				
	10	7x32		x							9510	5.7						
	none	7x32		x							9542	4.7						
	10	8x0.193							HMC0636	5.26								
22	11	7x32		x											9733	5.20		
24	12	7x32		x											1513C*	19.14		
	12	7x32		x											1806F*	19.18		
	12	41x40		x													1912A	19.13
	12	7x32		x											9734	5.20		
	12	8x0.193							HMC0637	5.26								
25	12+1/C	7x32		x							1424A	5.9						
	12+1/C	7x32		x									8112	5.17				
	12+1/C	7x32											8342	5.15				
	none	7x32		x							9543	4.7						
	none	7x32											9617	4.9				
	12+1/C	7x32		x							9684	5.9						
	none	7x32		x									9937	4.11				
30	15	7x32		x							1425A	5.9						
	15	7x32		x									8115	5.17				
	15	7x32		x											8175*	5.25		
	15	7x32											8345	5.15				
	15	7x32		x							9515	5.7						
	none	7x32		x							9544	4.7						
	15	7x32		x											9735	5.20		
32	16	7x32		x											1514C*	19.14		
	16	7x32		x											1850F*	19.18		
	16	41x40		x													1916A	19.13
34	17	7x32		x											9736	5.20		
36	18	7x32		x									8118	5.17				
	18	7x32		x											8178*	5.25		
	18	7x32											8348	5.15				
37	none	7x32											9618	4.9				
	none	7x32		x									9938	4.11				
38	19	7x32		x							9519	5.7						
	19	7x32		x											9737	5.20		
40	20	7x32		x											1515C*	19.14		
	none	7x32		x							9545	4.7						
48	24	7x32		x											1516C*	19.14		
	24	7x32		x											1852F*	19.18		
	24		solid		1700S6	15.55 21.5												

* Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
# Measures without a decimal point are in AWG sizes.

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG 0.22 mm² **0.60**			**0.50** *(continued)*															
48	24		solid		1701S6	15.55												
	24	41x40		x													1924A	19.13
50	25		solid		1232A1	15.58												
	25		solid		1864A	15.57												
	25		solid		1871A	15.57												
	25	7x32		x									8125	5.17				
	25	7x32		x											8185*	5.25		
	25	7x32											8355	5.15				
	25	7x32		x							9525	5.8						
	none	7x32		x							9546	4.7						
	none	7x32											9619	4.9				
	25		solid		24576125	15.54												
	25		solid		24577125	15.54												
	25		solid		25500027	15.56												
	25		solid		25500028	15.56												
	25		solid		NN00097	15.59												
52	26	7x32		x											1517C*	19.14		
54	27	7x32		x											9738	5.20		
64	32	7x32		x											1518C*	19.14		
	32	7x32		x											1854F*	19.18		
	32	41x40		x													1932A	19.13
100	50	7x32		x							9550	5.8						
	50		solid		NN00099	15.59												
104	52	7x32		x											1519C*	19.14		
200	100		solid	x	NN00101	15.59												
23 AWG 0.26 mm² **0.65**			**0.57**															
8	4		solid		1872A	15.48												
	4		solid		1874A	15.48												
	4		solid												1885ENH*	15.60		
	4		solid		7812E	15.46												
	4		solid		7812ENH	15.46												
	4		solid		7851A	15.44												
	4		solid		7851NH	15.44												
	4		solid		7852A	15.44												
	4		solid	x							7860ENH	15.61						
	4		solid	x									7860ENS	15.61				
	4		solid		7927A	18.11												
	4		solid		7931A	18.10												
	4		solid		7965E	15.51												
	4		solid		7965ENH	15.51												
	4		solid		7989P	15.67												
	4		solid		7989R	15.67 21.9												
	4		solid		11872A	18.11												
	4		solid		121872A**	18.11												
	4		solid		24586385	15.45												
	4		solid		24586985	15.45												
	4		solid		24587385	15.45												
	4		solid		24587985	15.45												
	4		solid		24588085	15.45												
16	8		solid												1887ENH*	15.60		
22 AWG 0.34 mm² **0.80**			**0.64**															
1	none	11x0.193							HMC0494	4.37								
2	1	7x30		x									1696A	19.16				
	1	7x30		x							3077ELS**	18.20						
	1	7x30		x							3077ENH	18.20						

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# Measures without a decimal point are in AWG sizes.

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG 0.34 mm² **0.80**			**0.64** *(continued)*															
2	1	7x30		x							3077F	18.20						
	1	7x30		x							3078F	18.21						
	1		solid										3079A	18.21				
	1		solid										3079ALS**	18.21				
	1		solid										3079ANH	18.21				
	1	7x30											3079E	18.21				
	1	7x30		x									3105A	18.28				
	1		solid		7701NH	18.30 21.7												
	1		solid	x							7703NH	18.30						
	none	7x30			8442	4.4												
	1	7x30		x							8451	19.11						
	1		solid	x							8761	5.10						
	1	19x34		x							9182	18.16						
	1	19x34		x							9182NH	18.16						
	1	7x30		x							9451	19.11						
	1	7x30		x							9451SB	7.3						
	none	7x30											83552	4.12				
	1	19x34		x							89182	18.16						
	none	19x0.160							HMC0028	4.16								
	none	19x0.160							HMC0343	4.30								
	none	7x0.25							HMC0358	4.31								
	none	7x0.25							HMC0382	4.32								
	none	11x01.93											HMC0444	4.35				
	none	11x01.93							HMC0495	4.37								
3	1+1/C	7x30		x									3106A	18.28				
	none	7x30			8443	4.4												
	none	7x30											9939	4.10				
	none	7x30											83553	4.12				
	none	19x0.160							HMC0029	4.16								
	none	19x0.160							HMC0344	4.30								
	none	7x0.25							HMC0359	4.31								
	none	7x0.25							HMC0383	4.32								
	none	11x01.93											HMC0445	4.35				
	none	11x01.93							HMC0496	4.37								
4	2	19x34		x											1504A	21.10		
	2		solid												1634A*	15.71		
	2	7x30		x											1814R*	19.15		
	2	7x30		x									3107A	18.28				
	2		solid		7702NH	18.30												
	2		solid	x							7704NH	18.30						
	2	7x30											8302	5.18				
	none	7x30			8444	4.4												
	2	7x30		x											8723	5.22 18.34		
	2	7x30		x											8723LS**	18.34		
	2	7x30		x											8723NH	18.34		
	2	7x30		x											8723SB	7.3		
	2	7x30		x											8728	19.11		
	none	7x30											9940	4.10				
	2		solid												9688*	15.71		
	none	7x30											83554	4.12				
	2	7x30		x											88723	18.34		
	2	7x0.25		x					BE43906	19.21								
	none	19x0.160							HMC0030	4.16								
	none	19x0.160							HMC0345	4.30								
	none	7x0.25							HMC0360	4.31								
	none	7x0.25							HMC0384	4.32								
	none	11x0.193											HMC0446	4.35				
	none	11x01.93							HMC0497	4.37								

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG 0.34 mm² **0.80**			**0.64** *(continued)*															
5	none	7x30			8445	4.4												
	none	7x30											9941	4.10				
	none	19x0.160							HMC0031	4.16								
	none	19x0.160							HMC0346	4.30								
	none	11x01.93											HMC0447	4.35				
	none	11x01.93							HMC0498	4.37								
6	3	7x30		x									3108A	18.28				
	3	7x30											8303	5.18				
	3	7x30		x											8777	5.22 18.33		
	3	7x30		x											8777LS**	18.34		
	3	7x30		x											8777NH	18.33		
	3	7x30		x											8777SB	7.3		
	none	7x30											9942	4.10				
	3	7x30		x											82777	5.22		
	none	7x30											83556	4.12				
	none	19x0.160							HMC0032	4.16								
	none	19x0.160							HMC0347	4.30								
	none	11x01.93											HMC0448	4.35				
	none	11x01.93							HMC0499	4.37								
7	none	7x30			9430	4.4												
	none	7x30											9943	4.10				
	none	19x0.160							HMC0033	4.16								
	none	19x0.160							HMC0348	4.30								
	none	11x01.93											HMC0449	4.35				
	none	11x01.93							HMC0500	4.37								
8	4	7x30		x											1815R*	19.15		
	4	7x30		x									3109A	18.28				
	4		solid		7922A	18.10												
	4	7x30											8304	5.18				
	none	7x30			9421	4.4												
	none	7x30											9944	4.10				
	none	11x01.93							HMC0501	4.37								
9	none	7x30			9423	4.4												
	none	7x30											9945	4.10				
	none	7x30											83559	4.12				
10	5	7x30											8305	5.18				
	none	7x30			8456	4.4												
	none	7x30											9946	4.10				
12	6	7x30		x											1816R*	19.15		
	6	7x30											8306	5.18				
	6	7x30		x											8778	5.22		
	none	7x30											83562	4.12				
14	7	7x30											8307	5.18				
15	none	7x30											9947	4.10				
16	8	7x30		x											1817R*	19.15		
	8	7x30											8308	5.18				
18	9	7x30		x											8774	5.22		
19	none	7x30											83569	4.12				
20	10	7x30											8310	5.18				
24	12	7x30		x											1818R*	19.15		
25	12+1/C	7x30		x									8312	5.18				
	none	7x30											9948	4.10				
30	15	7x30		x									8315	5.18				

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케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG 0.34 mm² **0.80**			**0.64** *(continued)*															
32	16	7x30		x											1819R*	19.15		
36	18	7x30											8318	5.18				
37	none	7x30											9949	4.10				
40	20	7x30		x											1820R*	19.15		
48	24	7x30		x											1821R*	19.15		
50	25	7x30											8325	5.18				
	none	7x30											9950	4.10				
52	26	7x30		x											1822R*	19.15		
64	32	7x30		x											1823R*	19.15		
20 AWG 0.50 mm² **0.90**			**0.81**															
1	none	16x0.193							HMC0502	4.37								
2	1	7x28			8205	5.4												
	none	26x34							8412	19.9								
	1	7x28		x							8762	5.10						
	1	7x28		x							9154	5.10						
	1	7x28											9207	18.15				
	1	7x28											9207NH	18.15				
	1	7x28		x									9463	18.13				
	1	7x28		x									9463DB	18.13				
	1	42x36											9463F	18.13				
	1	7x28		x									9463LS**	18.13				
	1	7x28		x									9463NH	18.13				
	1	7x28		x							9464	5.10						
	1	7x28		x									89463	18.14				
	1	7x28		x									129463**	18.14				
	1	7x28		x									139463**	18.14				
	1	7x28		x									189463**	18.14				
	none	19x0.203							HMC0034	4.16								
	none	19x0.203							HMC0349	4.30								
	none	16x0.20							HMC0361	4.31								
	none	16x0.20							HMC0385	4.32								
	none	16x0.193											HMC0451	4.35				
	none	16x0.193							HMC0503	4.37								
3	none	7x28		x							8772	4.8						
	none	19x0.203							HMC0035	4.16								
	none	19x0.203							HMC0350	4.30								
	none	7x28		x									1348A	18.29				
	none	16x0.20							HMC0362	4.31								
	none	16x0.20							HMC0386	4.32								
	none	16x0.193											HMC0452	4.35				
	none	16x0.193							HMC0504	4.37								
4	none	26x34							8424	19.10								
	2	7x28		x											9402	5.23		
	none	19x0.203							HMC0036	4.16								
	none	19x0.203							HMC0351	4.30								
	none	16x0.20							HMC0363	4.31								
	none	16x0.20							HMC0387	4.32								
	none	16x0.193											HMC0453	4.35				
	none	16x0.193							HMC0505	4.37								
	2		solid	x							YE00820	21.8						
	2		solid	x							YE00906	21.8						
	2	16x0.193							HMC0638	5.26								
5	none	19x0.203							HMC0037	4.16								
	none	19x0.203							HMC0352	4.30								
	none	16x0.193											HMC0454	4.35				
	none	16x0.193							HMC0506	4.37								

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG 0.50 mm² **0.90**			**0.81** *(continued)*															
6	3	7x28			9750	5.4												
	3	7x28		x											9873	5.23		
	none	19x0.203							HMC0038	4.16								
	none	19x0.203							HMC0353	4.30								
	none	16x0.193											HMC0455	4.35				
	none	16x0.193							HMC0507	4.37								
	3	16x0.193							HMC0639	5.26								
7	none	19x0.203							HMC0039	4.16								
	none	19x0.203							HMC0354	4.30								
	none	16x0.193											HMC0456	4.35				
	none	16x0.193							HMC0508	4.37								
8	4	7x28		x											9901*	15.70		
	4	7x28		x											89901*	15.70		
	none	16x0.193											HMC0457	4.35				
	none	16x0.193							HMC0509	4.37								
10	none	16x0.193											HMC0458	4.35				
	none	16x0.193							HMC0510	4.37								
12	6	7x28			9751	5.4												
	6	7x28		x											9874	5.23		
	none	16x0.193											HMC0459	4.35				
18	9	7x28			9752	5.4												
	9	7x28		x											9875	5.23		
30	15	7x28			9755	5.4												
18 AWG 0.75 mm² **1.20**			**1.02**															
2	1	7x26		x							3076ELS**	18.20						
	1	7x26		x							3076ENH	18.20						
	1	7x26		x							3076F	18.20						
	1	7x26		x									3072F	18.17				
	1	7x26		x									3073F	18.17				
	1	7x26		x									3074F	18.17				
	1	7x26			8461	5.4												
	1	16x30		x							8760	18.35						
	1	16x30		x							8760LS**	18.35						
	1	16x30		x							8760NH	18.35						
	none		solid		9571	4.13												
	none		solid	x							9574	4.13						
	1	16x30			9740	5.4												
	1	19x30			82740	5.5												
	1	19x30		x							82760	5.10						
	none	24x0.20			HMC0001	4.15												
	none	24x0.20			HMC0040	4.17												
	none	24x0.20			HMC0100	4.20												
	none	24x0.20									HMC0120	4.21						
	none	24x0.20							HMC0190	4.24								
	none	24x0.20			HMC0215	4.25												
	none	24x0.20							HMC0263	4.27								
	none	24x0.20			HMC0311	4.29												
	none	24x0.20							HMC0364	4.31								
	none	24x0.20							HMC0388	4.32								
	none	22x0.193											HMC0461	4.35				
	none	22x0.193							HMC0511	4.37								
	none	24x0.20			SHO0001**	7.8												
	none	24x0.20			SHO0028**	7.9												
	1	7x0.36							SHO0055	7.10								
	none	7x0.36							SHO0088	7.13								
3	none	16x30		x							8770	4.8						
	none	24x0.20			HMC0002	4.15												
	none	24x0.20			HMC0041	4.17												
	none	24x0.20			HMC0101	4.20												

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG 0.75 mm² **1.20**			**1.02** *(continued)*															
3	none	16x30		x							8770	4.8						
	none	24x0.20			HMC0002	4.15												
	none	24x0.20			HMC0041	4.17												
	none	24x0.20			HMC0101	4.20												
	none	24x0.20									HMC0121	4.21						
	none	24x0.20							HMC0191	4.24								
	none	24x0.20			HMC0216	4.25												
	none	24x0.20							HMC0264	4.27								
	none	24x0.20			HMC0312	4.29												
	none	24x0.20							HMC0365	4.31								
	none	24x0.20							HMC0389	4.32								
	none	22x0.193											HMC0462	4.35				
	none	22x0.193							HMC0512	4.37								
	none	24x0.20			SHO0002**	7.8												
	none	24x0.20			SHO0029**	7.9												
	none	7x0.36							SHO0089	7.13								
4	2	16x30			9156	5.4												
	none	19x30		x							9418	4.8						
	none		solid	x							9578	4.13						
	none	19x30			82489	4.4												
	none	24x0.20			HMC0003	4.15												
	none	24x0.20			HMC0042	4.17												
	none	24x0.20			HMC0102	4.20												
	none	24x0.20									HMC0122	4.21						
	none	24x0.20							HMC0192	4.24								
	none	24x0.20			HMC0217	4.25												
	none	24x0.20							HMC0265	4.27								
	none	24x0.20			HMC0313	4.29												
	none	24x0.20							HMC0366	4.31								
	none	24x0.20							HMC0390	4.32								
	none	22x0.193											HMC0463	4.35				
	none	22x0.193							HMC0513	4.37								
	2	7x0.36							SHO0056	7.10								
5	none	24x0.20			HMC0004	4.15												
	none	24x0.20			HMC0043	4.17												
	none	24x0.20			HMC0103	4.20												
	none	24x0.20									HMC0123	4.21						
	none	24x0.20							HMC0193	4.24								
	none	24x0.20			HMC0218	4.25												
	none	24x0.20							HMC0266	4.27								
	none	24x0.20			HMC0314	4.29												
	none	22x0.193											HMC0464	4.35				
	none	24x0.20			SHO0003**	7.8												
	none	24x0.20			SHO0030**	7.9												
	none	7x0.36							SHO0090	7.13								
6	3	16x30			8690	5.5												
	3	19x30		x											9773	5.23		
	none	24x0.20			HMC0056	4.18												
	none	24x0.20									HMC0124	4.21						
	none	24x0.20			HMC0219	4.25												
	none	24x0.20							HMC0267	4.27								
	none	22x0.193											HMC0465	4.35				
	3	22x0.193							HMC0640	5.26								
7	3	24x0.20			HMC0005	4.15												
	3	24x0.20			HMC0057	4.18												
	none	24x0.20									HMC0125	4.21						
	none	24x0.20							HMC0194	4.24								
	none	24x0.20			HMC0220	4.25												
	none	24x0.20							HMC0268	4.27								
	none	24x0.20			HMC0315	4.29												

** Armored
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케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG 0.75 mm² **1.20**			**1.02** *(continued)*															
7	none	22x0.193											HMC0466	4.35				
	none	7x0.36							SHO0091	7.13								
8	4	16x30			9157	5.5												
	none	24x0.20			HMC0058	4.18												
	none	22x0.193											HMC0467	4.35				
	4	7x0.36							SHO0057	7.10								
10	5	16x30			9159	5.5												
	none	24x0.20			HMC0059	4.18												
	none	22x0.193											HMC0468	4.35				
	none	7x0.36							SHO0092	7.13								
12	6	19x30		x											9774	5.23		
	none	24x0.20			HMC0060	4.18												
	none	22x0.193											HMC0469	4.35				
	none	7x0.36							SHO0093	7.13								
14	none	24x0.20			HMC0061	4.18												
	7	7x0.36							SHO0058	7.10								
	none	7x0.36							SHO0094	7.13								
16	none	24x0.20			HMC0062	4.18												
	none	7x0.36							SHO0095	7.13								
18	9	19x30		x											9775	5.23		
	none	24x0.20			HMC0063	4.18												
19	none	7x0.36							SHO0096	7.13								
20	none	24x0.20			HMC0064	4.18												
	10	7x0.36							SHO0059	7.10								
24	none	24x0.20			HMC0065	4.18												
	none	7x0.36							SHO0097	7.13								
25	none	24x0.20			HMC0066	4.18												
28	14	7x0.36							SHO0060	7.10								
38	19	7x0.36							SHO0061	7.10								
48	24	7x0.36							SHO0062	7.10								
17 AWG 1.00 mm² **1.40**			**1.15**															
2	none	32x0.20			HMC0006	4.15												
	none	32x0.20			HMC0044	4.17												
	none	32x0.20			HMC0104	4.20												
	none	32x0.20									HMC0126	4.21						
	none	32x0.20							HMC0195	4.24								
	none	32x0.20			HMC0221	4.25												
	none	32x0.20							HMC0269	4.27								
	none	32x0.20			HMC0316	4.29												
	none	32x0.20							HMC0367	4.31								
	none	32x0.20							HMC0391	4.32								
	none	32x0.20							HMC0403	4.33								
	none	32x0.20							HMC0423	4.34								
	none	20x0.243											HMC0471	4.35				
	none	20x0.243							HMC0514	4.37								
	none	20x0.243			HMC0524	4.38												
	none	32x0.20			SHO0004**	7.8												
	none	32x0.20			SHO0031**	7.9												
3	none	32x0.20			HMC0007	4.15												
	none	32x0.20			HMC0045	4.17												
	none	32x0.20			HMC0105	4.20												
	none	32x0.20									HMC0127	4.21						
	none	32x0.20							HMC0196	4.24								
	none	32x0.20			HMC0222	4.25												
	none	32x0.20							HMC0270	4.27								

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케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
17 AWG 1.00 mm² **1.40**			**1.15** *(continued)*															
3	none	32x0.20			HMC0317	4.29												
	none	32x0.20							HMC0368	4.31								
	none	32x0.20							HMC0392	4.32								
	none	32x0.20							HMC0404	4.33								
	none	32x0.20							HMC0424	4.34								
	none	20x0.243											HMC0472	4.35				
	none	20x0.243							HMC0515	4.37								
	none	20x0.243			HMC0525	4.38												
	none	32x0.20			SHO0005**	7.8												
	none	32x0.20			SHO0032**	7.9												
4	none	32x0.20			HMC0008	4.15												
	none	32x0.20			HMC0046	4.17												
	none	32x0.20			HMC0106	4.20												
	none	32x0.20									HMC0128	4.21						
	none	32x0.20							HMC0197	4.24								
	none	32x0.20			HMC0223	4.25												
	none	32x0.20							HMC0271	4.27								
	none	32x0.20			HMC0318	4.29												
	none	32x0.20							HMC0369	4.31								
	none	32x0.20							HMC0393	4.32								
	none	32x0.20							HMC0405	4.33								
	none	32x0.20							HMC0425	4.34								
	none	20x0.243											HMC0473	4.35				
	none	20x0.243							HMC0516	4.37								
	none	20x0.243			HMC0526	4.38												
	none	32x0.20			SHO0006**	7.8												
	none	32x0.20			SHO0033**	7.9												
5	none	32x0.20			HMC0009	4.15												
	none	32x0.20			HMC0047	4.17												
	none	32x0.20			HMC0107	4.20												
	none	32x0.20									HMC0129	4.21						
	none	32x0.20							HMC0198	4.24								
	none	32x0.20			HMC0224	4.25												
	none	32x0.20							HMC0272	4.27								
	none	32x0.20			HMC0319	4.29												
	none	32x0.20							HMC0406	4.33								
	none	32x0.20							HMC0426	4.34								
	none	20x0.243											HMC0474	4.35				
	none	20x0.243							HMC0517	4.37								
6	none	32x0.20			HMC0067	4.18												
	none	32x0.20									HMC0130	4.21						
	none	32x0.20			HMC0225	4.25												
	none	32x0.20							HMC0273	4.27								
	none	20x0.243											HMC0475	4.35				
7	none	32x0.20			HMC0010	4.15												
	none	32x0.20			HMC0068	4.18												
	none	32x0.20									HMC0131	4.21						
	none	32x0.20							HMC0199	4.24								
	none	32x0.20			HMC0226	4.25												
	none	32x0.20							HMC0274	4.27								
	none	32x0.20			HMC0320	4.29												
	none	20x0.243											HMC0476	4.35				
8	none	32x0.20			HMC0069	4.18												
	none	20x0.243											HMC0477	4.35				
10	none	32x0.20			HMC0070	4.18												
12	none	32x0.20			HMC0071	4.18												
14	none	32x0.20			HMC0072	4.18												
16	none	32x0.20			HMC0073	4.18												

** Armored
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
17 AWG 1.00 mm² **1.40**			**1.15** *(continued)*															
18	none	32x0.20			HMC0074	4.18												
20	none	32x0.20			HMC0075	4.18												
24	none	32x0.20			HMC0076	4.18												
25	none	32x0.20			HMC0077	4.18												
16 AWG 1.50 mm² **1.50**			**1.30**															
2	none	65x34			1307A	21.10												
	none	84x0.15			3999E	18.28												
	1	19x29			8471	5.5 18.30 21.8												
	1	19x29			8471LS**	18.31												
	1	19x29			8471NH	18.31												
	none	19x29			8677	4.5												
	1	19x29		x							8719	5.11 18.31						
	none		solid		9572	4.13												
	none		solid	x							9575	4.13						
	none	26x30			9716	21.10												
	1		solid										9860	18.15				
	1		solid										9860LS**	18.15				
	1		solid										9860NH	18.15				
	1	19x29			85102	18.31												
	none	25x0.23			BE46382	19.19												
	none	30x0.25			HMC0011	4.15												
	none	30x0.25			HMC0048	4.17												
	none	30x0.25			HMC0108	4.20												
	none	30x0.25									HMC0132	4.21						
	none	30x0.25							HMC0200	4.24								
	none	30x0.25			HMC0227	4.25												
	none	30x0.25							HMC0275	4.27								
	none	30x0.25			HMC0321	4.29												
	none	30x0.25							HMC0370	4.31								
	none	30x0.25							HMC0394	4.32								
	none	30x0.25							HMC0407	4.33								
	none	30x0.25							HMC0427	4.34								
	none	28x0.245											HMC0479	4.36				
	none	28x0.245							HMC0518	4.38								
	none	28x0.245			HMC0527	4.38												
	none	30x0.25			SHO0007**	7.8												
	none	30x0.25			SHO0034**	7.9												
	none	7x0.52			SHO0063	7.11												
	none	7x0.52							SHO0098	7.12								
3	none	30x0.25			HMC0012	4.15												
	none	30x0.25			HMC0049	4.17												
	none	30x0.25			HMC0109	4.20												
	none	30x0.25									HMC0133	4.21						
	none	30x0.25							HMC0201	4.24								
	none	30x0.25			HMC0228	4.25												
	none	30x0.25							HMC0276	4.27								
	none	30x0.25			HMC0322	4.29												
	none	30x0.25							HMC0371	4.31								
	none	30x0.25							HMC0395	4.32								
	none	30x0.25							HMC0408	4.33								
	none	30x0.25							HMC0428	4.34								
	none	28x0.245											HMC0480	4.36				
	none	28x0.245							HMC0519	4.38								
	none	28x0.245			HMC0528	4.38												
	none	30x0.25			SHO0008**	7.8												
	none	30x0.25			SHO0035**	7.9												

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Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG 1.50 mm² **1.50**			**1.30** *(continued)*															
3	none	7x0.52			SHO0064	7.11												
	none	7x0.52							SHO0099	7.12								
4	none	65x34			1308A	21.10												
	none		solid	x							9579	4.13						
	none	30x0.25			HMC0013	4.15												
	none	30x0.25			HMC0050	4.17												
	none	30x0.25			HMC0110	4.20												
	none	30x0.25									HMC0134	4.21						
	none	30x0.25							HMC0202	4.24								
	none	30x0.25			HMC0229	4.25												
	none	30x0.25							HMC0277	4.27								
	none	32x0.25			HMC0323	4.29												
	none	30x0.25							HMC0372	4.31								
	none	30x0.25							HMC0396	4.32								
	none	30x0.25							HMC0409	4.33								
	none	30x0.25							HMC0429	4.34								
	none	28x0.245											HMC0481	4.36				
	none	28x0.245							HMC0520	4.38								
	none	28x0.245			HMC0529	4.38												
	none	30x0.25			SHO0009**	7.8												
	none	30x0.25			SHO0036**	7.9												
	none	7x0.52			SHO0065	7.11												
	none	7x0.52							SHO0100	7.12								
5	none	30x0.25			HMC0014	4.15												
	none	30x0.25			HMC0051	4.17												
	none	30x0.25			HMC0111	4.20												
	none	30x0.25									HMC0135	4.21						
	none	30x0.25							HMC0203	4.24								
	none	30x0.25			HMC0230	4.25												
	none	30x0.25							HMC0278	4.27								
	none	30x0.25							HMC0410	4.33								
	none	32x0.25			HMC0324	4.29												
	none	30x0.25							HMC0430	4.34								
	none	28x0.245											HMC0482	4.36				
	none	28x0.245							HMC0521	4.38								
	none	30x0.25			SHO0010**	7.8												
	none	30x0.25			SHO0037**	7.9												
	none	7x0.52			SHO0066	7.11												
	none	7x0.52							SHO0101	7.12								
6	none	30x0.25			HMC0078	4.18												
	none	30x0.25									HMC0136	4.21						
	none	30x0.25			HMC0231	4.25												
	none	30x0.25							HMC0279	4.27								
	none	28x0.245											HMC0483	4.36				
7	none	30x0.25			HMC0015	4.15												
	none	30x0.25			HMC0079	4.18												
	none	30x0.25									HMC0137	4.21						
	none	30x0.25							HMC0204	4.24								
	none	30x0.25			HMC0232	4.25												
	none	30x0.25							HMC0280	4.27								
	none	32x0.25			HMC0325	4.29												
	none	30x0.25			SHO0011**	7.8												
	none	30x0.25			SHO0038**	7.9												
	none	7x0.52			SHO0067	7.11												
	none	7x0.52							SHO0102	7.12								
8	none	30x0.25			HMC0080	4.18												
	none	30x0.25									HMC0138	4.21						
	none	30x0.25			HMC0233	4.25												
	none	30x0.25							HMC0281	4.27								

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Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG 1.50 mm² **1.50**			**1.30** *(continued)*															
10	none	30x0.25			HMC0081	4.18												
	none	30x0.25									HMC0139	4.21						
	none	30x0.25			HMC0234	4.25												
	none	30x0.25							HMC0282	4.27								
	none	7x0.52			SHO0068	7.11												
	none	7x0.52							SHO0103	7.12								
12	none	30x0.25			HMC0082	4.18												
	none	30x0.25									HMC0140	4.21						
	none	30x0.25			HMC0235	4.25												
	none	30x0.25							HMC0283	4.27								
	none	30x0.25			SHO0012**	7.8												
	none	30x0.25			SHO0039**	7.9												
	none	7x0.52							SHO0104	7.12								
14	none	30x0.25			HMC0083	4.18												
	none	30x0.25									HMC0141	4.21						
	none	30x0.25			HMC0236	4.25												
	none	30x0.25							HMC0284	4.27								
	none	7x0.52			SHO0069	7.11												
	none	7x0.52							SHO0105	7.12								
16	none	30x0.25			HMC0084	4.18												
	none	30x0.25									HMC0142	4.21						
	none	30x0.25			HMC0237	4.25												
	none	30x0.25							HMC0285	4.27								
	none	7x0.52							SHO0106	7.12								
18	none	30x0.25			HMC0085	4.18												
	none	30x0.25									HMC0143	4.21						
	none	30x0.25			HMC0238	4.25												
	none	30x0.25							HMC0286	4.27								
19	none	7x0.52			SHO0070	7.11												
	none	7x0.52							SHO0107	7.12								
20	none	30x0.25			HMC0086	4.19												
	none	30x0.25									HMC0144	4.21						
	none	30x0.25			HMC0239	4.25												
	none	30x0.25							HMC0287	4.27								
24	none	30x0.25			HMC0087	4.19												
	none	30x0.25									HMC0145	4.21						
	none	30x0.25			HMC0240	4.25												
	none	30x0.25							HMC0288	4.27								
	none	7x0.52			SHO0071	7.11												
	none	7x0.52							SHO0108	7.12								
30	none	30x0.25			HMC0241	4.25												
	none	30x0.25							HMC0289	4.27								
14 AWG 2.50 mm² **1.85**			**1.63**															
2	none	105x34			1309A	21.11												
	1	41x30			8473	5.5												
	none	19x27			8675	4.5												
	1	19x27		x							8720	5.11						
	none		solid		9580	4.14												
	none		solid	x							9581	4.14						
	none	50x0.25			HMC0052	4.17												
	none	50x0.25			HMC0112	4.20												
	none	50x0.25									HMC0146	4.21						
	none	50x0.25							HMC0205	4.24								
	none	50x0.25			HMC0242	4.25												
	none	50x0.25							HMC0290	4.27								
	none	50x0.25			HMC0326	4.29												

* Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid. • ** Armored
# Measures without a decimal point are in AWG sizes.

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG 2.50 mm² **1.85**			**1.63** *(continued)*															
2	none	50x0.25							HMC0373	4.31								
	none	50x0.25							HMC0397	4.32								
	none	50x0.25							HMC0411	4.33								
	none	50x0.25							HMC0431	4.34								
	none	48x0.243							HMC0522	4.38								
	none	50x0.25			SHO0013**	7.8												
	none	50x0.25			SHO0040**	7.9												
	none	7x0.68			SHO0072	7.11												
	none	7x0.68							SHO0109	7.12								
3	none	50x0.25			HMC0053	4.17												
	none	50x0.25			HMC0113	4.20												
	none	50x0.25									HMC0147	4.21						
	none	50x0.25							HHMC0206	4.24								
	none	50x0.25			HMC0243	4.25												
	none	50x0.25							HMC0291	4.27								
	none	50x0.25			HMC0327	4.29												
	none	50x0.25							HMC0374	4.31								
	none	50x0.25							HMC0398	4.32								
	none	50x0.25							HMC0412	4.33								
	none	50x0.25							HMC0432	4.34								
	none	48x0.243											HMC0484	4.36				
	none	48x0.243							HMC0523	4.38								
	none	48x0.243			HMC0530	4.38												
	none	50x0.25			SHO0014**	7.8												
	none	50x0.25			SHO0041**	7.9												
	none	7x0.68			SHO0073	7.11												
	none	7x0.68							SHO0110	7.12								
4	none	105x34			1310A	21.11												
	none	104x34			1810A	19.19												
	none	50x0.25			HMC0054	4.17												
	none	50x0.25			HMC0114	4.20												
	none	50x0.25									HMC0148	4.21						
	none	50x0.25							HMC0207	4.24								
	none	50x0.25			HMC0244	4.26												
	none	50x0.25							HMC0292	4.27								
	none	50x0.25			HMC0328	4.29												
	none	50x0.25							HMC0375	4.31								
	none	50x0.25							HMC0399	4.32								
	none	50x0.25							HMC0413	4.33								
	none	50x0.25							HMC0433	4.34								
	none	48x0.243											HMC0485	4.36				
	none	50x0.25			SHO0015**	7.8												
	none	50x0.25			SHO0042**	7.9												
	none	7x0.68			SHO0074	7.11												
	none	7x0.68							SHO0111	7.12								
5	none	50x0.25			HMC0055	4.17												
	none	50x0.25			HMC0115	4.20												
	none	50x0.25									HMC0149	4.22						
	none	50x0.25							HMC0208	4.24								
	none	50x0.25			HMC0245	4.26												
	none	50x0.25							HMC0293	4.27								
	none	50x0.25			HMC0329	4.29												
	none	50x0.25							HMC0414	4.33								
	none	50x0.25							HMC0434	4.34								
	none	50x0.25			SHO0016**	7.8												
	none	50x0.25			SHO0043**	7.9												
	none	7x0.68			SHO0075	7.11												
6	none	50x0.25			HMC0089	4.19												
	none	50x0.25									HMC0150	4.22						
	none	50x0.25			HMC0246	4.26												
	none	50x0.25							HMC0294	4.28								

** Armored
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
12 AWG 4.00 mm² **2.40**			**2.05**															
2	none	165x34			1311A	21.11												
	1	65x30			8477	5.5												
	none	19x25			8673	5.4												
	1	19x25		x							8718	5.11						
	none		solid		9582	4.14												
	none		solid	x							9583	4.14						
	none	56x0.30									HMC0153	4.22						
	none	56x0.30							HMC0210	4.24								
	none	56x0.30			HMC0251	4.26												
	none	56x0.30							HMC0299	4.28								
	none	56x0.30							HMC0376	4.31								
	none	56x0.30							HMC0400	4.32								
	none	56x0.30							HMC0415	4.33								
	none	56x0.30							HMC0435	4.34								
	none	56x0.30			SHO0018*	7.8												
	none	56x0.30			SHO0045*	7.9												
	none	56x0.30			SHO0076	7.11												
	none	56x0.30							SHO0112	7.12								
3	none	56x0.30			HMC0116	4.20												
	none	56x0.30									HMC0154	4.22						
	none	56x0.30							HMC0211	4.24								
	none	56x0.30			HMC0252	4.26												
	none	56x0.30							HMC0300	4.28								
	none	56x0.30							HMC0377	4.31								
	none	56x0.30							HMC0401	4.32								
	none	56x0.30							HMC0416	4.33								
	none	56x0.30							HMC0436	4.34								
	none	56x0.30			SHO0019**	7.8												
	none	56x0.30			SHO0046**	7.9												
	none	56x0.30			SHO0077	7.11												
	none	56x0.30							SHO0113	7.12								
4	none	165x34			1312A	21.11												
	none	56x0.30			HMC0117	4.20												
	none	56x0.30									HMC0155	4.22						
	none	56x0.30							HMC0212	4.24								
	none	56x0.30			HMC0253	4.26												
	none	56x0.30							HMC0301	4.28								
	none	56x0.30							HMC0378	4.31								
	none	56x0.30							HMC0402	4.32								
	none	56x0.30			SHO0020**	7.8												
	none	56x0.30							HMC0417	4.33								
	none	56x0.30							HMC0437	4.34								
	none	56x0.30			SHO0047**	7.9												
	none	56x0.30			SHO0078	7.11												
	none	56x0.30							SHO0114	7.12								
5	none	56x0.30									HMC0156	4.22						
	none	56x0.30							HMC0213	4.24								
	none	56x0.30			HMC0254	4.26												
	none	56x0.30							HMC0302	4.28								
	none	56x0.30							HMC0418	4.33								
	none	56x0.30			SHO0021**	7.8												
	none	56x0.30			SHO0048**	7.9												
	none	56x0.30							HMC0438	4.34								
6	none	56x0.30									HMC0157	4.22						
	none	56x0.30			HMC0255	4.26												
	none	56x0.30							HMC0303	4.28								
7	none	56x0.30									HMC0158	4.22						
	none	56x0.30							HMC0214	4.24								
	none	56x0.30			HMC0256	4.26												
	none	56x0.30							HMC0304	4.28								

** Armored
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
11 AWG 4.20 mm² **2.60**			**2.30**															
3	none	56x0.30			BE46380	19.20												
10 AWG 6.00 mm² **2.95**			**2.60**															
2	none	259x34			1313A	21.11												
	none	19x23			8678	4.5												
	none	84x0.30									HMC0159	4.22						
	none	84x0.30			HMC0257	4.26												
	none	84x0.30							HMC0305	4.28								
	none	84x0.30							HMC0419	4.33								
	none	84x0.30							HMC0439	4.34								
	none	84x0.30			SHO0022**	7.8												
	none	84x0.30			SHO0049**	7.9												
	none	84x0.30			SHO0079	7.11												
	none	84x0.30							SHO0115	7.12								
3	none	84x0.30			HMC0118	4.20												
	none	84x0.30									HMC0160	4.22						
	none	84x0.30			HMC0258	4.26												
	none	84x0.30							HMC0306	4.28								
	none	84x0.30							HMC0420	4.33								
	none	84x0.30							HMC0440	4.34								
	none	84x0.30			SHO0023**	7.8												
	none	84x0.30			SHO0050**	7.9												
	none	84x0.30			SHO0080	7.11												
	none	84x0.30							SHO0116	7.12								
4	none	84x0.30			HMC0119	4.20												
	none	84x0.30									HMC0161	4.22						
	none	84x0.30			HMC0259	4.26												
	none	84x0.30							HMC0307	4.28								
	none	84x0.30							HMC0421	4.33								
	none	84x0.30							HMC0441	4.34								
	none	84x0.30			SHO0024**	7.8												
	none	84x0.30			SHO0051**	7.9												
	none	84x0.30			SHO0081	7.11												
	none	84x0.30							SHO0117	7.12								
5	none	84x0.30									HMC0162	4.22						
	none	84x0.30			HMC0260	4.26												
	none	84x0.30							HMC0308	4.28								
	none	84x0.30							HMC0422	4.33								
	none	84x0.30							HMC0442	4.34								
6	none	84x0.30									HMC0163	4.22						
	none	84x0.30			HMC0261	4.26												
	none	84x0.30							HMC0309	4.28								
7	none	84x0.30									HMC0164	4.22						
	none	84x0.30			HMC0262	4.26												
	none	84x0.30							HMC0310	4.28								
8 AWG 10.00 mm² **3.26**																		
2	none	80x0.40									HMC0165	4.22						
	none	80x0.40			SHO0025**	7.8												
	none	80x0.40			SHO0052**	7.9												
	none	80x0.40			SHO0082	7.11												
	none	80x0.40							SHO0145	7.12								
3	none	80x0.40									HMC0166	4.22						
	none	80x0.40			SHO0026**	7.8												
	none	80x0.40			SHO0053**	7.9												
	none	80x0.40			SHO0083	7.11												
4	none	80x0.40									HMC0167	4.22						
	none	80x0.40			SHO0027**	7.8												
	none	80x0.40			SHO0054**	7.9												
	none	80x0.40			SHO0084	7.11												
	none	80x0.40							SHO0146	7.12								

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi-Conductor and Paired Cables

No. of Cond.	No. of Pairs	Stranded (mm/ AWG#)	Solid (mm)	Drain Wire	Unshielded		Overall Spiral		Overall Braid		Overall Foil		Overall Foil/Braid		Individual Foil		Individual Braid	
					Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
8 AWG 10.00 mm² **3.26** *(continued)*																		
5	none	80x0.40									HMC0168	4.22						
6 AWG 16.00 mm² **4.12**																		
2	none	128x0.40									HMC0169	4.22						
3	none	128x0.40									HMC0170	4.22						
	none	126x0.40			SHO0085	7.11												
4	none	128x0.40									HMC0171	4.22						
5	none	128x0.40									HMC0172	4.22						
4 AWG 25.00 mm² **5.19**																		
2	none	200x0.40									HMC0173	4.22						
3	none	200x0.40									HMC0174	4.22						
	none	196x0.40			SHO0086	7.11												
4	none	200x0.40									HMC0175	4.22						
2 AWG 35.00 mm² **6.54**																		
2	none	280x0.40									HMC0176	4.22						
3	none	280x0.40									HMC0177	4.22						
	none	276x0.40			SHO0087	7.11												
4	none	280x0.40									HMC0178	4.23						
1 AWG 50 mm² **7.35**																		
2	none	400x0.40									HMC0179	4.23						
3	none	400x0.40									HMC0180	4.23						
4	none	400x0.40									HMC0181	4.23						
2/0 AWG 70 mm² **9.26**																		
2	none	356x0.50									HMC0182	4.23						
3	none	356x0.50									HMC0183	4.23						
4	none	356x0.50									HMC0184	4.23						
3/0 AWG 95 mm² **10.4**																		
2	none	485x0.50									HMC0185	4.23						
3	none	485x0.50									HMC0186	4.23						
4	none	485x0.50									HMC0187	4.23						
4/0 AWG 120 mm² **11.7**																		
2	none	614x0.50									HMC0188	4.23						
3	none	614x0.50									HMC0189	4.23						

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Combination Cables

Unshielded, Shielded and Partially Shielded

No. of Cond.	Part No.	Description		Shielding	Compo-nent	Page
		Conductor / Gage	mm			
Combination Gages						
3	1306SB	1 co - 18 AWG 1 pr - 18 AWG	1.00 1.20	95% BC Braid Unshielded	CCTV Audio	7.5
4	1502R	1 pr - 22 AWG 2 cdr - 18 AWG	0.80 1.20	Beldfoil® Unshielded	Data Power	21.7
	3082A	2 cdr - 15 AWG 2 cdr - 18 AWG	1.70 1.24	Beldfoil® each pair plus overall braid	Power Data	18.22
	3082F	2 cdr - 15 AWG 2 cdr - 18 AWG	1.70 1.20	Beldfoil® each pair plus overall braid	Power Data	18.23
	3082K	2 cdr - 16 AWG 2 cdr - 16 AWG	1.47 1.47	Unshielded	Power Data	18.24
	3082KP	2 cdr - 16 AWG 2 cdr - 16 AWG	1.47 1.47	Unshielded	Power Data	18.24
	3083A	2 cdr - 15 AWG 2 cdr - 18 AWG	1.70 1.24	Beldfoil® each pair plus overall braid	Power Data	18.23
	3084A	2 cdr - 22 AWG 2 cdr - 24 AWG	0.78 0.61	Beldfoil® each pair plus overall braid	Power Data	18.23
	3084F	2 cdr - 22 AWG 2 cdr - 24 AWG	0.76 0.58	Beldfoil® each pair plus overall braid	Power Data	18.23
	3085A	2 cdr - 22 AWG 2 cdr - 24 AWG	0.78 0.61	Beldfoil® each pair plus overall braid	Power Data	18.24
	3086A	2 cdr - 16 AWG 2 cdr - 20 AWG	1.47 0.94	Beldfoil® each pair	Power Data	18.25
	3087A	2 cdr - 22 AWG 2 cdr - 22 AWG	0.78 0.78	Beldfoil® each pair	Power Data	18.25
	3124A	2 cdr - 18 AWG 2 cdr - 22 AWG	1.20 0.76	Overall Beldfoil®	Power Data	18.26
	3125A	2 cdr - 16 AWG 2 cdr - 22 AWG	1.50 0.76	Overall Beldfoil®	Power Data	18.26
	7895A	2 cdr - 20 AWG 2 cdr - 18 AWG	0.94 1.24	Beldfoil® each pair plus overall braid	Power Data	18.24
	7896A	2 cdr - 16 AWG 2 cdr - 18 AWG	1.47 1.24	Beldfoil® each pair plus overall braid	Power Data	18.22
	7897A	2 cdr - 15 AWG 2 cdr - 18 AWG	1.70 1.24	Beldfoil® each pair plus overall braid	Power Data	18.22
	7900A	2 cdr- 16 AWG 2 cdr - 18 AWG	1.47 1.24	Unshielded	Power Data	18.22

No. of Cond.	Part No.	Description		Shielding	Compo-nent	Page
		Conductor / Gage	mm			
Combination Gages						
5	1349A	2 cdr - 18 AWG 3 cdr - 20 AWG	1.22 0.96	Overall Beldfoil®	Power Data	18.29
	BE43908	1 pr - 26 AWG 3 cdr - 18 AWG	0.48 1.15	90% BC Braid Unshielded	Audio Power	19.19
6	3126A	2 cdr - 16 AWG 2 cdr - 22 AWG 2 cdr - 12 AWG	1.50 0.76 2.41	Overall Beldfoil®	Control Data Power	18.26
8	9891	3 pr - 22 AWG 1 pr - 20 AWG	0.76 0.96	Beldfoil® each pair plus foil/braid overall	– –	15.70
	9903	3 pr - 28 AWG 1 pr - 24 AWG	0.38 0.61	Beldfoil® each pair plus foil/braid overall	– –	15.70
9	3119A	3 cdr - 18 AWG 3 pr - 24 AWG	1.22 0.61	Overall Beldfoil® plus overall braid	Control Power	18.27
	7911A	4 pr - 24 AWG 1 co - 18 AWG	0.50 1.00	Unshielded Duobond+/Braid	Data Coax	21.6
10	1347A	2 co - 20 AWG 4 pr - 22 AWG	0.80 0.80	Duofoil®/Braid Beldfoil®	2xVideo 4xAudio	19.21
12	7952A	4 pr - 24 AWG 4 cdr - 14 AWG	0.50 1.85	Unshielded	Data 4xCDR	21.6
	9689	2 pr - 22 AWG 4 pr - 22 AWG	0.64 0.64	Beldfoil® each pair + Braid Unshielded	– –	15.72
13	YR48902	4 pr - 24 AWG 1 co - 20 AWG 1pr/2cdr - 1502R	0.50 0.80 –	Unshielded Duofoil®/Braid Unshielded	Data Coax Control	21.5
18	7876S	8 pr - 24 AWG 2 co - 18 AWG	0.50 1.00	Unshielded Duobond+/Braid	2xData 2xCoax	21.4
20	7878S	8 pr - 24 AWG 2 co - 18 AWG 2 fi - 62.5/ 125/900	0.50 1.00 –	Unshielded Duobond+/Braid	2xData 2xCoax 2xFiber	21.4

co = Coax • cdr = Conductor(s) • pr = Pair • fi = Fiber

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Coaxial Cables

No. of Cond.	Material	Stranded (mm)	Solid (mm)	Nom. Imp. Ohm	CDR Diameter (mm)	Braid			Double Braid			Cu-foil/Braid			
						Part No.		Page	Part No.		Page	Part No.		Page	
30 AWG		**0.30**	**0.25**												
1	TCB	7x38		75	0.31	7500A	95% TC	18.38							
	SPCSW	7x0.10		50	0.30	MRG178	96% SPC	6.3							
	SPCSW	7x0.10		75	0.30	MRG179	95% SPC	6.5							
	SPCSW	7x0.10		95	0.30	MRG180	91% SPC	6.6							
	SPCSW	7x0.10		75	0.30	MRG187	95% SPC	6.5							
	SPCSW	7x0.10		95	0.30	MRG195	91% SPC	6.6							
	SPCSW	7x0.10		50	0.30	MRG196	96% SPC	6.3							
2	TC	7x38		75	0.31	1808A	90% TC	21.12							
3	TC	7x38		75	0.30										
4	TC	7x38		75	0.30										
5	TC	7x38		75	0.30										
29 AWG			**0.28**												
1	SPCCS		solid	50	0.28	1674A•	100% CT	9.32							
28.5 AWG			**0.30**												
1	BC		solid	75	0.31										
26 AWG		**0.50**	**0.40**												
1	CCS		solid	75	0.40										
	SPCSW	7x0.17		50	0.51	MRG188	96% SPC	6.3							
	SPCSW	7x0.17		50	0.51	MRG316	95% SPC	6.3							
3	BC	7x34		75	0.48										
4	BC	7x34		75	0.48										
5	BC	7x34		75	0.48										
25 AWG		**0.55**	**0.45**												
1	BC	19x37		75	0.53										
	BC	19x38		75	0.48	7501A	95% TC	18.38							
	BC		solid	50	0.46										
3	TC		solid	75	0.46										
	TC		solid	75	0.46										
4	TC		solid	75	0.46										
	TC		solid	75	0.46										
5	TC		solid	75	0.46										
	TC		solid	75	0.46										
6	TC		solid	75	0.46										
	TC		solid	75	0.46										
24 AWG			**0.50**												
1	BC		solid	50	0.50										
	SPCCS		solid	50	0.50	1671A•	100% CT	9.32							
23 AWG			**0.58**												
1	BC		solid	75	0.58										
	CCS		solid	75	0.58	8241	95% BC	19.25							
	BC		solid	75	0.58				BE43187	90% TC + 85% TC	19.28				
	BC		solid	75	0.58				H106T00	92% TC	9.26				
	BC		solid	75	0.58				H106T01	92% TC	9.26				
	CCS		solid	75	0.58	MRG5900	95% BC	9.26							

• Composite Braid

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Coaxial Cables

Duobond®/Braid			Duobond® II/Braid			Duobond® IV			Duobond Plus®/Braid			Duofoil®/Braid			Beldfoil®/Braid		
Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page
30 AWG																	
												1520A	90% TC	19.26			
												1521A	90% TC	19.26			
												1522A	90% TC	19.26			
29 AWG																	
28.5 AWG																	
179DT	95% TC	19.27 21.12															
26 AWG																	
												H122A00	60% TC	9.25			
												1406B	93% TC	19.26			
												1407B	93% TC	19.26			
												1417B	93% TC	19.26			
25 AWG																	
												1865A	95% TC	19.27			
															7805	90% TC	9.27
1277R	95% TC	19.31 21.13															
1281S3	95% TC	19.33 21.13															
1278R	95% TC	19.31 21.13															
1281S4	95% TC	19.33 21.13															
1279R	95% TC	19.31 21.13															
1281S5	95% TC	19.33 21.13															
1280R	95% TC	19.31 21.13															
1281S6	95% TC	19.33 21.13															
24 AWG																	
															7805R	93% TC	9.27
23 AWG																	
												1855A	95% TC	19.27			

See page 2.33 for key to abbreviations used in this table.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Coaxial Cables

No. of Cond.	Material	Stranded (mm)	Solid (mm)	Nom. Imp. Ohm	CDR Diameter (mm)	Braid			Double Braid			Cu-foil / Braid		
						Part No.		Page	Part No.		Page	Part No.		Page
23 AWG			**0.58** *(continued)*											
3	BC		solid	75	0.58									
	TC		solid	75	0.58									
4	TC		solid	75	0.58									
5	BC		solid	75	0.58									
	TC		solid	75	0.58									
6	BC		solid	75	0.58									
	TC		solid	75	0.58									
10	TC		solid	75	0.58									
12	TC		solid	75	0.58									
22 AWG		**0.80**	**0.60**											
1	BCC	7x29		75	0.76				1505F	98% TC	19.28 21.12			
	TC		solid	75	0.64									
	BC	19x34		75	0.79	7502A	95% TC	18.38						
	BC	7x30		75	0.76	9259	95% BC	19.25						
	BC		solid	75	0.65									
	BC		solid	75	0.65									
	BC		solid	75	0.65									
	SPCSW		solid	75	0.64	MRG140	95% SPC	6.5						
	SPCSW		solid	75	0.64	MRG302	95% SPC	6.5						
20 AWG		**0.90**	**0.80**											
1	BC		solid	75	0.81									
	BC		solid	75	0.81									
	SPC	19x0.36		75	0.99				7783AF*	90% SPC + 80% BC	19.23			
	BC		solid	75	0.81				8281	98% TC	19.25			
	SPCCS		solid	75	0.81									
	TC	19x32		50	0.94									
	TC	19x32		50	0.94									
	TC	19x32		50	0.94									
	BC		solid	75	0.80									
	BC		solid	75	0.80									
	BC		solid	75	0.80									
	BC		solid	75	0.80									
	BC		solid	75	0.80							H121C00	45% BC	9.24
2	BC		solid	75	0.80									
3	BC		solid	75	0.81									
	BC		solid	75	0.81									
4	BC		solid	75	0.81									
5	BC		solid	75	0.81									
	BC		solid	75	0.81									
6	BC		solid	75	0.81									
10	BC		solid	75	0.81									
19 AWG		**1.00**	**0.90**											
1	SPCCS		solid	50	0.90	1673A•	100% CT	9.32						
	BC	7x27		75	1.00				1694F	99% TC	19.29			
	BC		solid	50	0.90									
	SPCSW		solid	50	0.94	MRG303	95% SPC	6.3						
	SPCSW		solid	50	0.94				MRG142	96% SPC	6.3			
	TC	19x0.18		50	0.91	MRG5800	93% TC	9.31						

• Composite Braid
* Triax

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Coaxial Cables

Duobond®/Braid			Duobond® II/Braid			Duobond® IV			Duobond Plus®/Braid			Duofoil®/Braid			Beldfoil®/Braid		
Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page
23 AWG																	
												1855S3	95% TC	19.33			
												7787A	95% TC	19.31			
												7788A	95% TC	19.31			
												1855S5	95% TC	19.33			
												7789A	95% TC	19.31			
												1855S6	95% TC	19.33			
												7790A	95% TC	19.31			
												7791A	95% TC	19.31			
												7792A	95% TC	19.31			
22 AWG																	
												1855ENH	90% TC	19.27			
												H123A00	44% TC	9.25			
												H123A01	88% TC	9.25			
												H123A02	88% TC	9.25			
20 AWG																	
												1505A	95% TC	19.28			
												1505ANH	95% TC	19.28			
									9167	95% AL	9.26						
			9907	93% TC	15.69 18.12												
			82907	93% TC	15.69												
			89907	93% TC	18.12 15.69												
												H121A00	40% TC	9.24			
												H121A01	40% TC	9.24			
												H121A03	75% TC	9.24			
												H121A04	75% TC	9.24			
												H121A02	40% TC	9.25			
												1505S3	95% TC	19.34			
												7794A	95% TC	19.32			
												7795A	95% TC	19.32			
												1505S5	95% TC	19.34			
												7796A	95% TC	19.32			
												1505S6	95% TC	19.34			
												7798A	95% TC	19.32			
19 AWG																	
												7806A	90% TC	9.27			

See page 2.33 for key to abbreviations used in this table.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Coaxial Cables

No. of Cond.	Material	Stranded (mm)	Solid (mm)	Nom. Imp. Ohm	CDR Diameter (mm)	Braid			Double Braid			Cu-foil/Braid		
						Part No.		Page	Part No.		Page	Part No.		Page
18 AWG			**1.00**											
1	BC		solid	75	1.02									
	BC		solid	75	1.02									
	BC		solid	75	1.02									
	BC	7x15x40		75	1.02	7503A	95% TC	18.38						
	CCS		solid	75	1.02									
	BC	105x40		75	1.02									
	CCS		solid	75	1.02									
	CCS		solid	75	1.02									
	CCS		solid	75	1.02									
	CCS		solid	75	1.02									
	CCS		solid	75	1.02									
	CCS		solid	75	1.02									
	BC		solid	75	1.02									
	BC		solid	75	1.00							CT100C0	53% BC	9.23
	BC		solid	75	1.00							CT100C1	53% BC	9.23
	BC		solid	75	1.00							CT100C3	53% BC	9.23
	BC		solid	75	1.00							H109C00	55% BC	9.20
	BC		solid	75	1.00							H109C02	55% BC	9.20
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00							H125C00	40% BC	9.21
	BC		solid	75	1.00							H125C01	40% BC	9.20
	BC		solid	75	1.00							H125C04	40% BC	9.21
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	BC		solid	75	1.00									
	CCS		solid	75	1.00									
	CCS		solid	75	1.00									
	CCS		solid	75	1.00									
2	BC		solid	75	1.00									
	BC		solid	75	1.00							H125C03	40% BC	9.21
3	BC		solid	75	1.02									
4	BC		solid	75	1.02									
5	BC		solid	75	1.02									
10	BC		solid	75	1.02									
17 AWG		**1.40**	**1.15**											
1	BC		solid	50	1.15									
	TC	19x0.28		50	1.41									
	TC	19x0.28		50	1.41									
	SPC	19x0.28		75	1.40				7784AF*	90% SPC + 85% BC	19.23			
16 AWG		**1.50**	**1.20**											
1	BC	7x37x40		75	1.65	7504A	95% TC	18.38						
	SPC		solid	75	1.40				7784ANH*	90% SPC + 85% BC	19.23			
	SPC		solid	75	1.40				7784AS*	90% SPC + 85% BC	19.23			

* Triax

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Coaxial Cables

Duobond®/Braid			Duobond® II/Braid			Duobond® IV			Duobond Plus®/Braid			Duofoil®/Braid			Beldfoil®/Braid		
Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page
18 AWG																	
												1694A	95% TC	19.29			
												1694ANH	95% TC	19.29			
												1694SB	95% TC	7.4			
						3092A		18.18									
						3092F		18.18									
						3093A		18.18									
						3131A		18.19									
						3132A		18.19									
			9116	60% AL	9.18												
			9116SB	60% AL	7.4												
			9118	60% AL	9.18												
												9248	60% TC	19.25			
												H124A00	31% TC	9.23			
												H125A00	40% TC	9.22			
												H125A01	40% TC	9.22			
												H125A02#	70% TC	9.22			
												H125A03	40% TC	9.22			
												H125A06	70% TC	9.22			
												H125A07	70% TC	9.21			
												H125A08	70% TC	9.21			
									H125D00	50% TC	9.23						
												H126A00	35% TC	9.19			
			H126A02	50% TC	9.20												
			H126A03	70% TC	9.20												
									H126D00	40% TC	9.19						
									H126D02	50% TC	9.19						
									H126D03	50% TC	9.19						
									H126D04	50% TC	9.19						
												RG6A00	40% TC	9.18			
									RG6D00	40% TC	9.18						
									RG6D01	50% TC	9.18						
												H125A04	40% TC	9.22			
												7710A	95% TC	19.32			
												7711A	95% TC	19.32			
												7712A	95% TC	19.32			
												7713A	95% TC	19.32			
17 AWG																	
												7807A	95% TC	9.27			
												H155A00	80% TC	9.31			
												H155A01	80% TC	9.31			
16 AWG																	

Messenger

See page 2.33 for key to abbreviations used in this table.

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Coaxial Cables

No. of Cond.	Material	Stranded (mm)	Solid (mm)	Nom. Imp. Ohm	CDR Diameter (mm)	Braid			Double Braid			Cu-foil / Braid		
						Part No.		Page	Part No.		Page	Part No.		Page
16 AWG		**1.50**	**1.20** *(continued)*											
1	BC		solid	75	1.40				7784E*	85% BC + 80% BC	19.23			
	TC		solid	75	1.20									
	BC		solid	75	1.20									
	BC		solid	75	1.20							PRG7C00	40% BC	9.17
	BC		solid	75	1.20							PRG7C01	40% BC	9.17
	BC		solid	75	1.25							CT125C0	51% BC	9.16
	BC		solid	75	1.25							CT125C1	51% BC	9.16
	BC		solid	75	1.25							CT125C3	51% BC	9.16
	BC		solid	75	1.25							RG7C00	50% BC	9.17
	BC		solid	75	1.25							RG7C01	50% BC	9.16
	BC		solid	75	1.25							RG7C02	50% BC	9.16
15 AWG			**1.45**											
1	BC		solid	50	1.45									
	SPCSW		solid	50	1.50	MRG304	95% SPC	6.4						
14.5 AWG			**1.55**											
1	BC		solid	75	1.55									
	BC		solid	75	1.55									
	BC		solid	75	1.55							PRG11C0	50% BC	9.13
	BC		solid	75	1.55							PRG11C2	50% BC	9.14
	BC		solid	75	1.55							PRG11C4	50% BC	9.14
	BC		solid	75	1.55							PRG11C6#	50% BC	9.13
	BC		solid	75	1.55									
	BC		solid	75	1.55									
	BC		solid	75	1.55									
14 AWG			**1.60**											
1	CCS		solid	75	1.63									
	CCS		solid	75	1.63									
	BC		solid	75	1.63									
	BC		solid	75	1.63									
	BC		solid	75	1.63									
	CCS		solid	75	1.63									
	CCS		solid	75	1.63									
	CCS		solid	75	1.63									
	SPC		solid	50	1.65	1675A•	100% CT	9.32						
	BC		solid	75	1.67							CT167C0	55% BC	9.12
	BC		solid	75	1.67							CT167C1	55% BC	9.12
	BC		solid	75	1.67							CT167C2	55% BC	9.12
	BC		solid	75	1.67							CT167C3	55% BC	9.12
13 AWG			**1.83**											
1	BC		solid	50	1.83									
12 AWG		**2.40**	**2.05**											
1	SPC	7x0.75		75	2.21				7785A*	80% SPC + 80% BC	19.24			
	SPC	7x0.75		75	2.21				7785ANH*	80% SPC + 80% BC	19.24			
	BC		solid	50	2.05									
	BC		solid	50	2.05									
	BC		solid	75	2.23							CX4C0	60% BC	9.11
	BC		solid	75	2.23							CX4C1***		9.11
	BC		solid	75	2.23							CX4C2	60% BC	9.11
	BC		solid	75	2.23							CX4C3#	60% BC	9.11
	SPC	7x0.80		50	2.40	MRG165	96% SPC	6.4						
	SPC	7x0.79		50	2.30				MRG225	95% SPC	6.4			
	BC	7x0.75		50	2.25	MRG2130	92% BC	9.31						

• Composite Braid
* Triax, *** without Braid
# Messenger

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Coaxial Cables

	Duobond®/Braid			Duobond® II/Braid			Duobond® IV			Duobond Plus®/Braid			Duofoil®/Braid			Beldfoil®/Braid		
	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page
16 AWG																		
													PRG7A00	40% TC	9.17			
													PRG7A01#	40% TC	9.17			
15 AWG																		
				7808A	95% TC	9.28												
14.5 AWG																		
													PRG11A2	50% TC	9.14			
													PRG11A3	50% TC	9.14			
										PRG11D0	50% TC	9.15						
										PRG11D1	70% TC	9.15						
										PRG11D3	50% TC	9.15						
14 AWG																		
							3094A		15.71 18.19									
							3095A		18.19									
													7731A	95% TC	19.30			
													7731ANH	95% TC	19.30			
													9292	60% TC	19.25			
				1523A	60% AL	9.13												
				1524AM#	60% AL	9.13												
				1525A**	60% AL	9.13												
13 AWG																		
				7809A	95% TC	9.28												
12 AWG																		
							9880		15.69 18.12									
							89880		15.69 18.12									

Messenger
** CoreGuard®
See page 2.33 for key to abbreviations used in this table.

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Coaxial Cables

No. of Cond.	Material	Stranded (mm)	Solid (mm)	Nom. Imp. Ohm	CDR Diameter (mm)	Braid			Double Braid			Cu-foil / Braid		
						Part No.		Page	Part No.		Page	Part No.		Page
11 AWG			**2.50**											
1	BC		solid	50	2.50							H500C00	50% BC	9.30
10 AWG		**2.70**	**2.60**											
1	BCCA		solid	50	2.60									
	BC		solid	50	2.62							H1000C0	50% BC	9.30
	BC		solid	50	2.62							H1000C1	50% BC	9.30
	BC		solid	50	2.62							H1000C3	85% BC	9.30
	BC	19x0.54		50	2.70							H1001C1	50% BC	9.30
9 AWG			**3.15**											
1	CCA		solid	75	3.15									
	CCA		solid	75	3.15									
8 AWG			**3.38**											
1	BC		solid	75	3.38							CX3C0	60% BC	9.9
	BC		solid	75	3.38							CX3C1***		9.9
	BC		solid	75	3.38							CX3C2	60% BC	9.9
	BC		solid	75	3.38							CX3C3#	60% BC	9.9
7 AWG			**3.60**											
1	BCCA		solid	50	3.60									
5.5 AWG			**4.47**											
1	BCCA		solid	50	4.47									

*** without Braid
# Messenger

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Coaxial Cables

	Duobond®/Braid			Duobond® II/Braid			Duobond® IV			Duobond Plus®/Braid			Duofoil®/Braid			Beldfoil®/Braid		
	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page	Part No.		Page
11 AWG																		
10 AWG																		
				7810A	95% TC	9.28												
9 AWG																		
	YE00131◆		9.10															
	YE00132#◆		9.10															
8 AWG																		
7 AWG																		
				7976A	90% TC	9.29												
5.5 AWG																		
				7977A	85% TC	9.29												

Messenger
◆ Welded Aluminum Tube

Conductor abbreviations:
BC = Bare Copper
BCC = Bare Compacted Copper
BCCA = Bare Copper-Covered Aluminum
CCA = Copper-Cladded Aluminum
CCS = Copper-Covered Steel
SPC = Silver-Plated Copper
SPCCS = Silver-Plated Copper-Covered Steel
SPCSW = Silver-Plated Copperweld-Steel-Wire
TC = Tinned Copper
TCB = Tinned Cadmium Bronze

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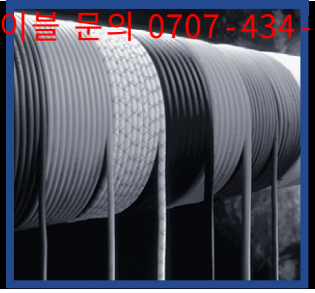
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Notes

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BELDEN
SENDING ALL THE RIGHT SIGNALS



3 Hook-Up and Lead Wire

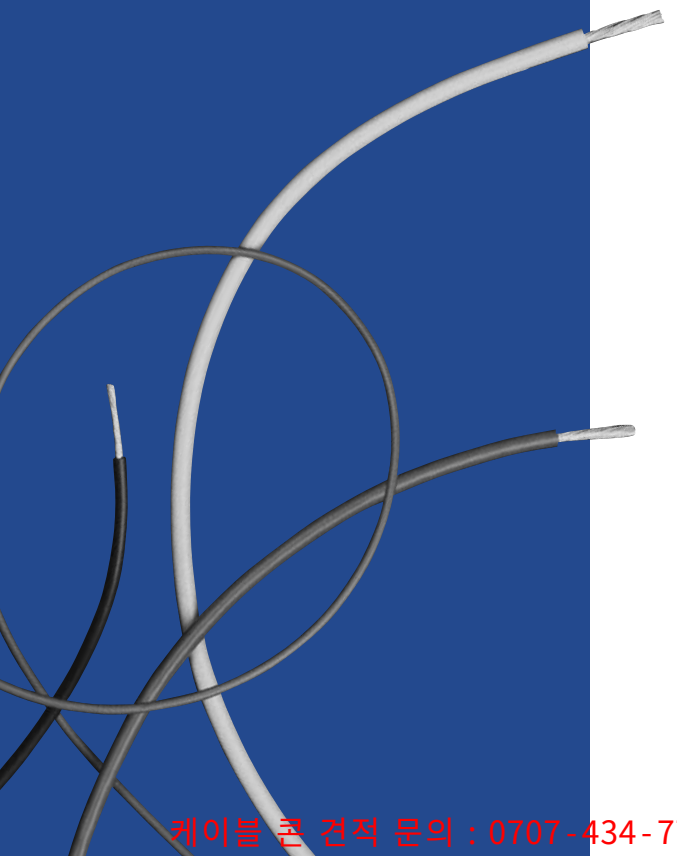


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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

Hook-Up With Belden and Lead The Way

Consistency is vital wherever cables are used. From data processing to lighting, from services to HVAC – cable quality delivers a performance that makes life easier, more efficient and problem free.

Off-the-shelf or tailor-made, Belden hook-up and lead wire products are manufactured in a variety of materials, sizes and designs to meet rigid industry specifications. By manufacturing in-house, Belden has full control from start to finish – from the initial copper rod through rubber formulation and plastic mixing to the finished product. The way Belden manufactures cables is the guarantee of durable quality, perfect performance and top specifications which will meet or exceed industry standards.

Key Applications

- Inter-connection circuits
- Wiring of computers
- Wiring of data processing equipment
- Appliances
- Lighting
- Motor leads
- Heating and cooling equipment
- Harness fabrication
- Automotive
- Aerospace/defense
- Nuclear environment/radiation resistance

Special Features

- Extended temperature and chemical resistant cables: these cables are suitable for applications in the temperature range from -190°C up to +1250°C.

Availability

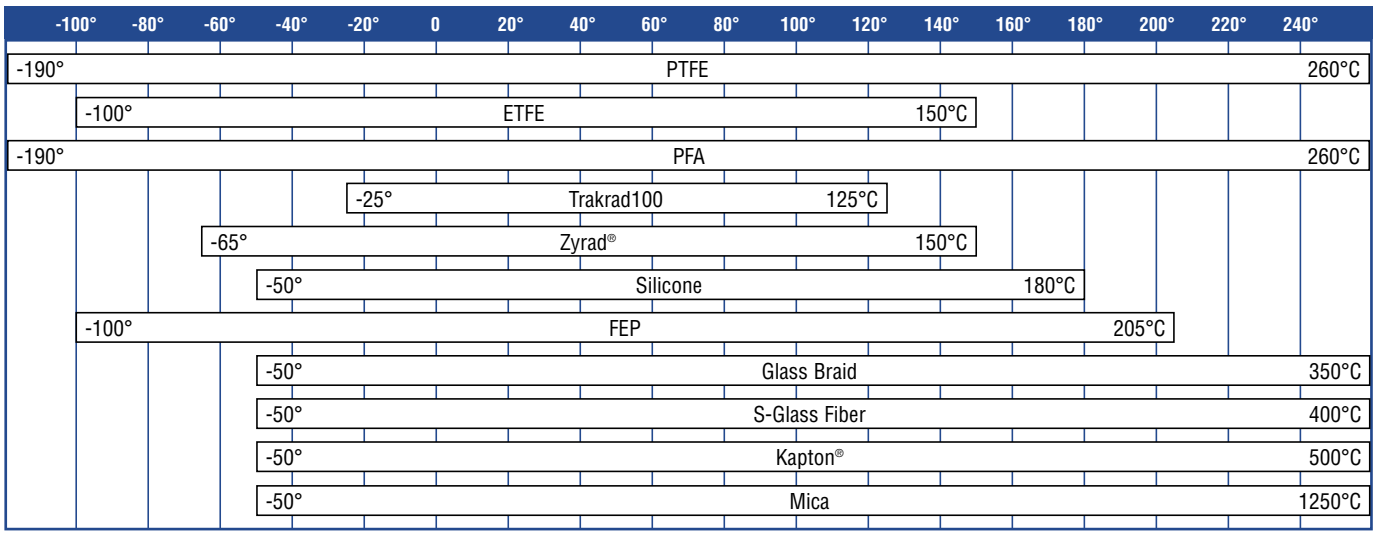
Most of our hook-up and lead wire constructions are available from stock in a wide variety of colors and packages. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a hook up wire cable in this catalog section that meets your technical requirements, see our U.S. Master Catalog or contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

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*peak voltage

Nominal Temperature Operating Ranges (°C)



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Technical Information
Conductor and Insulation Materials

Conductors

Uni-Strand®
Uni-Strand tinned copper conductor. In this type of construction, the bare copper wires are stranded and then tinned to coat the strands and also fill the interstices between the strands. This allows for easier wire stripping with no re-twisting operation.

Plated Copper Conductor
There are a number of plating materials used to enhance the characteristics of the copper conductor. Tin plating is mainly used to improve the soldering characteristics of the conductor. Silver is used to increase the temperature and conductivity of the conductor as well as its soldering characteristics. Nickel-plating increases the temperature rating of the conductor even higher as well as offering excellent anti-oxidation characteristics.

Insulation Materials

Silicone Rubber
Braidless silicone lead wire features easy and clean stripping without the problems associated with glass braid lead wire. It has excellent physical and mechanical strength properties.

Recommended for high temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. It is recommended that varnish compatibility be checked before production. Some rigid varnishes may cause cracking when the wire is severely bent.

Silicone Rubber – Glass Braid
The silicone insulation strips clean and easy. The glass braid provides additional abrasion resistance and is treated to prevent fraying. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices.

FEP Teflon®
Teflon® is a fluorinated thermoplastic with outstanding thermal, physical, and electrical properties. Teflon® is generally restricted to applications requiring its special characteristics because its basic resin and processing costs are relatively high.

Belden Teflon® wire products are highly recommended for miniature cable applications because of their superior thermal and electrical properties. Teflon® is especially suitable for internal wiring soldering applications where insulation melt back is a specific problem.

Belden wiring products insulated with Teflon® are outstanding in their resistance to oil, oxidation, heat, sunlight and flame; and also in their ability to remain flexible at low temperatures. They have excellent resistance to ozone, water, alcohol, gasoline, acids, alkalis, aromatic hydrocarbons and solvents.

PTFE
Best chemical resistance and very good electrical and mechanical properties are characteristic for this material. Belden processes PTFE in the form of wrapped tapes and extrusion.

PFA
Same material properties as PTFE. Applied by extrusion.

ETFE
Chemical and mechanical properties comparable to PTFE. Applied by extrusion.

Trakrad 100
Trakrad is a cross-linked polyolefin insulated cable designed for traction and rolling stock, and is suitable for fixed installations within vehicles and between motor and underframe. These cables are also designed for use in connections to coil windings, wiring of motor vehicles, control panels and switchgear. They are designed to provide enhanced oil resistance to meet British Rail spec. TDE 76/P/16.

Zyrad®
Zyrad® 500 and 555 are a modified cross-linked polyolefin having a 600V 155°C rating for commercial applications, in particular class F motor lead wires.

Zyrad® 500 is approved to UL3289 and CSA CL 1503. Both Zyrad® 500 and Zyrad® 555 have excellent abrasion resistance, coupled with good flexibility, and will withstand varnish bake temperatures of 190°C and short term exposure at 250°C.

EFGLAS
EFGLAS cable range is designed to meet the specification BSG222, a specification for aircraft wiring cables at high (+260°C) and low (-70°C) temperature. These cables are popular though throughout many industries and applications because of their temperature rating and improved abrasion resistance.

Ceramic Material Insulated Cables
Belden offers special insulation and sheath materials based on ceramic and mica. These material allow service at a constant ambient temperature of +800°C and peak temperatures up to +1550°C even under extreme conditions, e.g. application in glass, iron- and steel fabrication.

In order to extend the fields of application, glass fiber materials can be combined with other high performance materials e.g. PTFE, FEP, Kapton®, silicone or mica. These combinations ensure application in humid areas at an excellent dielectric strength.

Kapton®
Kapton® film is a compact, lightweight mechanically tough cable insulation system offering both space and weight saving characteristics. Kapton® equipment wires have excellent electrical properties as well as generating low smoke and being classed as low toxic.

Kapton® and Teflon® are DuPont trademarks.

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PTFE / Kapton® / PTFE

600V, 260°C

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
260°C • 20 - 4/0 AWG • Stranded Nickel-Plated Copper Wire													
PTFE/Kapton®/White PTFE Insulation • according to VG 95218 part 20 B													
		ASTM-D 4895								Unshielded			For wiring at high ambient temperatures and increased mechanical stress e.g. - Aerospace - Lead wires for engines and gearboxes
	HMC4000	1000	305	6.7	3.0	37 wires NPC		20	0.50		0.083	2.10	
	HMC4001	1000	305	8.7	4.0	37 wires NPC		18	0.75		0.091	2.30	
	HMC4002	1000	305	10.8	4.9	37 wires NPC		17	1.00		0.098	2.50	
	HMC4003	1000	305	15.5	7.0	37 wires NPC		16	1.50		0.110	2.80	
	HMC4004	1000	305	23.5	10.7	37 wires NPC		14	2.50		0.138	3.50	
	HMC4005	1000	305	37.6	17.1	7 legs NPC		12	4		0.173	4.40	
	HMC4006	1000	305	51.8	23.5	7 legs NPC		10	6		0.209	5.30	
	HMC4007	500	152	41.3	18.8	19 legs NPC		8	10		0.256	6.50	
	HMC4008	500	152	66.5	30.2	19 legs NPC		6	16		0.303	7.70	
	HMC4009	500	152	100.5	45.6	37 legs NPC		4	25		0.378	9.60	
	HMC4010	500	152	137.8	62.5	37 legs NPC		2	35		0.429	10.90	
	HMC4011	500	152	184.8	83.8	37 legs NPC		1	50		0.504	12.80	
	HMC4012	500	152	252.7	114.6	37 legs NPC		2/0	70		0.587	14.90	
	HMC4013	500	152	335.1	152.0	37 legs NPC		3/0	95		0.685	17.40	
	HMC4014	500	152	407.3	184.8	37 legs NPC		4/0	120		0.756	19.20	

NPC = Nickel-Plated Copper • DCR = DC resistance

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PTFE

600V, 260°C, peak temp 300°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard lengths ft.	Standard lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application

260°C • 20 - 2 AWG • Stranded Nickel-Plated Copper Wire

PTFE Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue) • **According to MIL-W-16878**

ASTM-D 4895 — Unshielded — For internal wiring at low and high ambient temperatures and/or corrosive environments.



Bi-color and tri-color combinations are available on request.

HMC4015	328	100	1.6	0.7	(7x0.30) NPC	20	0.50	0.059	1.51
HMC4016	328	100	2.4	1.1	(19x0.228) NPC	18	0.75	0.067	1.69
HMC4017	328	100	2.9	1.3	(29x0.203) NPC	17	1.00	0.074	1.88
HMC4018	328	100	4.0	1.8	(27x0.254) NPC	16	1.50	0.088	2.24
HMC4019	328	100	6.6	3.0	(45x0.254) NPC	14	2.50	0.104	2.65
HMC4020	328	100	9.9	4.5	(50x0.30) NPC	12	4	0.124	3.15
HMC4021	328	100	14.6	6.6	(75x0.30) NPC	10	6	0.152	3.85
HMC4022	328	100	25.6	11.6	(80x0.404) NPC	8	10	0.224	5.70
HMC4023	328	100	38.8	17.6	(126x0.404) NPC	6	16	0.268	6.80
HMC4024	328	100	60.0	27.2	(196x0.404) NPC	4	25	0.339	8.60
HMC4025	328	100	82.7	37.5	(276x0.404) NPC	2	35	0.390	9.90

260°C • 30 - 20 AWG • Solid Nickel-Plated Copper Wire

PTFE Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue) • **According to MIL-W-16878**

ASTM-D 4895 — Unshielded



Bi-color and tri-color combinations are available on request.

HMC4026	328	100	0.3	0.1	(1x0.254) NPC	30	0.051	0.034	0.86
HMC4027	328	100	0.4	0.2	(1x0.32) NPC	28	0.080	0.036	0.92
HMC4028	328	100	0.6	0.3	(1x0.40) NPC	26	0.126	0.039	1.00
HMC4029	328	100	0.8	0.4	(1x0.50) NPC	24	0.197	0.043	1.10
HMC4030	328	100	1.1	0.5	(1x0.64) NPC	22	0.32	0.049	1.24
HMC4031	328	100	1.5	0.7	(1x0.80) NPC	20	0.50	0.055	1.40

NPC = Nickel-Plated Copper • DCR = DC resistance

Also available on request:
- BS3G 210 Type A (300V)
- BS3G 210 Type B (600V)
- BS3G 210 Type C (1000V)

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FEP (VDE approved)

300/500V, 180°C

De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
180°C • 20 - 14 AWG • Stranded Tin-Plated Copper Wire													
FEP Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue) • **VDE reg. no. 6574 5519**													
		VDE 0207 Part 6								Unshielded			For wiring in electrical appliances and lighting up to a maximum operating temperature of 180°C.
	HMC4032		328	100	1.0	0.5	(16x0.20) TPC	20	0.50		0.059	1.50	
	HMC4033		328	100	1.6	0.7	(24x0.20) TPC	18	0.75		0.067	1.70	
	HMC4034		328	100	2.2	1.0	(32x0.20) TPC	17	1.00		0.075	1.90	
	HMC4035		328	100	2.9	1.3	(30x0.25) TPC	16	1.50		0.083	2.10	
	HMC4036		328	100	4.2	1.9	(50x0.25) TPC	14	2.50		0.106	2.70	
180°C • 20 - 14 AWG • Solid Tin-Plated Copper Wire													
FEP Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue) • **VDE reg. no. 6574 5519**													
		VDE 0207 Part 6								Unshielded			
	HMC4037		328	100	1.5	0.7	(1x0.80) TPC	20	0.50		0.055	1.40	
	HMC4038		328	100	2.1	1.0	(1x0.98) TPC	18	0.75		0.063	1.60	
	HMC4039		328	100	2.6	1.2	(1x1.13) TPC	17	1.00		0.065	1.65	
	HMC4040		328	100	3.7	1.7	(1x1.38) TPC	16	1.50		0.079	2.00	
	HMC4041		328	100	6.2	2.8	(1x1.78) TPC	14	2.50		0.098	2.50	

TPC = Tin-Plated Copper • DCR = DC resistance

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FEP (VDE approved) double insulated

300/500V, 180°C

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 20 - 14 AWG • Stranded Tin-Plated Copper Wire													
FEP Double Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue) • **VDE reg. no. 6574 9410**													
		VDE 0207 Part 6								Unshielded			For wiring in electrical appliances and lighting appropriate for protection class II up to an operating temperature of 180°C.
	HMC4042		328	100	2.6	1.2	(16x0.20) TPC	20	0.50		0.083	2.10	
	HMC4043		328	100	3.3	1.5	(24x0.20) TPC	18	0.75		0.091	2.30	
	HMC4044		328	100	4.0	1.8	(32x0.20) TPC	17	1.00		0.098	2.50	
	HMC4045		328	100	5.3	2.4	(30x0.25) TPC	16	1.50		0.106	2.70	
	HMC4046		328	100	8.2	3.7	(50x0.25) TPC	14	2.50		0.134	3.40	
180°C • 20 - 14 AWG • Solid Tin-Plated Copper Wire													
FEP Double Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue) • **VDE reg. no. 6574 9410**													
		VDE 0207 Part 6								Unshielded			
	HMC4047		328	100	2.4	1.1	(1x0.80) TPC	20	0.50		0.079	2.00	
	HMC4048		328	100	3.1	1.4	(1x0.98) TPC	18	0.75		0.087	2.20	
	HMC4049		328	100	3.7	1.7	(1x1.13) TPC	17	1.00		0.091	2.30	
	HMC4050		328	100	5.1	2.3	(1x1.38) TPC	16	1.50		0.102	2.60	
	HMC4051		328	100	7.9	3.6	(1x1.78) TPC	14	2.50		0.126	3.20	

TPC = Tin-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

FEP

600V, 200°C, peak temp 230°C

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
200°C • 20 - 2 AWG • Stranded Silver-Plated Copper Wire													
FEP Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		VDE 0207 Part 6 ASTM-D 2116								Unshielded			For wiring at low and high ambient temperatures and/or corrosive environments.
	HMC4052		1000	305	5.0	2.3	(7x0.30) SPC	20	0.50		0.059	1.51	
	HMC4053		1000	305	7.4	3.4	(19x0.228) SPC	18	0.75		0.067	1.69	
	HMC4054		1000	305	8.7	4.0	(29x0.203) SPC	17	1.00		0.074	1.88	
	HMC4055		1000	305	12.1	5.5	(27x0.254) SPC	16	1.50		0.088	2.24	
	HMC4056		1000	305	20.2	9.1	(45x0.254) SPC	14	2.50		0.104	2.65	
	HMC4057		1000	305	30.2	13.7	(50x0.30) SPC	12	4		0.124	3.15	
	HMC4058		500	152	22.2	10.1	(75x0.30) SPC	10	6		0.152	3.85	
	HMC4059		500	152	39.0	17.7	(80x0.404) SPC	8	10		0.224	5.70	
	HMC4060		500	152	59.1	26.8	(126x0.404) SPC	6	16		0.268	6.80	
	HMC4061		500	152	91.4	41.5	(196x0.404) SPC	4	25		0.339	8.60	
	HMC4062		500	152	126.0	57.2	(276x0.404) SPC	2	35		0.390	9.90	
200°C • 30 - 22 AWG • Solid Silver-Plated Copper Wire													
FEP Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		VDE 0207 Part 6 ASTM-D 2116								Unshielded			
	HMC4063		1000	305	0.9	0.4	(1x0.254) SPC	30	0.051		0.034	0.86	
	HMC4064		1000	305	1.3	0.6	(1x0.32) SPC	28	0.080		0.036	0.92	
	HMC4065		1000	305	1.8	0.8	(1x0.40) SPC	26	0.126		0.039	1.00	
	HMC4066		1000	305	2.5	1.1	(1x0.50) SPC	24	0.197		0.043	1.10	
	HMC4067		1000	305	3.2	1.5	(1x0.64) SPC	22	0.32		0.049	1.24	

SPC = Silver-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

FEP (VDE 0881)

900V*, 180°C, peak temp 200°C

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 31 - 12 AWG • Stranded Silver-Plated Copper Wire													
FEP Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		VDE 0207 Part 6								Unshielded			For internal wiring of telecommunication devices, electronic modules in appliances and for wiring of telecommunication and data processing systems.
	HMC4068	1640	500	1.3	0.6	(7x0.08) SPC		31	0.035		0.034	0.87	
	HMC4069	1640	500	1.7	0.8	(7x0.10) SPC		30	0.055		0.037	0.93	
	HMC4070	1640	500	2.0	0.9	(7x0.12) SPC		28	0.079		0.039	0.99	
	HMC4071	1640	500	2.6	1.2	(7x0.15) SPC		26	0.12		0.043	1.08	
	HMC4072	1640	500	3.9	1.8	(7x0.20) SPC		24	0.22		0.048	1.23	
	HMC4073	1640	500	5.4	2.5	(7x0.25) SPC		22	0.34		0.054	1.38	
	HMC4074	1640	500	8.0	3.7	(7x0.32) SPC		20	0.56		0.063	1.59	
	HMC4075	1640	500	12.1	5.5	(19x0.25) SPC		18	0.93		0.075	1.90	
	HMC4076	1640	500	16.5	7.5	(19x0.29) SPC		16	1.30		0.083	2.10	
	HMC4077	1640	500	23.1	10.5	(19x0.36) SPC		14	1.90		0.096	2.45	
	HMC4078	1640	500	37.5	17.0	(19x0.46) SPC		12	3.20		0.116	2.95	
180°C • 31 - 12 AWG • Solid Silver-Plated Copper Wire													
FEP Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		VDE 0207 Part 6								Unshielded			
	HMC4079	1640	500	1.4	0.7	(7x0.08) SPC		31	0.25		0.033	0.85	
	HMC4080	1640	500	1.9	0.9	(7x0.10) SPC		30	0.32		0.036	0.92	
	HMC4081	1640	500	2.4	1.1	(7x0.12) SPC		28	0.40		0.039	1.00	
	HMC4082	1640	500	3.3	1.5	(7x0.15) SPC		26	0.50		0.043	1.10	
	HMC4083	1640	500	4.7	2.2	(7x0.20) SPC		24	0.63		0.048	1.23	
	HMC4084	1640	500	6.9	3.2	(7x0.25) SPC		22	0.80		0.055	1.40	
	HMC4085	1640	500	10.0	4.6	(7x0.32) SPC		20	1.00		0.063	1.60	
	HMC4086	1640	500	16.5	7.5	(19x0.25) SPC		18	1.30		0.075	1.90	
	HMC4087	1640	500	23.1	10.5	(19x0.29) SPC		16	1.60		0.088	2.23	
	HMC4088	1640	500	38.6	17.5	(19x0.36) SPC		14	2.10		0.106	2.70	

* = peak voltage
SPC = Silver-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

ETFE

450/750V, 135°C

De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
135°C • 24 - 10 AWG • Stranded Tin-Plated Copper Wire													
ETFE Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		VDE 0250 Part 106								Unshielded			For internal wiring of power electronics, heating appliances and lighting at an ambient temperature exceeding 55°C.
	HMC4089	1640	500	5.0	2.3	(14x0.15) TPC		24	0.25		0.061	1.55	
	HMC4090	1640	500	8.0	3.7	(16x0.20) TPC		20	0.50		0.073	1.85	
	HMC4091	1640	500	11.0	5.0	(24x0.20) TPC		18	0.75		0.079	2.00	
	HMC4092	1640	500	14.3	6.5	(32x0.20) TPC		17	1.00		0.087	2.20	
	HMC4093	1640	500	20.9	9.5	(30x0.25) TPC		16	1.50		0.104	2.65	
	HMC4094	1640	500	34.2	15.5	(50x0.25) TPC		14	2.50		0.132	3.35	
	HMC4095	1640	500	50.7	23.0	(56x0.30) TPC		12	4		0.150	3.80	
	HMC4096	1640	500	70.5	32.0	(84x0.30) TPC		10	6		0.173	4.40	
135°C • 24 - 10 AWG • Solid Tin-Plated Copper Wire													
ETFE Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		VDE 0250 Part 106								Unshielded			
	HMC4097	1640	500	4.9	2.2	(1x0.56) TPC		24	0.25		0.057	1.45	
	HMC4098	1640	500	7.9	3.6	(1x0.80) TPC		20	0.50		0.067	1.70	
	HMC4099	1640	500	10.8	4.9	(1x0.98) TPC		18	0.75		0.075	1.90	
	HMC4100	1640	500	13.2	6.0	(1x1.13) TPC		17	1.00		0.081	2.05	
	HMC4101	1640	500	19.8	9.0	(1x1.38) TPC		16	1.50		0.098	2.50	
	HMC4102	1640	500	33.1	15.0	(1x1.78) TPC		14	2.50		0.122	3.10	
	HMC4103	1640	500	48.5	22.0	(1x2.26) TPC		12	4		0.142	3.60	
	HMC4104	1640	500	70.5	32.0	(1x2.76) TPC		10	6		0.161	4.10	

TPC = Tin-Plated Copper • DCR = DC resistance

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

ETFE

600V, 135°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
135°C • 20 - 2 AWG • Stranded Tin-Plated Copper Wire													
ETFE Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		VDE 0207 Part 6 ASTM-D 3159								Unshielded			For wiring at low and high ambient temperatures and/or corrosive environments.
Bi color combinations are available on request.													
	HMC4105		1640	500	7.5	3.4	(7x0.30) TPC	20	0.50		0.059	1.51	
	HMC4106		1640	500	7.6	3.5	(15x0.203) TPC	20	0.50		0.060	1.52	
	HMC4107		1640	500	11.0	5.0	(19x0.228) TPC	18	0.75		0.067	1.69	
	HMC4108		1640	500	10.4	4.7	(22x0.203) TPC	18	0.75		0.067	1.70	
	HMC4109		1640	500	13.2	6.0	(29x0.203) TPC	17	1.00		0.074	1.88	
	HMC4110		1640	500	18.7	8.5	(27x0.254) TPC	16	1.50		0.088	2.24	
	HMC4111		1640	500	30.9	14.0	(45x0.254) TPC	14	2.50		0.104	2.65	
	HMC4112		1640	500	47.4	21.5	(50x0.30) TPC	12	4		0.124	3.15	
	HMC4113		328	100	13.9	6.3	(75x0.30) TPC	10	6		0.152	3.85	
	HMC4114		328	100	24.3	11.0	(80x0.404) TPC	8	10		0.224	5.70	
	HMC4115		328	100	37.0	16.8	(126x0.404) TPC	6	16		0.268	6.80	
	HMC4116		328	100	56.4	25.6	(196x0.404) TPC	4	25		0.339	8.60	
	HMC4117		328	100	79.1	35.9	(276x0.404) TPC	2	35		0.390	9.90	
135°C • 30 - 20 AWG • Solid Tin-Plated Copper Wire													
ETFE Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		VDE 0207 Part 6 ASTM-D 3159								Unshielded			
Bi color combinations are available on request.													
	HMC4118		1640	500	1.3	0.6	(1x0.254) TPC	30	0.051		0.034	0.86	
	HMC4119		1640	500	1.8	0.8	(1x0.32) TPC	28	0.080		0.036	0.92	
	HMC4120		1640	500	2.3	1.1	(1x0.40) TPC	26	0.126		0.039	1.00	
	HMC4121		1640	500	3.3	1.5	(1x0.50) TPC	24	0.197		0.043	1.10	
	HMC4122		1640	500	4.6	2.1	(1x0.64) TPC	22	0.32		0.049	1.24	
	HMC4123		1640	500	7.1	3.2	(1x0.80) TPC	20	0.50		0.055	1.40	

TPC = Tin-Plated Copper • DCR = DC resistance

Also available on request:
DEF STAN 61-12 Part 29 ETFE wires Type 1 to Type 6.

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

PFA

600V, 260°C, peak temp 280°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
260°C • 20 - 2 AWG • Stranded Nickel-Plated Copper Wire													
PFA Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		ASTM-D 3307								Unshielded			For internal wiring at low and high ambient temperatures and/or corrosive environments.
	HMC4124		1640	500	8.2	3.7	(7x0.30) NPC	20	0.50		0.059	1.51	
	HMC4125		1640	500	12.1	5.5	(19x0.228) NPC	18	0.75		0.067	1.69	
	HMC4126		1640	500	14.3	6.5	(29x0.203) NPC	17	1.00		0.074	1.88	
	HMC4127		1640	500	19.8	9.0	(27x0.254) NPC	16	1.50		0.088	2.24	
	HMC4128		1640	500	33.1	15.0	(45x0.254) NPC	14	2.50		0.104	2.65	
	HMC4129		1640	500	49.6	22.5	(50x0.30) NPC	12	4		0.124	3.15	
	HMC4130		328	100	14.6	6.6	(75x0.30) NPC	10	6		0.152	3.85	
	HMC4131		328	100	25.6	11.6	(80x0.404) NPC	8	10		0.224	5.70	
	HMC4132		328	100	38.8	17.6	(126x0.404) NPC	6	16		0.268	6.80	
	HMC4133		328	100	60.0	27.2	(196x0.404) NPC	4	25		0.339	8.60	
	HMC4134		328	100	82.7	37.5	(276x0.404) NPC	2	35		0.390	9.90	
260°C • 30 - 20 AWG • Solid Nickel-Plated Copper Wire													
PFA Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		ASTM-D 3307								Unshielded			
	HMC4135		1640	500	1.5	0.7	(1x0.254) NPC	30	0.051		0.034	0.86	
	HMC4136		1640	500	2.2	1.0	(1x0.32) NPC	28	0.080		0.036	0.92	
	HMC4137		1640	500	3.0	1.4	(1x0.40) NPC	26	0.126		0.039	1.00	
	HMC4138		1640	500	4.1	1.9	(1x0.50) NPC	24	0.197		0.043	1.10	
	HMC4139		1640	500	5.3	2.4	(1x0.64) NPC	22	0.32		0.049	1.24	
	HMC4140		1640	500	7.7	3.5	(1x0.80) NPC	20	0.50		0.055	1.40	

NPC = Nickel-Plated Copper • DCR = DC resistance

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Trakrad 100

1900/3300V, 125°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
125°C • 20 AWG - 750 MCM • Stranded Tin-Plated Copper Wire													
Trakrad 100 Grey Insulation • Oil-Resistance • Flame-Retardant													
		BS 4066-1 IEC 60332-3(A)								Unshielded			Suitable for fixed installations within trains and between motor and underframe e.g. - Connections to coil windings - Wiring of motor trains - Control panels and switchgear Designed to provide enhanced oil resistance to meet British Rail spec. TDE 76/P/16.
	HMC4141	1640	500	13.3	6.0	(16x0.20) TPC	20	0.50		0.102	2.59	
	HMC4142	1640	500	16.9	7.7	(24x0.20) TPC	18	0.75		0.111	2.82	
	HMC4143	1640	500	19.8	9.0	(32x0.20) TPC	17	1.00		0.115	2.92	
	HMC4144	1640	500	21.4	9.7	(37x0.20) TPC	16.5	1.16		0.118	3.00	
	HMC4145	1640	500	26.9	12.2	(30x0.25) TPC	16	1.50		0.131	3.32	
	HMC4146	1640	500	30.9	14.0	(37x0.25) TPC	15	1.80		0.138	3.50	
	HMC4147	1640	500	38.9	17.7	(50x0.25) TPC	14	2.50		0.148	3.76	
	HMC4148	1640	500	41.1	18.6	(37x0.30) TPC	13	2.60		0.154	3.90	
	HMC4149	1640	500	56.6	25.7	(56x0.30) TPC	12	4		0.169	4.29	
	HMC4150	328	100	13.5	6.1	(37x0.40) TPC	11	4.70		0.189	4.80	
	HMC4151	328	100	18.4	8.3	(84x0.30) TPC	10	6		0.223	5.67	
	HMC4152	328	100	21.7	9.8	(61x0.40) TPC	9	7.70		0.236	6.00	
	HMC4153	328	100	28.2	12.8	(80x0.40) TPC	8	10		0.276	7.00	
	HMC4154	328	100	41.4	18.8	(126x0.40) TPC	6	16		0.319	8.10	
	HMC4155	328	100	65.6	29.8	(196x0.40) TPC	4	25		0.406	10.30	
	HMC4156	on request		891.1	404.2	(276x0.40) TPC	2	35		0.461	11.70	
	HMC4157	on request		1240.3	562.6	(396x0.40) TPC	1	50		0.539	13.70	
	HMC4158	on request		1728.0	783.8	(360x0.50) TPC	2/0	70		0.630	16.00	
	HMC4159	on request		2266.3	1028.0	(475x0.50) TPC	3/0	95		0.728	18.50	
	HMC4160	on request		2877.0	1305.0	(608x0.50) TPC	4/0	120		0.803	20.40	
	HMC4161	on request		3542.8	1607.0	(756x0.50) TPC	300 MCM	150		0.890	22.60	
	HMC4162	on request		4296.8	1949.0	(925x0.50) TPC	350 MCM	185		0.976	24.80	
	HMC4163	on request		5562.2	2523.0	(1221x0.50) TPC	500 MCM	240		1.094	27.80	
	HMC4164	on request		7067.9	3206.0	(1525x0.50) TPC	600 MCM	300		1.260	32.00	
	HMC4165	on request		9153.5	4152.0	(2013x0.50) TPC	750 MCM	400		1.417	36.00	
	Weights for "on request" are for 1 km											

TPC = Tin-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Zyrad® 500 UL/CSA

600V, 150°C

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
150°C • 24 - 4/0 AWG • Stranded Tin-Plated Copper Wire													
Zyrad® 500 Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black, Blue, Pink and Green/Yellow)													
		UL3289 CSA CL 1503								Unshielded			For wiring at high ambient temperatures, e.g. - Class F electric motors - Transformers - Domestic appliances - Inductive loop - Lighting - General hostile environments
	HMC4166	3280	1000	7.8	3.5	(19x0.13) TPC	24	0.25		0.089	2.25	
	HMC4167	3280	1000	11.3	5.1	(16x0.20) TPC	22	0.50		0.100	2.53	
	HMC4168	3280	1000	14.6	6.6	(24x0.20) TPC	20	0.75		0.108	2.74	
	HMC4169	3280	1000	17.7	8.1	(32x0.20) TPC	18	1.00		0.115	2.92	
	HMC4170	3280	1000	23.3	10.6	(30x0.25) TPC	16	1.50		0.126	3.20	
	HMC4171	1640	500	34.7	15.8	(50x0.25) TPC	14	2.50		0.144	3.67	
	HMC4172	1640	500	51.9	23.5	(56x0.30) TPC	12	4		0.165	4.20	
	HMC4173	328	100	14.6	6.6	(84x0.30) TPC	10	6		0.189	4.79	
	HMC4174	328	100	26.6	12.1	(80x0.40) TPC	8	10		0.260	6.60	
	HMC4175	328	100	42.3	19.2	(126x0.40) TPC	6	16		0.350	8.90	
	HMC4176	328	100	62.0	28.1	(196x0.40) TPC	4	25		0.406	10.30	
	HMC4177	164	50	42.3	19.2	(278x0.40) TPC	2	35		0.461	11.70	
	HMC4178	164	50	61.6	27.9	(399x0.40) TPC	1	50		0.563	14.30	
	HMC4179	164	50	84.7	38.4	(361x0.50) TPC	0	70		0.646	16.40	
	HMC4180	164	50	110.6	50.2	(475x0.50) TPC	3/0	95		0.728	18.50	
	HMC4181	164	50	141.1	64.0	(608x0.50) TPC	4/0	120		0.787	20.00	

TPC = Tin-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Zyrad® 555

600V, 155°C

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
155°C • 24 - 4/0 AWG • Stranded Tin-Plated Copper Wire													
Zyrad® 555 Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black, Blue, Pink and Green/Yellow)													
										Unshielded			For wiring at high ambient temperatures, e.g. - Class F electric motors - Transformers - Domestic appliances - Inductive loop - Lighting - General hostile environments
	HMC4182		3280	1000	4.4	2.0	(19x0.13) TPC	24	0.25		0.057	1.45	
	HMC4183		3280	1000	7.4	3.4	(19x0.18) TPC	20	0.50		0.069	1.75	
	HMC4184		3280	1000	11.8	5.3	(24x0.20) TPC	18	0.75		0.088	2.24	
	HMC4185		3280	1000	15.4	7.0	(32x0.20) TPC	17	1.00		0.099	2.52	
	HMC4186		3280	1000	20.7	9.4	(30x0.25) TPC	16	1.50		0.110	2.80	
	HMC4187		1640	500	31.6	14.3	(50x0.25) TPC	14	2.50		0.126	3.20	
	HMC4188		1640	500	49.2	22.3	(56x0.30) TPC	12	4		0.154	3.90	
	HMC4189		328	100	14.2	6.5	(84x0.30) TPC	10	6		0.181	4.59	
	HMC4190		328	100	24.8	11.3	(80x0.40) TPC	8	10		0.244	6.20	
	HMC4191		328	100	38.4	17.4	(126x0.40) TPC	6	16		0.311	7.90	
	HMC4192		328	100	58.3	26.4	(196x0.40) TPC	4	25		0.374	9.50	
	HMC4193		164	50	40.7	18.5	(278x0.40) TPC	2	35		0.437	11.10	
	HMC4194		164	50	58.1	26.4	(399x0.40) TPC	1	50		0.524	13.30	
	HMC4195		164	50	81.0	36.7	(361x0.50) TPC	2/0	70		0.614	15.60	
	HMC4196		164	50	108.1	49.1	(475x0.50) TPC	3/0	95		0.713	18.10	
	HMC4197		164	50	136.4	61.9	(608x0.50) TPC	4/0	120		0.772	19.60	

TPC = Tin-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber

Braidless

300/500V, 180°C, peak temp 250°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 24 AWG - 500 MCM • Stranded Tin-Plated Copper Wire													
Silicone Halogen-Free Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		IEC 60754-1 VDE 0282 Part 1								Unshielded			For wiring at high ambient temperatures, e.g. - Lighting - Domestic appliances - Instrumentation engineering - Mechanical engineering
HMC4198			328	100	1.3	0.6	(14x0.15) TPC	24	0.25		0.071	1.80	
HMC4199			328	100	2.0	0.9	(16x0.20) TPC	20	0.50		0.083	2.10	
HMC4200			328	100	2.4	1.1	(24x0.20) TPC	18	0.75		0.091	2.30	
HMC4201			328	100	3.1	1.4	(32x0.20) TPC	17	1.00		0.094	2.40	
HMC4202			328	100	4.2	1.9	(30x0.25) TPC	16	1.50		0.106	2.70	
HMC4203			328	100	6.4	2.9	(50x0.30) TPC	14	2.50		0.126	3.20	
HMC4204			328	100	9.7	4.4	(56x0.30) TPC	12	4		0.157	4.00	
HMC4205			328	100	13.7	6.2	(84x0.30) TPC	10	6		0.181	4.60	
HMC4206			328	100	27.3	12.4	(80x0.40) TPC	8	10		0.256	6.50	
HMC4207			328	100	40.8	18.5	(128x0.40) TPC	6	16		0.303	7.70	
HMC4208			328	100	61.9	28.1	(200x0.40) TPC	4	25		0.374	9.50	
HMC4209			on request		840.0	381.0	(280x0.40) TPC	2	35		0.429	10.90	
HMC4210			on request		1181.7	536.0	(400x0.40) TPC	1	50		0.500	12.70	
HMC4211			on request		1640.2	744.0	(356x0.50) TPC	2/0	70		0.575	14.60	
HMC4212			on request		2180.3	989.0	(485x0.50) TPC	3/0	95		0.685	17.40	
HMC4213			on request		2691.8	1221.0	(614x0.50) TPC	4/0	120		0.744	18.90	
HMC4214			on request		3353.2	1521.0	(765x0.50) TPC	300 MCM	150		0.815	20.70	
HMC4215			on request		4186.5	1899.0	(944x0.50) TPC	350 MCM	185		0.925	23.50	
HMC4216			on request		5732.0	2600.0	(1225x0.50) TPC	500 MCM	240		1.047	26.60	
Weights for "on request" are for 1 km													
180°C • 20 - 12 AWG • Solid Tin-Plated Copper Wire													
Silicone Halogen-Free Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		IEC 60754-1 VDE 0282 Part 1								Unshielded			For wiring at high ambient temperatures, e.g. - Lighting - Domestic appliances - Instrumentation engineering - Mechanical engineering
HMC4217			328	100	1.8	0.8	(1x0.80) TPC	20	0.50		0.079	2.00	
HMC4218			328	100	2.4	1.1	(1x0.98) TPC	18	0.75		0.083	2.10	
HMC4219			328	100	2.9	1.3	(1x1.13) TPC	17	1.00		0.091	2.30	
HMC4220			328	100	4.0	1.8	(1x1.38) TPC	16	1.50		0.098	2.50	
HMC4221			328	100	6.4	2.9	(1x1.78) TPC	14	2.50		0.122	3.10	
HMC4222			328	100	9.9	4.5	(1x2.26) TPC	12	4		0.150	3.80	
Weights for "on request" are for 1 km													

TPC = Tin-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber (H05S)

Braidless

300/500V, 180°C, peak temp 250°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 20 - 14 AWG • Stranded Tin-Plated Copper Wire													
Silicone Halogen-Free Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		IEC 60754-1 VDE 0282 Part 3								Unshielded			For wiring in electrical appliances and lighting up to a maximum operating temperature of 180°C.
													
H05S-K													
	HMC4223		328	100	2.6	1.2	(16x0.20) TPC	20	0.50		0.098	2.50	
	HMC4224		328	100	3.3	1.5	(24x0.20) TPC	18	0.75		0.106	2.70	
	HMC4225		328	100	3.7	1.7	(32x0.20) TPC	17	1.00		0.110	2.80	
	HMC4226		328	100	5.5	2.5	(30x0.25) TPC	16	1.50		0.130	3.30	
	HMC4227		328	100	8.2	3.7	(50x0.25) TPC	14	2.50		0.154	3.90	
180°C • 20 - 14 AWG • Solid Tin-Plated Copper Wire													
Silicone Halogen-Free Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		IEC 60754-1 VDE 0282 Part 3								Unshielded			
													
H05S-U													
	HMC4228		328	100	2.4	1.1	(1x0.80) TPC	20	0.50		0.094	2.40	
	HMC4229		328	100	3.1	1.4	(1x0.98) TPC	18	0.75		0.098	2.50	
	HMC4230		328	100	3.7	1.7	(1x1.13) TPC	17	1.00		0.106	2.70	
	HMC4231		328	100	5.3	2.4	(1x1.38) TPC	16	1.50		0.122	3.10	
	HMC4232		328	100	7.9	3.6	(1x1.78) TPC	14	2.50		0.146	3.70	

TPC = Tin-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber (VDE approved)

Braidless

300/300V, 180°C, peak temp 250°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 20 - 14 AWG • Stranded Tin-Plated Copper Wire													
Silicone Halogen-Free Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue) • **VDE reg. no. N2GFA resp. (N)2GFA**													
		IEC 60754-1 VDE 0282 Part 1								Unshielded			For wiring in electrical appliances and lighting up to a maximum operating temperature of 180°C.
	HMC4233	1000	305	6.0	2.7	(16x0.20) TPC		20	0.50		0.083	2.10	
	HMC4234	1000	305	7.4	3.4	(24x0.20) TPC		18	0.75		0.091	2.30	
	HMC4235	1000	305	9.4	4.3	(32x0.20) TPC		17	1.00		0.094	2.40	
	HMC4236	1000	305	13.4	6.1	(30x0.25) TPC		16	1.50		0.114	2.90	
	HMC4237	1000	305	21.5	9.8	(50x0.25) TPC		14	2.50		0.138	3.50	
180°C • 20 - 14 AWG • Solid Tin-Plated Copper Wire													
Silicone Halogen-Free Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue) • **VDE reg. no. N2GFA resp. (N)2GFA**													
		IEC 60754-1 VDE 0282 Part 1								Unshielded			
N2GFA													
	HMC4238	1000	305	5.4	2.4	(1x0.80) TPC		20	0.50		0.079	2.00	
	HMC4239	1000	305	7.4	3.4	(1x0.98) TPC		18	0.75		0.083	2.10	
	HMC4240	1000	305	8.7	4.0	(1x1.13) TPC		17	1.00		0.091	2.30	
	HMC4241	1000	305	12.1	5.5	(1x1.38) TPC		16	1.50		0.106	2.70	
	HMC4242	1000	305	19.5	8.8	(1x1.78) TPC		14	2.50		0.130	3.30	

TPC = Tin-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber (Superflex)

Braidless

300/500V, 180°C, peak temp 250°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
180°C • 24 - 2 AWG • Stranded Tin-Plated Copper Wire													
Silicone Halogen-Free Insulation (Brown, Red, Orange, Yellow, Green, Violet, Grey, White, Black and Blue)													
		IEC 60754-1 VDE 0282 Part 1								Unshielded			For wiring at high ambient temperatures, e.g. - Lighting - Domestic appliances - Instrumentation engineering - Mechanical engineering
	HMC4243	1640	500	6.6	3.0	(128x0.05) TPC	24	0.25		0.071	1.80	
	HMC4244	1640	500	11.0	5.0	(256x0.05) TPC	20	0.50		0.087	2.20	
	HMC4245	1640	500	13.2	6.0	(384x0.05) TPC	18	0.75		0.094	2.40	
	HMC4246	1640	500	17.6	8.0	(512x0.05) TPC	17	1.00		0.106	2.70	
	HMC4247	1640	500	24.3	11.0	(392x0.07) TPC	16	1.50		0.122	3.10	
	HMC4248	1640	500	38.6	17.5	(651x0.07) TPC	14	2.50		0.150	3.80	
	HMC4249	1640	500	58.4	26.5	(1040x0.07) TPC	12	4		0.185	4.70	
	HMC4250	1640	500	83.8	38.0	(1560x0.07) TPC	10	6		0.205	5.20	
	HMC4251	1640	500	135.6	61.5	(2600x0.07) TPC	8	10		0.276	7.00	
	HMC4252	1640	500	208.3	94.5	(2048x0.10) TPC	6	16		0.335	8.50	
	HMC4253	1640	500	320.8	145.5	(3200x0.10) TPC	4	25		0.402	10.20	
	HMC4254	1640	500	445.3	202.0	(1120x0.20) TPC	2	35		0.465	11.80	

TPC = Tin-Plated Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber (H05SJ-K)

Glass Braid
300/500V, 180°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application

180°C • 20 AWG - 350 MCM • Stranded Tin-Plated Copper Wire

White Halogen-Free Silicone Insulation • Silicone-Impregnated Glass-Fiber Braid

IEC 60754-1
VDE 0282
Part 1

Overall
Glass-Fiber Braid

For internal wiring at high ambient temperatures, e.g.
- Lighting
- Domestic appliances
- Mechanical engineering



Identification tracer

HMC4255	328	100	2.6	1.2	(16x0.20) TPC	20	0.50		0.106	2.70	
HMC4256	328	100	3.3	1.5	(24x0.20) TPC	18	0.75		0.114	2.90	
HMC4257	328	100	4.0	1.8	(32x0.20) TPC	17	1.00		0.118	3.00	
HMC4258	328	100	4.9	2.2	(30x0.25) TPC	16	1.50		0.138	3.50	
HMC4259	328	100	7.7	3.5	(50x0.25) TPC	14	2.50		0.161	4.10	
HMC4260	328	100	10.8	4.9	(56x0.30) TPC	12	4		0.181	4.60	
HMC4261	328	100	15.0	6.8	(84x0.30) TPC	10	6		0.205	5.20	
HMC4262	328	100	28.9	13.1	(80x0.40) TPC	8	10		0.283	7.20	
HMC4263	328	100	43.4	19.7	(128x0.40) TPC	6	16		0.331	8.40	
HMC4264	164	50	32.5	14.8	(200x0.40) TPC	4	25		0.402	10.20	
HMC4265	164	50	43.4	19.7	(280x0.40) TPC	2	35		0.457	11.60	
HMC4266	164	50	60.6	27.5	(400x0.40) TPC	1	50		0.528	13.40	
HMC4267	164	50	83.9	38.1	(356x0.50) TPC	2/0	70		0.602	15.30	
HMC4268	on request		2211.2	1003.0	(485x0.50) TPC	3/0	95		0.713	18.10	
HMC4269	on request		2731.5	1239.0	(614x0.50) TPC	4/0	120		0.772	19.60	
HMC4270	on request		3386.3	1536.0	(765x0.50) TPC	300 MCM	150		0.843	21.40	
HMC4271	on request		4241.7	1924.0	(944x0.50) TPC	350 MCM	185		0.953	24.20	

Weights for "on request" are for 1 km

180°C • 20 - 8 AWG • Solid Tin-Plated Copper Wire

White Halogen-Free Silicone Insulation • Silicone-impregnated Glass-Fiber Braid

IEC 60754-1
VDE 0282
Part 1

Overall
Glass-Fiber Braid



Identification tracer

HMC4272	328	100	2.4	1.1	(1x0.80) TPC	20	0.50*		0.102	2.60	
HMC4273	328	100	3.1	1.4	(1x0.98) TPC	18	0.75*		0.106	2.70	
HMC4274	328	100	4.0	1.8	(1x1.13) TPC	17	1.00		0.114	2.90	
HMC4275	328	100	5.3	2.4	(1x1.38) TPC	16	1.50		0.150	3.80	
HMC4276	328	100	7.7	3.5	(1x1.78) TPC	14	2.50		0.154	3.90	
HMC4277	328	100	11.5	5.2	(1x2.26) TPC	12	4		0.173	4.40	
HMC4278	328	100	16.3	7.4	(1x2.78) TPC	10	6		0.193	4.90	
HMC4279	328	100	26.7	12.1	(1x3.60) TPC	8	10		0.248	6.30	

* = according to VDE 0282 part 3

TPC = Tin-Plated Copper • DCR = DC resistance

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Glass Braid

250V, 350°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
350°C • 24 - 10 AWG • Stranded Nickel-Plated Copper Wire													
Glass Braid Insulation • Impregnated Glass-Fiber Braid													
										Overall Glass-Fiber Braid			For wiring at high ambient temperatures and increased mechanical stress e.g. - Domestic appliances (stoves, heating plates, ovens) - Extrusion and drying installations - Electric heating systems - Steel and iron fabrication - Glass and ceramic fabrication
 Separator foil													
	HMC4280		328	100	0.8	0.4	(7x0.20) NPC	24	0.22		0.043	1.10	
	HMC4281		328	100	1.2	0.6	(14x0.15) NPC	23	0.25		0.075	1.90	
	HMC4282		328	100	2.4	1.1	(7x0.254) NPC	22	0.34		0.075	1.90	
	HMC4283		328	100	2.9	1.3	(16x0.203) NPC	20	0.50		0.083	2.10	
	HMC4284		328	100	3.7	1.7	(24x0.203) NPC	18	0.75		0.091	2.30	
	HMC4285		328	100	4.9	2.2	(32x0.203) NPC	17	1.00		0.098	2.50	
	HMC4286		328	100	6.0	2.7	(30x0.254) NPC	16	1.50		0.110	2.80	
	HMC4287		328	100	11.0	5.0	(50x0.254) NPC	14	2.50		0.169	4.30	
	HMC4288		328	100	14.6	6.6	(56x0.30) NPC	12	4		0.197	5.00	
	HMC4289		328	100	17.9	8.1	(84x0.30) NPC	10	6		0.224	5.70	

Kapton®

Glass Braid

300/300V, 220°C, Month 300°C, Peak Temp 500°C

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
350°C • 24 - 10 AWG • Stranded Nickel-Plated Copper Wire													
Kapton® Insulation • Impregnated Glass-Fiber Braid													
										Overall Glass-Fiber Braid			For wiring at high ambient temperatures and increased mechanical stress e.g. - Domestic appliances (stoves, heating plates, ovens) - Extrusion and drying installations - Traffic technology
													
	HMC4290		328	100	1.5	0.7	(7x0.20) NPC	24	0.22		0.047	1.20	
	HMC4291		328	100	1.0	0.5	(14x0.15) NPC	23	0.25		0.051	1.30	
	HMC4292		328	100	1.7	0.8	(7x0.254) NPC	22	0.34		0.055	1.40	
	HMC4293		328	100	1.8	0.8	(16x0.203) NPC	20	0.50		0.067	1.70	
	HMC4294		328	100	2.4	1.1	(24x0.203) NPC	18	0.75		0.075	1.90	
	HMC4295		328	100	2.9	1.3	(32x0.203) NPC	17	1.00		0.079	2.00	
	HMC4296		328	100	4.0	1.8	(30x0.254) NPC	16	1.50		0.098	2.50	
	HMC4297		328	100	6.6	3.0	(50x0.254) NPC	14	2.50		0.110	2.80	
	HMC4298		328	100	11.0	5.0	(56x0.30) NPC	12	4		0.138	3.50	
	HMC4299		328	100	14.3	6.5	(84x0.30) NPC	10	6		0.161	4.10	

NPC = Nickel-Plated Copper • DCR = DC resistance • Kapton® is a DuPont trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Mica

Glass and Ceramic Braid
300/500V

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
350°C (peak temp 500°C) • 20 - 10 AWG • Stranded Nickel-Plated Copper Wire													
Mica Insulation • Impregnated Glass-Fiber Braid													
										Overall Glass-Fiber Braid			For wiring at high ambient temperatures and increased operating voltage e.g. - Industrial furnaces - Extrusion and drying installations - Electric heating systems
	HMC4300		328	100	2.9	1.3	(16x0.203) NPC	20	0.50		0.094	2.40	
	HMC4301		328	100	4.0	1.8	(24x0.203) NPC	18	0.75		0.102	2.60	
	HMC4302		328	100	4.9	2.2	(32x0.203) NPC	17	1.00		0.122	3.10	
	HMC4303		328	100	6.6	3.0	(30x0.254) NPC	16	1.50		0.134	3.40	
	HMC4304		328	100	8.6	3.9	(50x0.254) NPC	14	2.50		0.154	3.90	
	HMC4305		328	100	13.0	5.9	(56x0.30) NPC	12	4		0.185	4.70	
	HMC4306		328	100	17.9	8.1	(84x0.30) NPC	10	6		0.213	5.40	
1550°C (short term) • 20 - 8 AWG • Stranded Nickel-Plated Copper Wire													
Mica Insulation • Impregnated Ceramic Braid													
										Overall Ceramic Braid			For wiring at high ambient temperatures and increased mechanical stess e.g. - Glass, steel and iron fabrication - Industrial furnaces - Electric heating systems
	UL approval and other conductor materials (e.g. special alloys) available on request.												
	HMC4307		328	100	2.4	1.1	(16x0.203) NPC	20	0.50		0.094	2.40	
	HMC4308		328	100	4.0	1.8	(24x0.203) NPC	18	0.75		0.098	2.50	
	HMC4309		328	100	5.1	2.3	(32x0.203) NPC	17	1.00		0.126	3.20	
	HMC4310		328	100	6.2	2.8	(30x0.254) NPC	16	1.50		0.142	3.60	
	HMC4311		328	100	10.1	4.6	(50x0.254) NPC	14	2.50		0.154	3.90	
	HMC4312		328	100	15.4	7.0	(56x0.30) NPC	12	4		0.205	5.20	
	HMC4313		328	100	22.9	10.4	(84x0.30) NPC	10	6		0.236	6.00	
	HMC4314		328	100	32.4	14.7	(80x0.40) NPC	8	10		0.291	7.40	

NPC = Nickel-Plated Copper • DCR = DC resistance

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EFGLAS

Glass Braid/PTFE
600V, 260°C

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
260°C • 22 - 0000 AWG • Stranded Nickel-Plated Copper Wire													
EFGLAS Insulation • PTFE-Impregnated Glass Yarn Braid													
		BSG 222 : 1976 acc. MIL-W-22759/3								Unshielded			For wiring at high ambient temperatures and improved abrasion resistance e.g. - Aircraft wiring
	HMC4315		1000	305	5.8	2.6	(19x0.15) NPC	22	0.336		0.081	2.05	
	HMC4316		1000	305	8.2	3.7	(19x0.20) NPC	20	0.597		0.091	2.30	
	HMC4317		1000	305	10.8	4.9	(19x0.25) NPC	18	0.933		0.100	2.55	
	HMC4318		1000	305	13.8	6.3	(19x0.30) NPC	16	1.340		0.110	2.80	
	HMC4319		1000	305	18.1	8.2	(37x0.25) NPC	14	1.820		0.122	3.10	
	HMC4320		1000	305	26.2	11.9	(37x0.32) NPC	12	2.890		0.148	3.75	
	HMC4321		1000	305	44.4	20.1	(37x0.40) NPC	10	4.650		0.187	4.75	
	HMC4322		1000	305	71.2	32.3	(17/7x0.30) NPC	8	8.410		0.246	6.25	
	HMC4323		500	152	58.5	26.5	(26/7x0.30) NPC	6	12.85		0.287	7.30	
	HMC4324		500	152	93.4	42.4	(42/7x0.30) NPC	4	20.75		0.360	9.15	
	HMC4325		500	152	142.5	64.6	(703x0.25) NPC	2	34.49		0.427	10.85	
	HMC4326		500	152	168.0	76.2	(851x0.25) NPC	1	41.75		0.469	11.90	
	HMC4327		500	152	212.4	96.3	(1073x0.25) NPC	0	52.64		0.518	13.15	
	HMC4328		500	152	270.5	122.7	(1369x0.25) NPC	2/0	67.16		0.569	14.45	
	HMC4329		500	152	339.4	154.0	(1728x0.25) NPC	3/0	84.78		0.632	16.05	
	HMC4330		500	152	426.8	193.6	(2196x0.25) NPC	4/0	107.74		0.691	17.55	

NPC = Nickel-Plated Copper • DCR = DC resistance

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BELDEN
SENDING ALL THE RIGHT SIGNALS



4 Multi-Conductor Cables

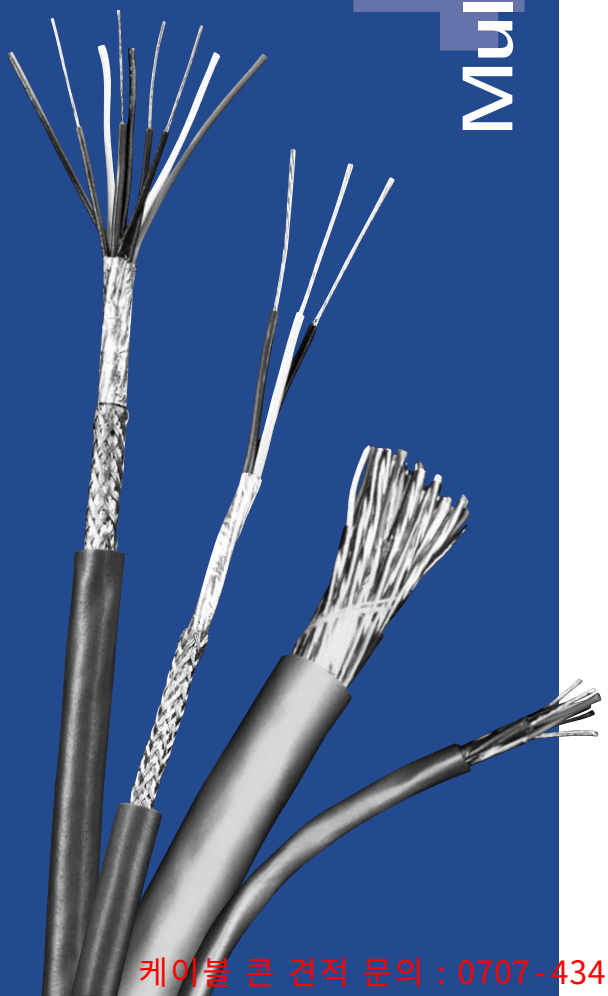


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Please refer to "Terms of Use of Master Catalog" on page 23.22.

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Introduction

Multi Applications Demand Multiple Choice

When the applications are many and the systems different, cable flexibility is vital. Choice means the ability to meet every requirement and every contingency, because every system has different requirements.

Belden's multi-conductor cables meet the technical requirements of many different types of systems. In fact, Belden offers one of the broadest lines of UL-Listed, NEC and CEC multi-conductor cables available from any single source.

Key Applications

- Computers
- Communications
- Instrumentation
- Sound
- Control
- Audio
- Data transmission

Special Features

- Belden multi-conductor cables are offered in many variations including plenum and high-temperature versions. Variations include:
  - Gage sizes
  - Dimensions
  - Insulation materials
  - Shielding configurations
  - Jacketing materials
- Each cable is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.
- Belden's unique UnReel® cable dispenser is available for many of the multi-conductor products listed in this section. The letter "U" before the specified put-up length denotes UnReel® packaging.
- Extended temperature and chemical resistant cable range: a broad range of cables suitable for application in the temperature range from -100°C up to +1550°C.

Availability

Most of our multi-conductor cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a multi-conductor cable in this catalog section that meets your technical requirements, see our U.S. Master Catalog or contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

Selection Guide: Shielded Multi-Conductor Computer Cables for RS-232 Applications

Specifications			Cable Series* 9925	9608	9533	9939
Conductor Size: (AWG)		28				
		24	✓	✓	✓	
		22				✓
		20				
		18				
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Insulation:	S-R PVC			✓	✓	✓
	Polyethylene					
	Polypropylene					
	Datalene®†		✓			
Shield:	Overall Foil				✓	
	Drain Wire		✓		✓	
	Overall Foil/Braid		✓	✓		✓
	Braid Coverage		65%	65%		65%
Drain Wire Overall:			Yes	No	Yes	No
No. of Cond. Available:		1				
		2				
		3	✓	✓	✓	✓
		4	✓	✓	✓	✓
		5	✓	✓	✓	✓
		6	✓	✓	✓	✓
		7	✓	✓	✓	✓
		8	✓	✓	✓	✓
		9	✓	✓	✓	✓
		10	✓	✓	✓	✓
		11				
		12				
		13				
		15	✓	✓	✓	✓
		17				
		18				
		19				
		20			✓	
		25	✓	✓	✓	✓
		27				
		30			✓	
		31				
		37	✓	✓		✓
		40			✓	
		50		✓	✓	✓
Capacitance** (pF/m)			39.4	98.4	98.4	114.8

* All cables are UL-Listed.
** Capacitance may vary on some cables.
† Foam high density polyethylene.

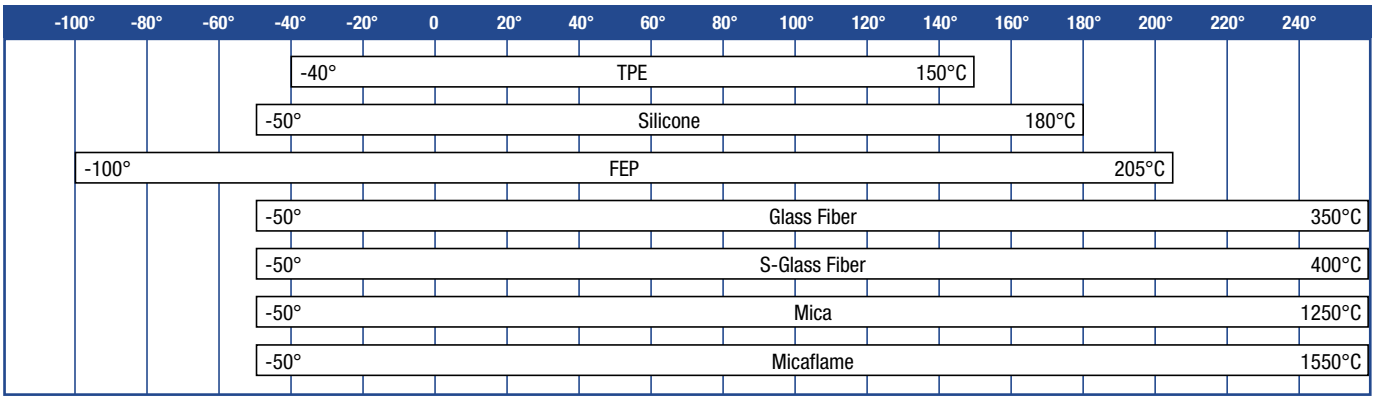
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Introduction

To assist you in selecting the proper cable for your application, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable product in this section.

Extended Temperature and Chemical Resistant Cable Range
Nominal Temperature Operating Ranges (°C)



Index by Voltage and Temperature Rating

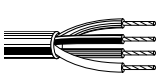
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Unshielded

Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Conductors Cabled													
PVC Insulation • Chrome PVC Jacket													
150V 80°C UL AWM Style 2576		NEC: CMG CEC: CMG FT4					0.76 mm 22 AWG (7x30) TC	0.060	1.52	Unshielded			
													
	8442	2 CDR*	100 U-500 500 U-1000 1000 † 10000	31 U-152 152 U-305 305 3048	2.4 8.2 7.5 15.0 15.0 150.4	1.1 3.7 3.4 6.8 6.8 68.2					0.170	4.32	Black, Red
	For Plenum version of 8442, see 88442 or 82442.												
	8443	3 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	2.6 9.5 9.5 18.1 18.1	1.2 4.3 4.3 8.2 8.2					0.172	4.37	Black, Red, Green
	8444	4 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.1 11.5 11.5 22.0 23.1	1.4 5.2 5.2 10.0 10.5					0.185	4.70	see chart 1 (Tech Info Section)
	For Plenum version of 8444, see 88444 or 82444.												
	8445	5 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.5 13.4 13.4 25.1 26.0	1.6 6.1 6.1 11.4 11.8					0.194	4.93	see chart 1 (Tech Info Section)
	9430	7 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	17.0 17.0 32.0 35.1	7.7 7.7 14.5 15.9					0.214	5.44	see chart 1 (Tech Info Section)
	9421	8 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	4.2 19.2 18.5 35.9 37.9	1.9 8.7 8.4 16.3 17.2					0.229	5.82	see chart 1 (Tech Info Section)
	9423	9 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	4.6 21.2 21.6 41.0 43.0	2.1 9.6 9.8 18.6 19.5					0.244	6.20	see chart 1 (Tech Info Section)
	8456	10 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	5.1 22.5 23.1 44.1 46.1	2.3 10.2 10.5 20.0 20.9					0.264	6.71	see chart 1 (Tech Info Section)
18 AWG • Stranded (19x30) 1.2 mm Tinned Copper • Conductors Cabled													
Plenum • FEP Insulation • Natural Flamarrest® Jacket													
Non-conduit	**82489**	NEC: CMP CEC: CMP FT6	† U-1000 † 1000	U-305 305	31.1 29.1	14.1 13.2	1.24 mm 18 AWG (19x30) TC	0.063	1.60	Unshielded	0.170	4.32	Black, White, Red, Green
 4-Conductor													

TC = Tinned Copper • DCR = DC resistance
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel® from length shown.
* Twisted Pair

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Unshielded

Duplex Primary Wire

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
Duplex Primary Wire Stranded Bare Copper • Conductors Parallel													
PVC Insulation • Chrome PVC Jacket													
300V RMS 75°C VW-1										Unshielded			Brown, Red
	8677	2 CDR	500	152	18.5	8.4	1.47 mm 16 AWG (19x29) BC	0.106	2.69		0.149 x 0.254	3.78 x 6.45	
	8675	2 CDR	500	152	23.6	10.7	1.85 mm 14 AWG (19x27) BC	0.119	3.01		0.168 x 0.290	4.27 x 7.37	
	8673	2 CDR	500	152	32.6	14.8	2.36 mm 12 AWG (19x25) BC	0.145	3.68		0.186 x 0.328	4.72 x 8.33	
	8678	2 CDR	500	152	50.9	23.1	2.9 mm 10 AWG (19x23) BC	0.176	4.48		0.225 x 0.400	5.72 x 10.16	

BC = Bare Copper • DCR = DC resistance

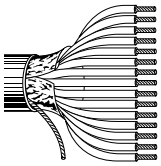
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Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Conductors Cabled • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire																	
Semi-Rigid PVC Insulation • Chrome PVC Jacket																	
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					0.61 mm 24 AWG (7x32) TC	0.044	1.11	Overall Beldfoil® + Drain Wire (24 AWG TC)			–				see chart 1 (Tech Info Section)
	9533	3 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	2.6 9.5 9.0 18.1 18.1	1.2 4.3 4.1 8.2 8.2					0.162	4.11		CDR/CDR CDR/SCR	33 65	108 213	
	9534	4 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.1 11.0 11.5 20.9 22.0	1.4 5.0 5.2 9.5 10.0					0.184	4.67		CDR/CDR CDR/SCR	33 65	108 213	
	9535	5 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.3 11.9 11.0 22.9 22.0	1.5 5.4 5.0 10.4 10.0					0.189	4.80		CDR/CDR CDR/SCR	33 65	108 213	
	9536	6 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.5 14.6 12.6 27.1 29.1	1.6 6.6 5.7 12.3 13.2					0.209	5.31		CDR/CDR CDR/SCR	33 65	108 213	
	9537	7 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.7 15.0 13.7 29.1 30.2	1.7 6.8 6.2 13.2 13.7					0.209	5.31		CDR/CDR CDR/SCR	33 65	108 213	
	9538	8 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.7 17.0 15.0 32.2 34.0	1.7 7.7 6.8 14.6 15.4					0.224	5.69		CDR/CDR CDR/SCR	33 65	108 213	
	9539	9 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	4.2 20.1 17.2 37.3 38.1	1.9 9.1 7.8 16.9 17.3					0.244	6.20		CDR/CDR CDR/SCR	30 55	98 180	
	9540	10 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	4.4 19.6 18.1 37.9 36.2	2.0 8.9 8.2 17.2 16.4					0.244	6.20		CDR/CDR CDR/SCR	30 55	98 180	



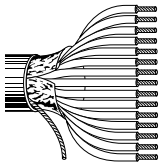
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm TC • Conductors Cabled • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire *(continued)*																	
Semi-Rigid PVC Insulation • Chrome PVC Jacket																	
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					0.61 mm 24 AWG (7x32) TC	0.044	1.11	Overall Beldfoil® + Drain Wire (24 AWG TC)			–				see chart 2R (Tech Info Section)
																	
9541	15 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	6.0 27.6 28.0 54.0 56.0	2.7 12.5 12.7 24.5 25.4					0.284	7.21		CDR/CDR CDR/SCR	30 55	98 180	
9542	20 CDR	100 U-500 500 1000	31 U-152 152 305	7.3 34.0 35.5 69.0	3.3 15.4 16.1 31.3					0.314	7.98		CDR/CDR CDR/SCR	30 55	98 180	
9543	25 CDR	100 500 1000	31 152 305	8.8 44.1 86.0	4.0 20.0 39.0					0.339	8.61		CDR/CDR CDR/SCR	30 55	98 180	
9544	30 CDR	100 500 1000	31 152 305	10.4 51.6 102.1	4.7 23.4 46.3					0.380	9.65		CDR/CDR CDR/SCR	30 55	98 180	
9545	40 CDR	100 500 1000	31 152 305	13.4 65.0 130.1	6.1 29.5 59.0					0.430	10.92		CDR/CDR CDR/SCR	30 55	98 180	
9546	50 CDR	100 500 1000	31 152 305	16.3 81.6 168.2	7.4 37.0 76.3					0.490	12.45		CDR/CDR CDR/SCR	30 55	98 180	

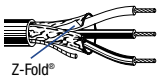
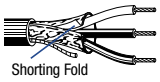
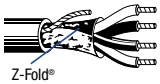
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Conductors Cabled • Overall **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire																	
Polyethylene Insulation • Chrome PVC Jacket																	
300V 60°C UL AWM Style 2093	**8772**	NEC: CM CEC: CM	U-500 500 U-1000 1000	U-152 152 U-305 305	16.1 16.1 31.1 32.0	7.3 7.3 14.1 14.5	0.96 mm 20 AWG (7x28) TC	0.070	1.78	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.218	5.54	–	CDR/CDR CDR/SCR	27 51	89 167	Black, Red, Clear
 Z-Fold®																	
3 CDR																	
18 AWG • Stranded (16x30) 1.2 mm Tinned Copper • Conductors Cabled • Overall **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire																	
Polyethylene Insulation • Chrome PVC Jacket																	
300V 60°C UL AWM Style 2093	**8770**	NEC: CM CEC: CM †† 10000	U-500 500 U-1000 1000	U-152 152 U-305 305 3048	20.1 20.5 37.9 40.1 431.0	9.1 9.3 17.2 18.2 195.5	1.20 mm 18 AWG (16x30) TC	0.083	2.12	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.246	6.25	–	CDR/CDR CDR/SCR	24 48	79 157	Black, Red, Clear
 Shorting Fold																	
For Plenum version of 8770, see 88770.																	
3 CDR																	
18 AWG • Stranded (19x30) 1.2 mm Tinned Copper • Conductors Cabled • Overall **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire																	
Semi-Rigid PVC Insulation • Chrome PVC Jacket																	
300V 80°C UL AWM Style 2464	**9418**	NEC: CMG CEC: CMG FT4	100 U-500 500 U-1000 1000 †† 10000	31 U-152 152 U-305 305 3048	5.7 18.1 24.5 35.3 52.2 509.9	2.6 8.2 11.1 16.0 23.7 231.3	1.24 mm 18 AWG (19x30) TC	0.069	1.74	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.245	6.22	–	CDR/CDR CDR/SCR	70 120	230 394	Red, Green, Black, White
 Z-Fold®																	
For Plenum versions of 9418, see 89418 or 82418.																	
4 CDR																	

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
†† Final put-up may vary -10% to +20%. May contain 2 pieces. Min. length 460 m.

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Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded Conductors (7x32) 0.6 mm Tinned Copper • Overall **Beldfoil®** Shield + 65 % Tinned Copper Braid																	
Semi-Rigid PVC Insulation • Chrome PVC Jacket																	
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					0.61 mm 24 AWG (7x32) TC	0.044	1.12	Overall Beldfoil® + Overall 65 % TC Braid			–				
 Z-Fold®																	
9608	3 CDR		100 500 1000	31 152 305	3.1 11.9 22.9	1.4 5.4 10.4					0.190	4.83		CDR/CDR CDR/SCR	35 65	115 213	see chart 1 (Tech Info Section)
9609	4 CDR		100 500 1000	31 152 305	3.5 13.4 26.0	1.6 6.1 11.8					0.200	5.08		CDR/CDR CDR/SCR	35 65	115 213	see chart 1 (Tech Info Section)
9610	5 CDR		100 500 1000	31 152 305	4.0 16.1 32.0	1.8 7.3 14.5					0.215	5.46		CDR/CDR CDR/SCR	35 65	115 213	see chart 1 (Tech Info Section)
9611	6 CDR		100 500 1000	31 152 305	4.2 17.0 34.0	1.9 7.7 15.4					0.225	5.72		CDR/CDR CDR/SCR	30 55	98 180	see chart 1 (Tech Info Section)
9612	7 CDR		100 500 1000	31 152 305	4.2 18.5 38.1	1.9 8.4 17.3					0.225	5.72		CDR/CDR CDR/SCR	30 55	98 180	see chart 1 (Tech Info Section)
9613	8 CDR		100 500 1000	31 152 305	4.4 20.9 41.0	2.0 9.5 18.6					0.240	6.10		CDR/CDR CDR/SCR	30 55	88 180	see chart 1 (Tech Info Section)
9614	9 CDR		100 500 1000	31 152 305	4.9 22.0 44.1	2.2 10.0 20.0					0.253	6.43		CDR/CDR CDR/SCR	30 55	98 180	see chart 1 (Tech Info Section)
9615	10 CDR		100 500 1000	31 152 305	5.5 25.1 50.0	2.5 11.4 22.7					0.270	6.86		CDR/CDR CDR/SCR	30 55	98 180	see chart 1 (Tech Info Section)
9616	15 CDR		100 500 1000	31 152 305	6.6 31.5 63.1	3.0 14.3 28.6					0.300	7.62		CDR/CDR CDR/SCR	30 55	98 180	see chart 2R (Tech Info Section)
9617	25 CDR		100 500 1000	31 152 305	10.1 49.6 100.1	4.6 22.5 45.4					0.370	9.40		CDR/CDR CDR/SCR	30 55	98 180	see chart 2R (Tech Info Section)
9618	37 CDR		100 500 1000	31 152 305	13.2 66.6 135.1	6.0 30.2 61.3					0.411	10.43		CDR/CDR CDR/SCR	30 55	98 180	see chart 2R (Tech Info Section)
9619	50 CDR		100 500 1000	31 152 305	17.2 93.0 182.1	7.8 42.2 82.6					0.485	12.32		CDR/CDR CDR/SCR	30 55	98 180	see chart 2R (Tech Info Section)

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
22 AWG • Stranded Conductors (7x30) 0.8 mm Tinned Copper • Overall **Beldfoil®** Shield + 65% Tinned Copper Braid																	
Semi-Rigid PVC Insulation • Chrome PVC Jacket																	
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					0.76 mm 22 AWG (7x30) TC	0.051	1.30	Overall Beldfoil® + Overall 65% TC Braid			–				
 Z-Fold®																	
9939	3 CDR	100 500 1000	31 152 305	3.5 12.1 24.0	1.6 5.5 10.9					0.202	5.13		CDR/CDR CDR/SCR	37 67	121 220	see chart 1 (Tech Info Section)
9940	4 CDR	100 500 1000	31 152 305	4.0 14.6 32.0	1.8 6.6 14.5					0.215	5.46		CDR/CDR CDR/SCR	37 67	121 220	see chart 1 (Tech Info Section)
9941	5 CDR	100 500 1000	31 152 305	4.0 16.1 38.1	1.8 7.3 17.3					0.230	5.84		CDR/CDR CDR/SCR	37 67	121 220	see chart 1 (Tech Info Section)
9942	6 CDR	100 500 1000	31 152 305	4.6 22.0 43.0	2.1 10.0 19.5					0.245	6.22		CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9943	7 CDR	100 500 1000	31 152 305	5.1 23.8 46.1	2.3 10.8 20.9					0.245	6.22		CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9944	8 CDR	100 500 1000	31 152 305	5.5 26.0 52.0	2.5 11.8 23.6					0.260	6.60		CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9945	9 CDR	100 500 1000	31 152 305	6.2 28.4 57.1	2.8 12.9 25.9					0.280	7.11		CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9946	10 CDR	100 500 1000	31 152 305	6.6 31.5 61.9	3.0 14.3 28.1					0.300	7.62		CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9947	15 CDR	100 500 1000	31 152 305	8.8 42.5 83.1	4.0 19.3 37.7					0.340	8.64		CDR/CDR CDR/SCR	35 63	115 207	see chart 2R (Tech Info Section)
9948	25 CDR	100 500 1000	31 152 305	13.3 66.6 132.1	6.0 30.2 59.9					0.410	10.41		CDR/CDR CDR/SCR	35 63	115 207	see chart 2R (Tech Info Section)
9949	37 CDR	100 500 1000	31 152 305	16.1 87.5 180.1	7.3 39.7 81.7					0.460	11.68		CDR/CDR CDR/SCR	35 63	115 207	see chart 2R (Tech Info Section)
9950	50 CDR	100 500 1000	31 152 305	25.1 118.2 238.3	11.4 53.6 108.1					0.555	14.10		CDR/CDR CDR/SCR	35 63	115 207	see chart 2R (Tech Info Section)

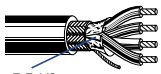
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded Conductors (7x32) 0.6 mm Tinned Copper • Overall **Beldfoil®** Shield + 65% Tinned Copper Braid • 24 AWG TC Drain Wire																	
Datalene® Insulation • Chrome PVC Jacket																	
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.053	1.35	Overall Beldfoil® + Overall 65% TC Braid + Drain Wire (24 AWG TC)			78%				
 Z-Fold®																	
9925	3 CDR		100 500 1000	31 152 305	3.5 12.1 24.0	1.6 5.5 10.9					0.215	5.46		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
9927	4 CDR		100 500 1000	31 152 305	3.5 14.6 32.0	1.6 6.6 14.5					0.230	5.84		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
9929	5 CDR		100 500 1000	31 152 305	4.0 16.1 35.9	1.8 7.3 16.3					0.246	6.25		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
9931	6 CDR		100 500 1000 10000	31 152 305 3048	4.2 17.6 39.0 410.3	1.9 8.0 17.7 186.1					0.265	6.73		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
9932	7 CDR		100 500 1000	31 152 305	4.4 18.5 41.0	2.0 8.4 18.6					0.265	6.73		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
9633	8 CDR		100 500 1000 10000	31 152 305 3048	4.9 21.2 46.1 480.4	2.2 9.6 20.9 217.9					0.280	7.11		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
9934	9 CDR		100 500 1000	31 152 305	5.3 22.0 48.1	2.4 10.0 21.8					0.300	7.62		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
9935	10 CDR		100 500 1000	31 152 305	5.7 28.0 53.1	2.6 12.7 24.1					0.306	7.77		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
9636	15 CDR		100 500 1000	31 152 305	7.3 35.1 68.1	3.3 15.9 30.9					0.350	8.89		CDR/CDR CDR/SCR	12 22	39 72	see chart 2R (Tech Info Section)
9937	25 CDR		100 500 1000	31 152 305	9.9 54.7 108.0	4.5 24.8 49.0					0.445	11.30		CDR/CDR CDR/SCR	12 22	39 72	see chart 2R (Tech Info Section)
9938	37 CDR		100 500 1000	31 152 305	13.0 71.6 139.1	5.9 32.5 63.1					0.500	12.70		CDR/CDR CDR/SCR	12 22	39 72	see chart 2R (Tech Info Section)

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded Conductors (7x32) 0.6 mm Tinned Copper • Conductors Cabled • Overall **Beldfoil®** Shield + 85% Tinned Copper Braid																	
Plenum • FEP Insulation • Red FEP Jacket																	
300V RMS Non-conduit		NEC: CMP CEC: CMP FT6					0.61 mm 24 AWG (7x32) TC	0.036	0.91	Overall Beldfoil® + Overall 85% TC Braid			–				see chart 2 (Tech Info Section)
																	
	83503	3 CDR	† 500 † 1000	152 305	9.5 16.1	4.3 7.3					0.135	3.43		CDR/CDR CDR/SCR	20 36	66 118	
	83504	4 CDR	100 † 500 † 1000	31 152 305	3.5 10.1 20.1	1.6 4.6 9.1					0.144	3.66		CDR/CDR CDR/SCR	20 36	66 118	
	83506	6 CDR	† 500 † 1000	152 305	13.2 26.2	6.0 11.9					0.165	4.19		CDR/CDR CDR/SCR	20 36	66 118	
22 AWG • Stranded Conductors (7x30) 0.8 mm Tinned Copper • Conductors Cabled • Overall **Beldfoil®** Shield + 85% Tinned Copper Braid																	
Plenum • FEP Insulation • Red FEP Jacket																	
300V RMS Non-conduit		NEC: CMP CEC: CMP FT6					0.76 mm 22 AWG (7x30) TC	0.042	1.06	Overall Beldfoil® + Overall 85% TC Braid			–				see chart 2 (Tech Info Section)
																	
	83552	2 CDR	† 500 † 1000	152 305	8.2 16.1	3.7 7.3					0.141	3.58		CDR/CDR CDR/SCR	23 40	75 131	
	83553	3 CDR	100 † 500 † 1000	31 152 305	3.5 11.5 20.1	1.6 5.2 9.1					0.148	3.76		CDR/CDR CDR/SCR	23 40	75 131	
	83554	4 CDR	100 † 500 † 1000	31 152 305	4.0 12.6 25.1	1.8 5.7 11.4					0.159	4.04		CDR/CDR CDR/SCR	23 40	75 131	
	83556	6 CDR	100 † 500 † 1000	31 152 305	5.3 16.5 35.9	2.4 7.5 16.3					0.183	4.65		CDR/CDR CDR/SCR	23 40	75 131	
	83559	9 CDR	100 † 500 † 1000	31 152 305	6.8 23.1 50.0	3.1 10.5 22.7					0.209	5.31		CDR/CDR CDR/SCR	23 40	75 131	
	83562	12 CDR	† 500 † 1000	152 305	28.7 60.0	13.0 27.2					0.234	5.94		CDR/CDR CDR/SCR	23 40	75 131	
	83569	19 CDR	100 † 500 † 1000	31 152 305	9.7 44.1 85.1	4.4 20.0 38.6					0.269	6.83		CDR/CDR CDR/SCR	23 40	75 131	

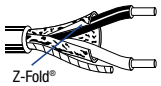
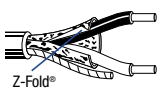
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Spools are one piece, but length may vary ± 10% from length shown.

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Fire Alarm

Power-Limited Fire Protective Signaling Circuit Cables
Subject 1424 (NEC Article 760, Type FPLR)

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Solid 1.0 mm Bare Copper • Conductors Cabled													
PVC Insulation • Red PVC Jacket													
300V 105°C UL AWM Style 2464 & 1424	**9571**	NEC: MPR, FPLR CEC: FAS 105 FT4	U-500 U-1000	U-152 U-305	14.6 28.0	6.6 12.7	1.02 mm 18 AWG Solid BC	0.074	1.88	Unshielded	0.228	5.79	Black, Red
													
2 CDR													
18 AWG • Solid 1.0 mm Bare Copper • Conductors Cabled • Overall **Beldfoil®** Shield • 22 AWG Tinned Copper Drain Wire													
PVC Insulation • Red PVC Jacket													
300V 105°C UL AWM Style 2464 & 1424		NEC: MPR, FPLR CEC: FAS 105 FT4					1.02 mm 18 AWG Solid BC	0.074	1.88	Overall Beldfoil® + Drain Wire (22 AWG TC)			
 Z-Fold®													
	9574	2 CDR	U-500 U-1000	U-152 U-305	16.1 31.1	7.3 14.1					0.231	5.87	Black, Red
	9578	4 CDR	U-500 1000	U-152 305	25.6 51.1	11.6 23.2					0.263	6.68	Black, Red, Yellow, Light Blue
16 AWG • Solid 1.3 mm Bare Copper • Conductors Cabled													
PVC Insulation • Red PVC Jacket													
300V 105°C UL AWM Style 2464 & 1424	**9572**	NEC: MPR, FPLR CEC: FAS 105 FT4	U-500 U-1000	U-152 U-305	18.1 35.1	8.2 15.9	1.29 mm 16 AWG Solid BC	0.087	2.21	Unshielded	0.250	6.35	Black, Red
													
2 CDR													
16 AWG • Solid 1.3 mm Bare Copper • Conductors Cabled • Overall **Beldfoil®** Shield • 22 AWG Tinned Copper Drain Wire													
PVC Insulation • Red PVC Jacket													
300V 105°C UL AWM Style 2464 & 1424		NEC: MPR, FPLR CEC: FAS 105 FT4					1.29 mm 16 AWG Solid BC	0.087	2.21	Overall Beldfoil® + Drain Wire (22 AWG TC)			
 Z-Fold®													
	9575	2 CDR	U-500 U-1000	U-152 U-305	20.1 39.0	9.1 17.7					0.253	6.43	Black, Red
	9579	4 CDR	U-500 1000	U-152 305	35.5 72.1	16.1 32.7					0.301	7.65	Black, Red, Yellow, Light Blue

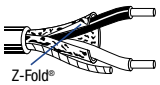
TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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Fire Alarm

Power-Limited Fire Protective Signaling Circuit Cables
Subject 1424 (NEC Article 760, Type FPLR)

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
14 AWG • Solid 1.6 mm Bare Copper • Conductors Cabled													
PVC Insulation • Red PVC Jacket													
300V 105°C UL Style 1424	**9580**	NEC: FPLR CEC: FAS 105 FT4	U-500 1000	U-152 305	27.1 54.0	12.3 24.5	1.63 mm 14 AWG Solid BC	0.108	2.75	Unshielded	0.306	7.77	Black, Red
 2 CDR													
14 AWG • Solid 1.6 mm Bare Copper • Conductors Cabled • Overall **Beldfoil®** Shield • 16 AWG Tinned Copper Drain Wire													
PVC Insulation • Red PVC Jacket													
300V 105°C UL Style 1424	**9581**	NEC: FPLR CEC: FAS 105 FT4	U-500 1000	U-152 305	32.4 65.0	14.7 29.5	1.63 mm 14 AWG Solid BC	0.108	2.75	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.306	7.77	Black, Red
 2 CDR													
12 AWG • Solid 2.1 mm Bare Copper • Conductors Cabled													
PVC Insulation • Red PVC Jacket													
300V 105°C UL Style 1424	**9582**	NEC: FPLR CEC: FAS 105 FT4	1000	305	75.2	34.1	2.05 mm 12 AWG Solid BC	0.125	3.17	Unshielded	0.340	8.64	Black, Red
 2 CDR													
12 AWG • Solid 2.1 mm Bare Copper • Conductors Cabled • Overall **Beldfoil®** Shield • 16 AWG Tinned Copper Drain Wire													
PVC Insulation • Red PVC Jacket													
300V 105°C UL Style 1424	**9583**	NEC: FPLR CEC: FAS 105 FT4	1000	305	85.1	38.6	2.05 mm 12 AWG Solid BC	0.125	3.17	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.343	8.71	Black, Red
 Z-Fold® 2 CDR													

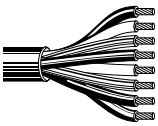
TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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TPE

Multicore Cables
300V, 150°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
150°C • 18 - 16 AWG • Stranded Tinned Copper													
TPE Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Black TPE Jacket**													
										Unshielded			- Traffic and automotive - Installations in buildings - Instrumentation engineering - Robotics - Tool and mechanical engineering
													
Also available on request with Bare Copper conductor for 135°C.													
	HMC0001	2	1640	500	32.0	14.5	(24x0.20) TC	18	0.75		0.165	4.20	
	HMC0002	3	1640	500	39.7	18.0	(24x0.20) TC	18	0.75		0.177	4.50	
	HMC0003	4	1640	500	51.8	23.5	(24x0.20) TC	18	0.75		0.201	5.10	
	HMC0004	5	1640	500	65.0	29.5	(24x0.20) TC	18	0.75		0.220	5.60	
	HMC0005	7	1640	500	82.7	37.5	(24x0.20) TC	18	0.75		0.240	6.10	
	HMC0006	2	1640	500	40.8	18.5	(32x0.20) TC	17	1.00		0.189	4.80	
	HMC0007	3	1640	500	51.8	23.5	(32x0.20) TC	17	1.00		0.201	5.10	
	HMC0008	4	1640	500	63.9	29.0	(32x0.20) TC	17	1.00		0.217	5.50	
	HMC0009	5	1640	500	77.2	35.0	(32x0.20) TC	17	1.00		0.240	6.10	
	HMC0010	7	1640	500	105.8	48.0	(32x0.20) TC	17	1.00		0.268	6.80	
	HMC0011	2	1640	500	52.9	24.0	(30x0.25) TC	16	1.50		0.209	5.30	
	HMC0012	3	1640	500	68.3	31.0	(30x0.25) TC	16	1.50		0.220	5.60	
	HMC0013	4	1640	500	86.0	39.0	(30x0.25) TC	16	1.50		0.244	6.20	
	HMC0014	5	1640	500	110.2	50.0	(30x0.25) TC	16	1.50		0.276	7.00	
	HMC0015	7	1640	500	142.2	64.5	(30x0.25) TC	16	1.50		0.299	7.60	

TC = Tinned Copper • DCR = DC resistance

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TPE

Multicore Cables
300V, 150°C

De-scription	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
150°C • 26 - 20 AWG • Stranded Tinned Copper • Separator Foil • Overall Tinned Copper Braid													
TPE Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Black TPE Jacket**													
										Overall TC Braid			- Traffic and automotive - Installations in buildings - Instrumentation engineering - Robotics - Tool and mechanical engineering
													
Also available on request with Bare Copper conductor for 135°C.													
	HMC0016	2	1640	500	19.3	8.8	(19x0.107) TC	26	0.14		0.138	3.50	
	HMC0017	3	1640	500	23.5	10.7	(19x0.107) TC	26	0.14		0.146	3.70	
	HMC0018	4	1640	500	27.0	12.3	(19x0.107) TC	26	0.14		0.157	4.00	
	HMC0019	5	1640	500	36.6	16.6	(19x0.107) TC	26	0.14		0.169	4.30	
	HMC0020	6	1640	500	40.8	18.5	(19x0.107) TC	26	0.14		0.189	4.80	
	HMC0021	7	1640	500	50.7	23.0	(19x0.107) TC	26	0.14		0.189	4.80	
	HMC0022	2	1640	500	23.1	10.5	(19x0.127) TC	24	0.25		0.150	3.80	
	HMC0023	3	1640	500	27.6	12.5	(19x0.127) TC	24	0.25		0.157	4.00	
	HMC0024	4	1640	500	33.1	15.0	(19x0.127) TC	24	0.25		0.169	4.30	
	HMC0025	5	1640	500	45.2	20.5	(19x0.127) TC	24	0.25		0.193	4.90	
	HMC0026	6	1640	500	48.5	22.0	(19x0.127) TC	24	0.25		0.205	5.20	
	HMC0027	7	1640	500	51.8	23.5	(19x0.127) TC	24	0.25		0.205	5.20	
	HMC0028	2	1640	500	28.7	13.0	(19x0.160) TC	22	0.34		0.161	4.10	
	HMC0029	3	1640	500	34.2	15.5	(19x0.160) TC	22	0.34		0.169	4.30	
	HMC0030	4	1640	500	41.9	19.0	(19x0.160) TC	22	0.34		0.189	4.80	
	HMC0031	5	1640	500	56.2	25.5	(19x0.160) TC	22	0.34		0.209	5.30	
	HMC0032	6	1640	500	63.9	29.0	(19x0.160) TC	22	0.34		0.220	5.60	
	HMC0033	7	1640	500	66.1	30.0	(19x0.160) TC	22	0.34		0.220	5.60	
	HMC0034	2	1640	500	37.5	17.0	(19x0.203) TC	20	0.50		0.177	4.50	
	HMC0035	3	1640	500	48.5	22.0	(19x0.203) TC	20	0.50		0.193	4.90	
	HMC0036	4	1640	500	59.5	27.0	(19x0.203) TC	20	0.50		0.209	5.30	
	HMC0037	5	1640	500	73.9	33.5	(19x0.203) TC	20	0.50		0.228	5.80	
	HMC0038	6	1640	500	88.2	40.0	(19x0.203) TC	20	0.50		0.248	6.30	
	HMC0039	7	1640	500	93.7	42.5	(19x0.203) TC	20	0.50		0.248	6.30	

TC = Tinned Copper • DCR = DC resistance

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Silicone Rubber

Multicore Cables

300/500V, 180°C, peak temp 250°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application

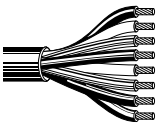
180°C • 18 - 14 AWG • Stranded Tinned Copper Wire

Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Red-Brown FRNC/LSNH Jacket**

IEC 60754-1
VDE 0282
Part 1

Unshielded

Industrial areas with increased temperature requirements, e.g.
- Mechanical engineering
- Traffic technology
- Lighting industry
- Sauna and solarium
- Glass and ceramic fabrication
- Steel and iron fabrication



Also available on request with Bare Copper conductor for 135°C.

HMC0040	2	1640	500	55.1	25.0	(24x0.20) TC	18	0.75	0.240	6.10	
HMC0041	3	1640	500	68.3	31.0	(24x0.20) TC	18	0.75	0.260	6.60	
HMC0042	4	1640	500	79.4	36.0	(24x0.20) TC	18	0.75	0.283	7.20	
HMC0043	5	1640	500	108.0	49.0	(24x0.20) TC	18	0.75	0.319	8.10	
HMC0044	2	1640	500	70.5	32.0	(32x0.20) TC	17	1.00	0.260	6.60	
HMC0045	3	1640	500	80.5	36.5	(32x0.20) TC	17	1.00	0.276	7.00	
HMC0046	4	1640	500	97.0	44.0	(32x0.20) TC	17	1.00	0.299	7.60	
HMC0047	5	1640	500	115.7	52.5	(32x0.20) TC	17	1.00	0.335	8.50	
HMC0048	2	1640	500	92.6	42.0	(30x0.25) TC	16	1.50	0.307	7.80	
HMC0049	3	1640	500	111.3	50.5	(30x0.25) TC	16	1.50	0.323	8.20	
HMC0050	4	1640	500	138.9	63.0	(30x0.25) TC	16	1.50	0.358	9.10	
HMC0051	5	1640	500	173.1	78.5	(30x0.25) TC	16	1.50	0.394	10.00	
HMC0052	2	1640	500	136.7	62.0	(50x0.25) TC	14	2.50	0.362	9.20	
HMC0053	3	1640	500	173.1	78.5	(50x0.25) TC	14	2.50	0.382	9.70	
HMC0054	4	1640	500	216.1	98.0	(50x0.25) TC	14	2.50	0.425	10.80	
HMC0055	5	1640	500	262.3	119.0	(50x0.25) TC	14	2.50	0.472	12.0	

TC = Tinned Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

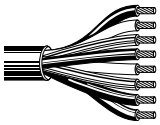
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber

Multicore Cables

300/500V, 180°C, peak temp 250°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 18 - 14 AWG • Stranded Tinned Copper Wire													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Red-Brown FRNC/LSNH Jacket**													
		IEC 60754-1 VDE 0282 Part 1								Unshielded			Industrial areas with increased temperature requirements and VDE-approval, e.g. - Mechanical engineering - Traffic technology - Lighting industry - Sauna and solarium - Glass and ceramic fabrication - Steel and iron fabrication
	HMC0056	6	1640	500	122.4	55.5	(24x0.20) TC	18	0.75		0.343	8.70	
	HMC0057	7	1640	500	124.6	56.5	(24x0.20) TC	18	0.75		0.343	8.70	
	HMC0058	8	1640	500	145.5	66.0	(24x0.20) TC	18	0.75		0.378	9.60	
	HMC0059	10	1640	500	178.6	81.0	(24x0.20) TC	18	0.75		0.429	10.90	
	HMC0060	12	1640	500	203.9	92.5	(24x0.20) TC	18	0.75		0.449	11.40	
	HMC0061	14	1640	500	239.2	108.5	(24x0.20) TC	18	0.75		0.492	12.50	
	HMC0062	16	1640	500	273.4	124.0	(24x0.20) TC	18	0.75		0.520	13.20	
	HMC0063	18	1640	500	309.7	140.5	(24x0.20) TC	18	0.75		0.555	14.10	
	HMC0064	20	1640	500	325.2	147.5	(24x0.20) TC	18	0.75		0.571	14.50	
	HMC0065	24	1640	500	390.2	177.0	(24x0.20) TC	18	0.75		0.634	16.10	
	HMC0066	25	1640	500	425.5	193.0	(24x0.20) TC	18	0.75		0.673	17.10	
	HMC0067	6	1640	500	143.3	65.0	(32x0.20) TC	17	1.00		0.374	9.50	
	HMC0068	7	1640	500	157.6	71.5	(32x0.20) TC	17	1.00		0.374	9.50	
	HMC0069	8	1640	500	176.4	80.0	(32x0.20) TC	17	1.00		0.402	10.20	
	HMC0070	10	1640	500	216.1	98.0	(32x0.20) TC	17	1.00		0.457	11.60	
	HMC0071	12	1640	500	246.9	112.0	(32x0.20) TC	17	1.00		0.484	12.30	
	HMC0072	14	1640	500	288.8	131.0	(32x0.20) TC	17	1.00		0.531	13.50	
	HMC0073	16	1640	500	329.6	149.5	(32x0.20) TC	17	1.00		0.559	14.20	
	HMC0074	18	1640	500	374.8	170.0	(32x0.20) TC	17	1.00		0.598	15.20	
	HMC0075	20	1640	500	396.8	180.0	(32x0.20) TC	17	1.00		0.614	15.60	
	HMC0076	24	1640	500	472.9	214.5	(32x0.20) TC	17	1.00		0.681	17.30	
	HMC0077	25	1640	500	503.8	228.5	(32x0.20) TC	17	1.00		0.724	18.40	
	HMC0078	6	1640	500	201.7	91.5	(30x0.25) TC	16	1.50		0.437	11.10	
	HMC0079	7	1640	500	211.6	96.0	(30x0.25) TC	16	1.50		0.437	11.10	
	HMC0080	8	1640	500	251.3	114.0	(30x0.25) TC	16	1.50		0.480	12.20	
	HMC0081	10	1640	500	307.5	139.5	(30x0.25) TC	16	1.50		0.543	13.80	
	HMC0082	12	1640	500	354.9	161.0	(30x0.25) TC	16	1.50		0.567	14.40	
	HMC0083	14	1640	500	407.9	185.0	(30x0.25) TC	16	1.50		0.618	15.70	
	HMC0084	16	1640	500	466.3	211.5	(30x0.25) TC	16	1.50		0.661	16.80	
	HMC0085	18	1640	500	511.5	232.0	(30x0.25) TC	16	1.50		0.697	17.70	



TC = Tinned Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

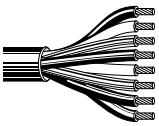
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber

Multicore Cables

300/500V, 180°C, peak temp 250°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
180°C • 18 - 14 AWG • Stranded Tinned Copper Wire *(continued)*													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Red-Brown FRNC/LSNH Jacket**													
		IEC 60754-1 VDE 0282 Part 1								Unshielded			Industrial areas with increased temperature requirements and VDE-approval, e.g. - Mechanical engineering - Traffic technology - Lighting industry - Sauna and solarium - Glass and ceramic fabrication - Steel and iron fabrication
	HMC0086	20	1640	500	565.5	256.5	(30x0.25) TC	16	1.50		0.724	18.40	
	HMC0087	24	1640	500	677.9	307.5	(30x0.25) TC	16	1.50		0.803	20.40	
	HMC0088	25	1640	500	720.9	327.0	(30x0.25) TC	16	1.50		0.850	21.60	
	HMC0089	6	1640	500	307.5	139.5	(50x0.25) TC	14	2.50		0.516	13.10	
	HMC0090	7	1640	500	319.7	145.0	(50x0.25) TC	14	2.50		0.516	13.10	
	HMC0091	8	1640	500	375.9	170.5	(50x0.25) TC	14	2.50		0.567	14.40	
	HMC0092	10	1640	500	458.6	208.0	(50x0.25) TC	14	2.50		0.642	16.30	
	HMC0093	12	1640	500	544.5	247.0	(50x0.25) TC	14	2.50		0.677	17.20	
	HMC0094	14	1640	500	621.7	282.0	(50x0.25) TC	14	2.50		0.740	18.80	
	HMC0095	16	1640	500	703.3	319.0	(50x0.25) TC	14	2.50		0.791	20.10	
	HMC0096	18	1640	500	736.3	334.0	(50x0.25) TC	14	2.50		0.831	21.10	
	HMC0097	20	1640	500	867.5	393.5	(50x0.25) TC	14	2.50		0.862	21.90	
	HMC0098	24	1640	500	1031.8	468.0	(50x0.25) TC	14	2.50		0.957	24.30	
	HMC0099	25	1640	500	1069.2	485.0	(50x0.25) TC	14	2.50		1.016	25.80	



TC = Tinned Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

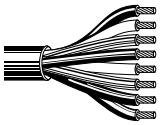
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber (H05SS-F)

Multicore Cables

300/500V, 180°C, peak temp 250°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
180°C • 18 - 10 AWG • Stranded Tinned Copper Wire													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Red-Brown FRNC/LSNH Jacket**													
		IEC 60754-1 VDE 0282 Part 15								Unshielded			Industrial areas with increased temperature requirements and VDE-approval, e.g. - Mechanical engineering - Traffic technology - Lighting industry - Sauna and solarium - Glass and ceramic fabrication - Steel and iron fabrication
HMC0100		2	1640	500	55.1	25.0	(24x0.20) TC	18	0.75		0.240	6.10	
HMC0101		3	1640	500	68.3	31.0	(24x0.20) TC	18	0.75		0.260	6.60	
HMC0102		4	1640	500	79.4	36.0	(24x0.20) TC	18	0.75		0.283	7.20	
HMC0103		5	1640	500	108.0	49.0	(24x0.20) TC	18	0.75		0.319	8.10	
HMC0104		2	1640	500	70.5	32.0	(32x0.20) TC	17	1.00		0.260	6.60	
HMC0105		3	1640	500	80.5	36.5	(32x0.20) TC	17	1.00		0.276	7.00	
HMC0106		4	1640	500	97.0	44.0	(32x0.20) TC	17	1.00		0.299	7.60	
HMC0107		5	1640	500	115.7	52.5	(32x0.20) TC	17	1.00		0.335	8.50	
HMC0108		2	1640	500	92.6	42.0	(30x0.25) TC	16	1.50		0.323	8.20	
HMC0109		3	1640	500	111.3	50.5	(30x0.25) TC	16	1.50		0.343	8.70	
HMC0110		4	1640	500	138.9	63.0	(30x0.25) TC	16	1.50		0.378	9.60	
HMC0111		5	1640	500	173.1	78.5	(30x0.25) TC	16	1.50		0.413	10.50	
HMC0112		2	1640	500	136.7	62.0	(50x0.25) TC	14	2.50		0.378	9.60	
HMC0113		3	1640	500	173.1	78.5	(50x0.25) TC	14	2.50		0.402	10.20	
HMC0114		4	1640	500	216.1	98.0	(50x0.25) TC	14	2.50		0.445	11.30	
HMC0115		5	1640	500	262.3	119.0	(50x0.25) TC	14	2.50		0.496	12.60	
HMC0116		3	1640	500	248.0	112.5	(56x0.30) TC	12	4		0.469	11.90	
HMC0117		4	1640	500	319.7	145.0	(56x0.30) TC	12	4		0.520	13.20	
HMC0118		3	1640	500	336.2	152.5	(84x0.30) TC	10	6		0.535	13.60	
HMC0119		4	1640	500	418.9	190.0	(84x0.30) TC	10	6		0.591	15.00	



TC = Tinned Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber – Steel Wire Braid (SWB)

Multicore Cables

300/500V, 180°C, peak temp 250°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
180°C • 18 - 4/0 AWG • Stranded Tinned Copper Wire													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Glass Fiber Tape** • **Overall Red-Brown FRNC/LSNH Jacket** • **SWB**													
		IEC 60754-1 VDE 0282 Part 1								Overall Glass Fiber Foil			Industrial areas with increased temperature and mechanical requirements, e.g. - Mechanical engineering - Glass and ceramic fabrication - Steel and iron fabrication
HMC0120	2	1640	500	97.0	44.0	(24x0.20) TC	18	0.75		0.283	7.20	
HMC0121	3	1640	500	109.1	49.5	(24x0.20) TC	18	0.75		0.299	7.60	
HMC0122	4	1640	500	133.4	60.5	(24x0.20) TC	18	0.75		0.319	8.10	
HMC0123	5	1640	500	162.0	73.5	(24x0.20) TC	18	0.75		0.362	9.20	
HMC0124	6	1640	500	186.3	84.5	(24x0.20) TC	18	0.75		0.390	9.90	
HMC0125	7	1640	500	196.2	89.0	(24x0.20) TC	18	0.75		0.390	9.90	
HMC0126	2	1640	500	108.0	49.0	(32x0.20) TC	17	1.00		0.299	7.60	
HMC0127	3	1640	500	131.2	59.5	(32x0.20) TC	17	1.00		0.315	8.00	
HMC0128	4	1640	500	153.2	69.5	(32x0.20) TC	17	1.00		0.346	8.80	
HMC0129	5	1640	500	184.1	83.5	(32x0.20) TC	17	1.00		0.382	9.70	
HMC0130	6	1640	500	203.9	92.5	(32x0.20) TC	17	1.00		0.409	10.40	
HMC0131	7	1640	500	213.8	97.0	(32x0.20) TC	17	1.00		0.409	10.40	
HMC0132	2	1640	500	138.9	63.0	(30x0.25) TC	16	1.50		0.327	8.30	
HMC0133	3	1640	500	157.6	71.5	(30x0.25) TC	16	1.50		0.343	8.70	
HMC0134	4	1640	500	187.4	85.0	(30x0.25) TC	16	1.50		0.378	9.60	
HMC0135	5	1640	500	218.3	99.0	(30x0.25) TC	16	1.50		0.409	10.40	
HMC0136	6	1640	500	270.1	122.5	(30x0.25) TC	16	1.50		0.449	11.40	
HMC0137	7	1640	500	282.2	128.0	(30x0.25) TC	16	1.50		0.449	11.40	
HMC0138	8	1640	500	347.2	157.5	(30x0.25) TC	16	1.50		0.500	12.70	
HMC0139	10	1640	500	407.9	185.0	(30x0.25) TC	16	1.50		0.551	14.00	
HMC0140	12	1640	500	449.7	204.0	(30x0.25) TC	16	1.50		0.571	14.50	
HMC0141	14	1640	500	519.2	235.5	(30x0.25) TC	16	1.50		0.614	15.60	
HMC0142	16	1640	500	596.3	270.5	(30x0.25) TC	16	1.50		0.669	17.00	
HMC0143	18	1640	500	660.3	299.5	(30x0.25) TC	16	1.50		0.701	17.80	
HMC0144	20	1640	500	694.4	315.0	(30x0.25) TC	16	1.50		0.720	18.30	
HMC0145	24	1640	500	837.7	380.0	(30x0.25) TC	16	1.50		0.803	20.40	
HMC0146	2	1640	500	181.9	82.5	(50x0.25) TC	14	2.50		0.382	9.70	
HMC0147	3	1640	500	262.3	119.0	(50x0.25) TC	14	2.50		0.402	10.20	
HMC0148	4	1640	500	295.4	134.0	(50x0.25) TC	14	2.50		0.453	11.50	

TC = Tinned Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber – Steel Wire Braid (SWB)

Multicore Cables

300/500V, 180°C, peak temp 250°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	

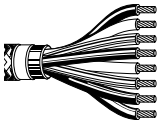
180°C • 18 - 4/0 AWG • Stranded Tinned Copper Wire *(continued)*

Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Glass Fiber Tape** • **Overall Red-Brown FRNC/LSNH Jacket** • **SWB**

IEC 60754-1
VDE 0282
Part 1

Overall
Glass Fiber Foil

Industrial areas with increased temperature and mechanical requirements, e.g.
- Mechanical engineering
- Glass and ceramic fabrication
- Steel and iron fabrication



HMC0149	5	1640	500	347.2	157.5	(50x0.25) TC	14	2.50		0.500	12.70	
HMC0150	6	1640	500	407.9	185.0	(50x0.25) TC	14	2.50		0.539	13.70	
HMC0151	7	1640	500	424.4	192.5	(50x0.25) TC	14	2.50		0.539	13.70	
HMC0152	12	1640	500	670.2	304.0	(50x0.25) TC	14	2.50		0.693	17.60	
HMC0153	2	1640	500	281.1	127.5	(56x0.30) TC	12	4		0.453	11.50	
HMC0154	3	1640	500	329.6	149.5	(56x0.30) TC	12	4		0.480	12.20	
HMC0155	4	1640	500	402.3	182.5	(56x0.30) TC	12	4		0.528	13.40	
HMC0156	5	1640	500	501.5	227.5	(56x0.30) TC	12	4		0.594	15.10	
HMC0157	6	1640	500	578.7	262.5	(56x0.30) TC	12	4		0.646	16.40	
HMC0158	7	1640	500	612.9	278.0	(56x0.30) TC	12	4		0.646	16.40	
HMC0159	2	1640	500	359.3	163.0	(84x0.30) TC	10	6		0.508	12.90	
HMC0160	3	1640	500	442.0	200.5	(84x0.30) TC	10	6		0.539	13.70	
HMC0161	4	1640	500	534.6	242.5	(84x0.30) TC	10	6		0.583	14.80	
HMC0162	5	1640	500	663.6	301.0	(84x0.30) TC	10	6		0.661	16.80	
HMC0163	6	1640	500	772.7	350.5	(84x0.30) TC	10	6		0.717	18.20	
HMC0164	7	1640	500	811.3	368.0	(84x0.30) TC	10	6		0.717	18.20	
HMC0165	2	1640	500	598.5	271.5	(80x0.40) TC	8	10		0.681	17.30	
HMC0166	3	1640	500	718.7	326.0	(80x0.40) TC	8	10		0.724	18.40	
HMC0167	4	1640	500	909.4	412.5	(80x0.40) TC	8	10		0.811	20.60	
HMC0168	5	1640	500	1088.0	493.5	(80x0.40) TC	8	10		0.886	22.50	
HMC0169	2	1640	500	824.5	374.0	(128x0.40) TC	6	16		0.795	20.20	
HMC0170	3	1640	500	1002.0	454.5	(128x0.40) TC	6	16		0.846	21.50	
HMC0171	4	1640	500	1304.0	591.5	(128x0.40) TC	6	16		0.921	23.40	
HMC0172	5	1640	500	1535.5	696.5	(128x0.40) TC	6	16		1.031	26.20	
HMC0173	2	1640	500	1153.0	523.0	(200x0.40) TC	4	25		0.937	23.80	
HMC0174	3	1640	500	1484.8	673.5	(200x0.40) TC	4	25		1.024	26.00	
HMC0175	4	1640	500	1849.7	839.0	(200x0.40) TC	4	25		1.114	28.30	
HMC0176	2	1640	500	1519.0	689.0	(280x0.40) TC	2	35		1.071	27.20	
HMC0177	3	1640	500	2034.8	923.0	(280x0.40) TC	2	35		1.142	29.00	

TC = Tinned Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

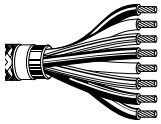
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber – Steel Wire Braid (SWB)

Multicore Cables

300/500V, 180°C, peak temp 250°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
180°C • 18 - 4/0 AWG • Stranded Tinned Copper Wire *(continued)*													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Glass Fiber Tape** • **Overall Red-Brown FRNC/LSNH Jacket** • **SWB**													
		IEC 60754-1 VDE 0282 Part 1								Overall Glass Fiber Foil			Industrial areas with increased temperature and mechanical requirements, e.g. - Mechanical engineering - Glass and ceramic fabrication - Steel and iron fabrication
	HMC0178	4	1640	500	2469.2	1120.0	(280x0.40) TC	2	35		1.272	32.30	
	HMC0179	2	1640	500	2060.2	934.5	(400x0.40) TC	1	50		1.236	31.40	
	HMC0180	3	1640	500	2627.9	1192.0	(400x0.40) TC	1	50		1.319	33.50	
	HMC0181	4	1640	500	2978.4	1351.0	(400x0.40) TC	1	50		1.465	37.20	
	HMC0182	2	1640	500	2735.9	1241.0	(356x0.50) TC	2/0	70		1.390	35.30	
	HMC0183	3	1640	500	3653.0	1657.0	(356x0.50) TC	2/0	70		1.508	38.30	
	HMC0184	4	1640	500	4490.8	2037.0	(356x0.50) TC	2/0	70		1.673	42.50	
	HMC0185	2	1640	500	3725.8	1690.0	(485x0.50) TC	3/0	95		1.630	41.40	
	HMC0186	3	1640	500	4738.8	2149.5	(485x0.50) TC	3/0	95		1.764	44.80	
	HMC0187	4	1640	500	5885.2	2669.5	(485x0.50) TC	3/0	95		1.961	49.80	
	HMC0188	3	1640	500	5816.8	2638.5	(614x0.50) TC	4/0	120		1.921	48.80	
	HMC0189	4	1640	500	7243.2	3285.5	(614x0.50) TC	4/0	120		2.130	54.10	



TC = Tinned Copper • DCR = DC resistance

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Silicone Rubber – Overall Braid

Multicore Cables

300/500V, 180°C, peak temp 250°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 18 - 14 AWG • Stranded Tinned Copper Wire • Separator Foil • Overall Tinned Copper Braid													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Red-Brown FRNC/LSNH Jacket**													
	IEC 60754-1 VDE 0282 Part 1									Overall > 85% TC Braid			Industrial areas with increased temperature and mechanical requirements, e.g. - Mechanical engineering - Traffic technology - Lighting industry - Glass and ceramic fabrication - Steel and iron fabrication
	HMC0190	2	1640	500	100.3	45.5	(24x0.20) TC	18	0.75		0.287	7.30	
	HMC0191	3	1640	500	120.2	54.5	(24x0.20) TC	18	0.75		0.299	7.60	
	HMC0192	4	1640	500	141.1	64.0	(24x0.20) TC	18	0.75		0.323	8.20	
	HMC0193	5	1640	500	170.9	77.5	(24x0.20) TC	18	0.75		0.350	8.90	
	HMC0194	7	1640	500	209.4	95.0	(24x0.20) TC	18	0.75		0.386	9.80	
	HMC0195	2	1640	500	114.6	52.0	(32x0.20) TC	17	1.00		0.315	8.00	
	HMC0196	3	1640	500	136.7	62.0	(32x0.20) TC	17	1.00		0.331	8.40	
	HMC0197	4	1640	500	157.6	71.5	(32x0.20) TC	17	1.00		0.354	9.00	
	HMC0198	5	1640	500	201.7	91.5	(32x0.20) TC	17	1.00		0.382	9.70	
	HMC0199	7	1640	500	264.6	120.0	(32x0.20) TC	17	1.00		0.421	10.70	
	HMC0200	2	1640	500	132.3	60.0	(30x0.25) TC	16	1.50		0.339	8.60	
	HMC0201	3	1640	500	159.8	72.5	(30x0.25) TC	16	1.50		0.354	9.00	
	HMC0202	4	1640	500	210.5	95.5	(30x0.25) TC	16	1.50		0.390	9.90	
	HMC0203	5	1640	500	246.9	112.0	(30x0.25) TC	16	1.50		0.421	10.70	
	HMC0204	7	1640	500	297.6	135.0	(30x0.25) TC	16	1.50		0.453	11.50	
	HMC0205	2	1640	500	192.9	87.5	(50x0.25) TC	14	2.50		0.394	10.00	
	HMC0206	3	1640	500	233.7	106.0	(50x0.25) TC	14	2.50		0.413	10.50	
	HMC0207	4	1640	500	288.8	131.0	(50x0.25) TC	14	2.50		0.445	11.30	
	HMC0208	5	1640	500	337.3	153.0	(50x0.25) TC	14	2.50		0.484	12.30	
	HMC0209	7	1640	500	451.9	205.0	(50x0.25) TC	14	2.50		0.547	13.90	
	HMC0210	2	1640	500	251.3	114.0	(56x0.30) TC	12	4		0.449	11.40	
	HMC0211	3	1640	500	318.6	144.5	(56x0.30) TC	12	4		0.472	12.00	
	HMC0212	4	1640	500	414.5	188.0	(56x0.30) TC	12	4		0.535	13.60	
	HMC0213	5	1640	500	482.8	219.0	(56x0.30) TC	12	4		0.583	14.80	
	HMC0214	7	1640	500	612.9	278.0	(56x0.30) TC	12	4		0.630	16.00	



TC = Tinned Copper • DCR = DC resistance

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Silicone Rubber – Heavy Duty

Multicore Cables
300/500V, 180°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
180°C • 18 - 10 AWG • Stranded Tinned Copper Wire													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Black FRNC/LSNH Jacket**													
		IEC 60754-1 VDE 0282 Part 1								Unshielded			Industrial areas with increased temperature requirements, e.g. - Traffic technology - Power plant technology - Mechanical engineering - Steel and iron fabrication
	HMC0215	2	1640	500	115.7	52.5	(24x0.20) TC	18	0.75		0.374	9.50	
	HMC0216	3	1640	500	130.1	59.0	(24x0.20) TC	18	0.75		0.386	9.80	
	HMC0217	4	1640	500	148.8	67.5	(24x0.20) TC	18	0.75		0.409	10.40	
	HMC0218	5	1640	500	173.1	78.5	(24x0.20) TC	18	0.75		0.437	11.10	
	HMC0219	6	1640	500	198.4	90.0	(24x0.20) TC	18	0.75		0.461	11.70	
	HMC0220	7	1640	500	202.8	92.0	(24x0.20) TC	18	0.75		0.461	11.70	
	HMC0221	2	1640	500	127.9	58.0	(32x0.20) TC	17	1.00		0.386	9.80	
	HMC0222	3	1640	500	145.5	66.0	(32x0.20) TC	17	1.00		0.402	10.20	
	HMC0223	4	1640	500	167.5	76.0	(32x0.20) TC	17	1.00		0.425	10.80	
	HMC0224	5	1640	500	197.3	89.5	(32x0.20) TC	17	1.00		0.453	11.50	
	HMC0225	6	1640	500	224.9	102.0	(32x0.20) TC	17	1.00		0.484	12.30	
	HMC0226	7	1640	500	232.6	105.0	(32x0.20) TC	17	1.00		0.484	12.30	
	HMC0227	2	1640	500	157.6	71.5	(30x0.25) TC	16	1.50		0.425	10.80	
	HMC0228	3	1640	500	181.9	82.5	(30x0.25) TC	16	1.50		0.441	11.20	
	HMC0229	4	1640	500	211.6	96.0	(30x0.25) TC	16	1.50		0.469	11.90	
	HMC0230	5	1640	500	252.4	114.5	(30x0.25) TC	16	1.50		0.504	12.80	
	HMC0231	6	1640	500	276.7	125.5	(30x0.25) TC	16	1.50		0.539	13.70	
	HMC0232	7	1640	500	299.8	136.0	(30x0.25) TC	16	1.50		0.539	13.70	
	HMC0233	8	1640	500	340.6	154.5	(30x0.25) TC	16	1.50		0.575	14.60	
	HMC0234	10	1640	500	403.4	183.0	(30x0.25) TC	16	1.50		0.630	16.00	
	HMC0235	12	1640	500	453.0	205.5	(30x0.25) TC	16	1.50		0.654	16.60	
	HMC0236	14	1640	500	513.7	233.0	(30x0.25) TC	16	1.50		0.697	17.70	
	HMC0237	16	1640	500	573.2	260.0	(30x0.25) TC	16	1.50		0.732	18.60	
	HMC0238	18	1640	500	636.0	288.5	(30x0.25) TC	16	1.50		0.768	19.50	
	HMC0239	20	1640	500	679.0	308.0	(30x0.25) TC	16	1.50		0.787	20.00	
	HMC0240	24	1640	500	794.8	360.5	(30x0.25) TC	16	1.50		0.858	21.80	
	HMC0241	30	1640	500	951.3	431.5	(30x0.25) TC	16	1.50		0.925	23.50	
	HMC0242	2	1640	500	206.1	93.5	(50x0.25) TC	14	2.50		0.472	12.00	
	HMC0243	3	1640	500	243.6	110.5	(50x0.25) TC	14	2.50		0.492	12.50	

TC = Tinned Copper • DCR = DC resistance

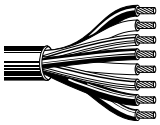
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Silicone Rubber – Heavy Duty

Multicore Cables
300/500V, 180°C

De-scription	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
180°C • 18 - 10 AWG • Stranded Tinned Copper Wire *(continued)*													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Black FRNC/LSNH Jacket**													
		IEC 60754-1 VDE 0282 Part 1								Unshielded			Industrial areas with increased temperature requirements, e.g. - Traffic technology - Power plant technology - Mechanical engineering - Steel and iron fabrication
	HMC0244	4	1640	500	287.7	130.5	(50x0.25) TC	14	2.50		0.528	13.40	
	HMC0245	5	1640	500	343.9	156.0	(50x0.25) TC	14	2.50		0.567	14.40	
	HMC0246	6	1640	500	401.2	182.0	(50x0.25) TC	14	2.50		0.610	15.50	
	HMC0247	7	1640	500	421.1	191.0	(50x0.25) TC	14	2.50		0.610	15.50	
	HMC0248	12	1640	500	658.1	298.5	(50x0.25) TC	14	2.50		0.748	19.00	
	HMC0249	24	1640	500	1169.5	530.5	(50x0.25) TC	14	2.50		0.996	25.30	
	HMC0250	30	1640	500	1352.5	613.5	(50x0.25) TC	14	2.50		1.083	27.50	
	HMC0251	2	1640	500	263.4	119.5	(56x0.30) TC	12	4		0.512	13.00	
	HMC0252	3	1640	500	317.5	144.0	(56x0.30) TC	12	4		0.535	13.60	
	HMC0253	4	1640	500	381.4	173.0	(56x0.30) TC	12	4		0.575	14.60	
	HMC0254	5	1640	500	465.2	211.0	(56x0.30) TC	12	4		0.622	15.80	
	HMC0255	6	1640	500	539.0	244.5	(56x0.30) TC	12	4		0.669	17.00	
	HMC0256	7	1640	500	571.0	259.0	(56x0.30) TC	12	4		0.669	17.00	
	HMC0257	2	1640	500	334.0	151.5	(84x0.30) TC	10	6		0.559	14.20	
	HMC0258	3	1640	500	409.0	185.5	(84x0.30) TC	10	6		0.587	14.90	
	HMC0259	4	1640	500	494.9	224.5	(84x0.30) TC	10	6		0.634	16.10	
	HMC0260	5	1640	500	610.7	277.0	(84x0.30) TC	10	6		0.685	17.40	
	HMC0261	6	1640	500	713.2	323.5	(84x0.30) TC	10	6		0.740	18.80	
	HMC0262	7	1640	500	751.8	341.0	(84x0.30) TC	10	6		0.740	18.80	



TC = Tinned Copper • DCR = DC resistance

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Silicone Rubber – Heavy Duty, Overall Braid

Multicore Cables
300/500V, 180°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 18 - 10 AWG • Stranded Tinned Copper Wire • Glass Fiber Tape • Mica Tape • Overall Tinned Copper Braid													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Black FRNC/LSNH Jacket**													
		IEC 60754-1 VDE 0282 Part 1								Overall > 85% TC Braid			Industrial areas with increased temperature requirements, e.g. - Traffic technology - Power plant technology - Mechanical engineering - Steel and iron fabrication
	HMC0263	2	1640	500	148.8	67.5	(24x0.20) TC	18	0.75		0.429	10.90	
	HMC0264	3	1640	500	166.4	75.5	(24x0.20) TC	18	0.75		0.445	11.30	
	HMC0265	4	1640	500	187.4	85.0	(24x0.20) TC	18	0.75		0.465	11.80	
	HMC0266	5	1640	500	212.7	96.5	(24x0.20) TC	18	0.75		0.492	12.50	
	HMC0267	6	1640	500	261.2	118.5	(24x0.20) TC	18	0.75		0.528	13.40	
	HMC0268	7	1640	500	266.8	121.0	(24x0.20) TC	18	0.75		0.528	13.40	
	HMC0269	2	1640	500	160.9	73.0	(32x0.20) TC	17	1.00		0.445	11.30	
	HMC0270	3	1640	500	180.8	82.0	(32x0.20) TC	17	1.00		0.461	11.70	
	HMC0271	4	1640	500	206.1	93.5	(32x0.20) TC	17	1.00		0.484	12.30	
	HMC0272	5	1640	500	241.4	109.5	(32x0.20) TC	17	1.00		0.520	13.20	
	HMC0273	6	1640	500	288.8	131.0	(32x0.20) TC	17	1.00		0.547	13.90	
	HMC0274	7	1640	500	296.5	134.5	(32x0.20) TC	17	1.00		0.547	13.90	
	HMC0275	2	1640	500	203.9	92.5	(30x0.25) TC	16	1.50		0.480	12.20	
	HMC0276	3	1640	500	249.1	113.0	(30x0.25) TC	16	1.50		0.508	12.90	
	HMC0277	4	1640	500	288.8	131.0	(30x0.25) TC	16	1.50		0.535	13.60	
	HMC0278	5	1640	500	334.0	151.5	(30x0.25) TC	16	1.50		0.567	14.40	
	HMC0279	6	1640	500	380.3	172.5	(30x0.25) TC	16	1.50		0.602	15.30	
	HMC0280	7	1640	500	392.4	178.0	(30x0.25) TC	16	1.50		0.602	15.30	
	HMC0281	8	1640	500	469.6	213.0	(30x0.25) TC	16	1.50		0.646	16.40	
	HMC0282	10	1640	500	533.5	242.0	(30x0.25) TC	16	1.50		0.701	17.80	
	HMC0283	12	1640	500	607.4	275.5	(30x0.25) TC	16	1.50		0.724	18.40	
	HMC0284	14	1640	500	668.0	303.0	(30x0.25) TC	16	1.50		0.772	19.60	
	HMC0285	16	1640	500	737.4	334.5	(30x0.25) TC	16	1.50		0.803	20.40	
	HMC0286	18	1640	500	817.9	371.0	(30x0.25) TC	16	1.50		0.839	21.30	
	HMC0287	20	1640	500	864.2	392.0	(30x0.25) TC	16	1.50		0.858	21.80	
	HMC0288	24	1640	500	1029.5	467.0	(30x0.25) TC	16	1.50		0.929	23.60	
	HMC0289	30	1640	500	1209.2	548.5	(30x0.25) TC	16	1.50		1.000	25.40	
	HMC0290	2	1640	500	271.2	123.0	(50x0.25) TC	14	2.50		0.535	13.60	
	HMC0291	3	1640	500	316.4	143.5	(50x0.25) TC	14	2.50		0.559	14.20	
	HMC0292	4	1640	500	372.6	169.0	(50x0.25) TC	14	2.50		0.594	15.10	
	HMC0293	5	1640	500	466.3	211.5	(50x0.25) TC	14	2.50		0.642	16.30	

TC = Tinned Copper • DCR = DC resistance

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Silicone Rubber – Heavy Duty, Overall Braid

Multicore Cables
300/500V, 180°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 18 - 10 AWG • Stranded Tinned Copper Wire • Glass Fiber Tape • Mica Tape • Overall Tinned Copper Braid *(continued)*													
Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Black FRNC/LSNH Jacket**													
		IEC 60754-1 VDE 0282 Part 1								Overall > 85% TC Braid			Industrial areas with increased temperature requirements, e.g. - Traffic technology - Power plant technology - Mechanical engineering - Steel and iron fabrication
	HMC0294	6	1640	500	529.1	240.0	(50x0.25) TC	14	2.50		0.681	17.30	
	HMC0295	7	1640	500	548.9	249.0	(50x0.25) TC	14	2.50		0.681	17.30	
	HMC0296	12	1640	500	831.1	377.0	(50x0.25) TC	14	2.50		0.823	20.90	
	HMC0297	24	1640	500	1434.1	650.5	(50x0.25) TC	14	2.50		1.071	27.20	
	HMC0298	30	1640	500	1733.9	786.5	(50x0.25) TC	14	2.50		1.154	29.30	
	HMC0299	2	1640	500	306.4	139.0	(56x0.30) TC	12	4		0.575	14.60	
	HMC0300	3	1640	500	372.6	169.0	(56x0.30) TC	12	4		0.602	15.30	
	HMC0301	4	1640	500	471.8	214.0	(56x0.30) TC	12	4		0.650	16.50	
	HMC0302	5	1640	500	562.2	255.0	(56x0.30) TC	12	4		0.693	17.60	
	HMC0303	6	1640	500	640.4	290.5	(56x0.30) TC	12	4		0.740	18.80	
	HMC0304	7	1640	500	681.2	309.0	(56x0.30) TC	12	4		0.740	18.80	
	HMC0305	2	1640	500	402.3	182.5	(84x0.30) TC	10	6		0.630	16.00	
	HMC0306	3	1640	500	489.4	222.0	(84x0.30) TC	10	6		0.661	16.80	
	HMC0307	4	1640	500	585.3	265.5	(84x0.30) TC	10	6		0.705	17.90	
	HMC0308	5	1640	500	714.3	324.0	(84x0.30) TC	10	6		0.760	19.30	
	HMC0309	6	1640	500	827.8	375.5	(84x0.30) TC	10	6		0.811	20.60	
	HMC0310	7	1640	500	871.9	395.5	(84x0.30) TC	10	6		0.811	20.60	

TC = Tinned Copper • DCR = DC resistance

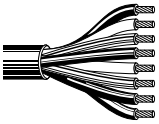
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FEP

Multicore Cables
600V, 200°C, peak temp 230°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
205°C • 18 - 14 AWG • Stranded Silver-Plated Copper Wire													
FEP Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Grey FEP Jacket**													
										Unshielded			Industrial areas with high temperature and increased mechanical stress, e.g. - Instrumentation engineering - Mechanical engineering - Chemical industry - Traffic and automotive - Lighting industry
	HMC0311	2	1640	500	34.2	15.5	(24x0.20) SPC	18	0.75		0.177	4.50	
	HMC0312	3	1640	500	46.3	21.0	(24x0.20) SPC	18	0.75		0.189	4.80	
	HMC0313	4	1640	500	63.9	29.0	(24x0.20) SPC	18	0.75		0.201	5.10	
	HMC0314	5	1640	500	82.7	37.5	(24x0.20) SPC	18	0.75		0.228	5.80	
	HMC0315	7	1640	500	101.4	46.0	(24x0.20) SPC	18	0.75		0.240	6.10	
	HMC0316	2	1640	500	41.9	19.0	(32x0.20) SPC	17	1.00		0.193	4.90	
	HMC0317	3	1640	500	59.5	27.0	(32x0.20) SPC	17	1.00		0.205	5.20	
	HMC0318	4	1640	500	77.2	35.0	(32x0.20) SPC	17	1.00		0.224	5.70	
	HMC0319	5	1640	500	97.0	44.0	(32x0.20) SPC	17	1.00		0.240	6.10	
	HMC0320	7	1640	500	131.2	59.5	(32x0.20) SPC	17	1.00		0.272	6.90	
	HMC0321	2	1640	500	58.4	26.5	(30x0.25) SPC	16	1.50		0.213	5.40	
	HMC0322	3	1640	500	79.4	36.0	(30x0.25) SPC	16	1.50		0.228	5.80	
	HMC0323	4	1640	500	100.3	45.5	(30x0.25) SPC	16	1.50		0.248	6.30	
	HMC0324	5	1640	500	129.0	58.5	(30x0.25) SPC	16	1.50		0.280	7.10	
	HMC0325	7	1640	500	169.8	77.0	(30x0.25) SPC	16	1.50		0.307	7.80	
	HMC0326	2	1640	500	97.0	44.0	(50x0.25) SPC	14	2.50		0.256	6.50	
	HMC0327	3	1640	500	125.7	57.0	(50x0.25) SPC	14	2.50		0.283	7.20	
	HMC0328	4	1640	500	162.0	73.5	(50x0.25) SPC	14	2.50		0.307	7.80	
	HMC0329	5	1640	500	198.4	90.0	(50x0.25) SPC	14	2.50		0.339	8.60	
	HMC0330	7	1640	500	267.9	121.5	(50x0.25) SPC	14	2.50		0.382	9.70	



SPC = Silver-Plated Copper • DCR = DC resistance

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FEP – Overall Braid

Multicore Cables

600V, 200°C, peak temp 230°C

De-scription	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
205°C • 26 - 20 AWG • Stranded Silver-Plated Copper Wire • Separator Foil • Overall Tinned Copper Braid													
FEP Insulation (Color Code: see chart 11, Tech Info Section) • **Overall Grey FEP Jacket**													
										Overall > 85% TC Braid			Industrial areas with high temperature and increased mechanical stress, e.g. - Instrumentation engineering - Mechanical engineering - Chemical industry - Traffic and automotive - Lighting industry
HMC0331	2	1640	500	27.6	12.5	(19x0.107) SPC	26	0.14		0.142	3.60	
HMC0332	3	1640	500	33.1	15.0	(19x0.107) SPC	26	0.14		0.150	3.80	
HMC0333	4	1640	500	38.6	17.5	(19x0.107) SPC	26	0.14		0.154	3.90	
HMC0334	5	1640	500	48.5	22.0	(19x0.107) SPC	26	0.14		0.173	4.40	
HMC0335	6	1640	500	56.2	25.5	(19x0.107) SPC	26	0.14		0.193	4.90	
HMC0336	7	1640	500	59.5	27.0	(19x0.107) SPC	26	0.14		0.193	4.90	
HMC0337	2	1640	500	33.1	15.0	(19x0.127) SPC	24	0.25		0.150	3.80	
HMC0338	3	1640	500	38.6	17.5	(19x0.127) SPC	24	0.25		0.157	4.00	
HMC0339	4	1640	500	43.0	19.5	(19x0.127) SPC	24	0.25		0.165	4.20	
HMC0340	5	1640	500	56.2	25.5	(19x0.127) SPC	24	0.25		0.189	4.80	
HMC0341	6	1640	500	60.6	27.5	(19x0.127) SPC	24	0.25		0.197	5.00	
HMC0342	7	1640	500	69.4	31.5	(19x0.127) SPC	24	0.25		0.197	5.00	
HMC0343	2	1640	500	39.7	18.0	(19x0.160) SPC	22	0.34		0.161	4.10	
HMC0344	3	1640	500	48.5	22.0	(19x0.160) SPC	22	0.34		0.169	4.30	
HMC0345	4	1640	500	59.5	27.0	(19x0.160) SPC	22	0.34		0.193	4.90	
HMC0346	5	1640	500	70.5	32.0	(19x0.160) SPC	22	0.34		0.209	5.30	
HMC0347	6	1640	500	79.4	36.0	(19x0.160) SPC	22	0.34		0.224	5.70	
HMC0348	7	1640	500	86.0	39.0	(19x0.160) SPC	22	0.34		0.224	5.70	
HMC0349	2	1640	500	48.5	22.0	(19x0.203) SPC	20	0.50		0.177	4.50	
HMC0350	3	1640	500	61.7	28.0	(19x0.203) SPC	20	0.50		0.193	4.90	
HMC0351	4	1640	500	81.6	37.0	(19x0.203) SPC	20	0.50		0.213	5.40	
HMC0352	5	1640	500	92.6	42.0	(19x0.203) SPC	20	0.50		0.228	5.80	
HMC0353	6	1640	500	108.0	49.0	(19x0.203) SPC	20	0.50		0.248	6.30	
HMC0354	7	1640	500	117.9	53.5	(19x0.203) SPC	20	0.50		0.248	6.30	

TC = Tinned Copper • SPC = Silver-Plated Copper • DCR = DC resistance

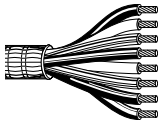
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Glass Fiber – Glass Braid

Multicore Cables
300/300V, 350°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
350°C • 24 - 12 AWG • Stranded Nickel-Plated Copper Wire • Separator Foil • Overall Silicone Impregnated Glass Fiber Braid													
Glass Fiber Insulation (Color Code: see chart 11, Tech Info Section)													
										Overall Glass Fiber Braid			For wiring at high ambient temperature and increased mechanical stress, e.g. - Extrusion and drying installations - Electric heatings - Steel and iron fabrication - Glass and ceramic fabrication
HMC0355	2	1640	500	14.3	6.5	(7x0.20) NPC	24	0.22			0.098	2.50	
HMC0356	3	1640	500	16.5	7.5	(7x0.20) NPC	24	0.22			0.106	2.70	
HMC0357	4	1640	500	18.7	8.5	(7x0.20) NPC	24	0.22			0.114	2.90	
HMC0358	2	1640	500	20.9	9.5	(7x0.25) NPC	22	0.34			0.118	3.00	
HMC0359	3	1640	500	16.5	7.5	(7x0.25) NPC	22	0.34			0.130	3.30	
HMC0360	4	1640	500	36.4	16.5	(7x0.25) NPC	22	0.34			0.138	3.50	
HMC0361	2	1640	500	28.7	13.0	(16x0.20) NPC	20	0.50			0.138	3.50	
HMC0362	3	1640	500	39.7	18.0	(16x0.20) NPC	20	0.50			0.146	3.70	
HMC0363	4	1640	500	49.6	22.5	(16x0.20) NPC	20	0.50			0.157	4.00	
HMC0364	2	1640	500	48.5	22.0	(24x0.20) NPC	18	0.75			0.201	5.10	
HMC0365	3	1640	500	61.7	28.0	(24x0.20) NPC	18	0.75			0.220	5.60	
HMC0366	4	1640	500	91.5	41.5	(24x0.20) NPC	18	0.75			0.240	6.10	
HMC0367	2	1640	500	69.4	31.5	(32x0.20) NPC	17	1.00			0.220	5.60	
HMC0368	3	1640	500	97.0	44.0	(32x0.20) NPC	17	1.00			0.236	6.00	
HMC0369	4	1640	500	124.6	56.5	(32x0.20) NPC	17	1.00			0.256	6.50	
HMC0370	2	1640	500	81.6	37.0	(30x0.25) NPC	16	1.50			0.252	6.40	
HMC0371	3	1640	500	113.5	51.5	(30x0.25) NPC	16	1.50			0.268	6.80	
HMC0372	4	1640	500	146.6	66.5	(30x0.25) NPC	16	1.50			0.291	7.40	
HMC0373	2	1640	500	156.5	71.0	(50x0.25) NPC	14	2.50*			0.327	8.30	
HMC0374	3	1640	500	189.6	86.0	(50x0.25) NPC	14	2.50*			0.402	10.20	
HMC0375	4	1640	500	248.0	112.5	(50x0.25) NPC	14	2.50*			0.445	11.30	
HMC0376	2	1640	500	202.8	92.0	(56x0.30) NPC	12	4*			0.437	11.10	
HMC0377	3	1640	500	248.0	112.5	(56x0.30) NPC	12	4*			0.469	11.90	
HMC0378	4	1640	500	341.7	155.0	(56x0.30) NPC	12	4*			0.520	13.20	



NPC = Nickel-Plated Copper • DCR = DC resistance
* 300/500 Volt construction

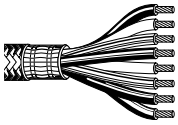
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Glass Fiber – Glass Braid, Steel Wire Braid (SWB)

Multicore Cables
300/300V, 350°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
350°C • 24 - 12 AWG • Stranded NPC Wire • Impregnated Glass Fiber Shield • Separator Foil • Overall Silicone Impregnated Glass Fiber Braid													
Glass Fiber Insulation (Color Code: see chart 11, Tech Info Section) • **SWB**													
										Overall Glass Fiber Braid			For wiring at high ambient temperature and increased mechanical stress, e.g. - Extrusion and drying installations - Electric heatings - Steel and iron fabrication - Glass and ceramic fabrication
HMC0379	2	1640	500	27.6	12.5	(7x0.20) NPC	24	0.22			0.130	3.30	
HMC0380	3	1640	500	33.1	15.0	(7x0.20) NPC	24	0.22			0.138	3.50	
HMC0381	4	1640	500	36.4	16.5	(7x0.20) NPC	24	0.22			0.150	3.80	
HMC0382	2	1640	500	35.3	16.0	(7x0.25) NPC	22	0.34			0.146	3.70	
HMC0383	3	1640	500	41.9	19.0	(7x0.25) NPC	22	0.34			0.154	3.90	
HMC0384	4	1640	500	54.0	24.5	(7x0.25) NPC	22	0.34			0.165	4.20	
HMC0385	2	1640	500	46.3	21.0	(16x0.20) NPC	20	0.50			0.165	4.20	
HMC0386	3	1640	500	57.3	26.0	(16x0.20) NPC	20	0.50			0.173	4.40	
HMC0387	4	1640	500	68.3	31.0	(16x0.20) NPC	20	0.50			0.189	4.80	
HMC0388	2	1640	500	75.0	34.0	(24x0.20) NPC	18	0.75			0.228	5.80	
HMC0389	3	1640	500	97.0	44.0	(24x0.20) NPC	18	0.75			0.248	6.30	
HMC0390	4	1640	500	116.8	53.0	(24x0.20) NPC	18	0.75			0.268	6.80	
HMC0391	2	1640	500	94.8	43.0	(32x0.20) NPC	17	1.00			0.248	6.30	
HMC0392	3	1640	500	122.4	55.5	(32x0.20) NPC	17	1.00			0.264	6.70	
HMC0393	4	1640	500	156.5	71.0	(32x0.20) NPC	17	1.00			0.283	7.20	
HMC0394	2	1640	500	106.9	48.5	(30x0.25) NPC	16	1.50			0.280	7.10	
HMC0395	3	1640	500	146.6	66.5	(30x0.25) NPC	16	1.50			0.295	7.50	
HMC0396	4	1640	500	179.7	81.5	(30x0.25) NPC	16	1.50			0.319	8.10	
HMC0397	2	1640	500	192.9	87.5	(50x0.25) NPC	14	2.50*			0.346	8.80	
HMC0398	3	1640	500	234.8	106.5	(50x0.25) NPC	14	2.50*			0.429	10.90	
HMC0399	4	1640	500	327.4	148.5	(50x0.25) NPC	14	2.50*			0.484	12.30	
HMC0400	2	1640	500	278.9	126.5	(56x0.30) NPC	12	4*			0.476	12.10	
HMC0401	3	1640	500	325.2	147.5	(56x0.30) NPC	12	4*			0.508	12.90	
HMC0402	4	1640	500	434.3	197.0	(56x0.30) NPC	12	4*			0.559	14.20	



NPC = Nickel-Plated Copper • DCR = DC resistance
* 300/500 Volt construction

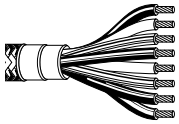
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Mica – Ceramic Braid, Steel Wire Braid (SWB)

Multicore Cables
380V, 1250°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
1250°C • 17 - 10 AWG • Stranded SA Wire • Impregnated Ceramic Fiber Shield • Mica Tape • Overall Impregnated Ceramic Fiber Braid													
Mica Insulation (Color Code: see chart 11, Tech Info Section) • **SWB**													
										Overall Ceramic Fiber Braid			For wiring at high ambient temperature and increased mechanical stress, e.g. - Glass and ceramic fabrication - Industrial furnaces - Electric heating systems
	HMC0403	2	328	100	17.0	7.7	(32x0.20) SA	17	1.00		0.323	8.20	
	HMC0404	3	328	100	22.0	10.0	(32x0.20) SA	17	1.00		0.343	8.70	
	HMC0405	4	328	100	27.6	12.5	(32x0.20) SA	17	1.00		0.382	9.70	
	HMC0406	5	328	100	34.6	15.7	(32x0.20) SA	17	1.00		0.417	10.60	
	HMC0407	2	328	100	20.3	9.2	(30x0.25) SA	16	1.50		0.346	8.80	
	HMC0408	3	328	100	26.5	12.0	(30x0.25) SA	16	1.50		0.370	9.40	
	HMC0409	4	328	100	33.3	15.1	(30x0.25) SA	16	1.50		0.409	10.40	
	HMC0410	5	328	100	41.9	19.0	(30x0.25) SA	16	1.50		0.445	11.30	
	HMC0411	2	328	100	27.3	12.4	(50x0.25) SA	14	2.50		0.374	9.50	
	HMC0412	3	328	100	34.8	15.8	(50x0.25) SA	14	2.50		0.398	10.10	
	HMC0413	4	328	100	44.1	20.0	(50x0.25) SA	14	2.50		0.437	11.10	
	HMC0414	5	328	100	54.0	24.5	(50x0.25) SA	14	2.50		0.484	12.30	
	HMC0415	2	328	100	37.9	17.2	(56x0.30) SA	12	4		0.437	11.10	
	HMC0416	3	328	100	52.5	23.8	(56x0.30) SA	12	4		0.469	11.90	
	HMC0417	4	328	100	67.5	30.6	(56x0.30) SA	12	4		0.516	13.10	
	HMC0418	5	328	100	89.1	40.4	(56x0.30) SA	12	4		0.571	14.50	
	HMC0419	2	328	100	51.6	23.4	(84x0.30) SA	10	6		0.484	12.30	
	HMC0420	3	328	100	71.4	32.4	(84x0.30) SA	10	6		0.520	13.20	
	HMC0421	4	328	100	91.9	41.7	(84x0.30) SA	10	6		0.571	14.50	
	HMC0422	5	328	100	116.6	52.9	(84x0.30) SA	10	6		0.634	16.10	



SA = Special Alloy • DCR = DC resistance

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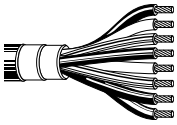
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Micaflame® – Glass Braid

Multicore Cables

300/500V, 1550°C short term, 300°C permanent

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
1550°C • 17 - 10 AWG • Stranded Nickel-Plated Copper Wire • Glass Fiber Shield • Overall Impregnated Glass Fiber Braid													
Micaflame® Insulation (Color Code: see chart 11, Tech Info Section)													
										Overall Glass Fiber Braid			For wiring at high ambient temperature and increased mechanical stress. These cables are fire resistant and offer at least 15 minutes insulation integrity in liquid steel or aluminium, e.g. - Glass and ceramic fabrication - Industrial furnaces - Electric heating systems
HMC0423	2	328	100	23.4	10.6	(32x0.20) NPC	17	1.00		0.402	10.20	
HMC0424	3	328	100	31.5	14.3	(32x0.20) NPC	17	1.00		0.433	11.00	
HMC0425	4	328	100	39.9	18.1	(32x0.20) NPC	17	1.00		0.476	12.10	
HMC0426	5	328	100	50.7	23.0	(32x0.20) NPC	17	1.00		0.524	13.30	
HMC0427	2	328	100	26.7	12.1	(30x0.25) NPC	16	1.50		0.421	10.70	
HMC0428	3	328	100	36.2	16.4	(30x0.25) NPC	16	1.50		0.453	11.50	
HMC0429	4	328	100	45.9	20.8	(30x0.25) NPC	16	1.50		0.496	12.60	
HMC0430	5	328	100	58.6	26.6	(30x0.25) NPC	16	1.50		0.551	14.00	
HMC0431	2	328	100	33.1	15.0	(50x0.25) NPC	14	2.50		0.465	11.80	
HMC0432	3	328	100	45.4	20.6	(50x0.25) NPC	14	2.50		0.492	12.50	
HMC0433	4	328	100	58.4	26.5	(50x0.25) NPC	14	2.50		0.543	13.80	
HMC0434	5	328	100	73.2	33.2	(50x0.25) NPC	14	2.50		0.606	15.40	
HMC0435	2	328	100	41.4	18.8	(56x0.30) NPC	12	4		0.500	12.70	
HMC0436	3	328	100	57.8	26.2	(56x0.30) NPC	12	4		0.535	13.60	
HMC0437	4	328	100	74.3	33.7	(56x0.30) NPC	12	4		0.591	15.00	
HMC0438	5	328	100	91.5	41.5	(56x0.30) NPC	12	4		0.654	16.60	
HMC0439	2	328	100	52.5	23.8	(84x0.30) NPC	10	6		0.555	14.10	
HMC0440	3	328	100	74.1	33.6	(84x0.30) NPC	10	6		0.594	15.10	
HMC0441	4	328	100	98.8	44.8	(84x0.30) NPC	10	6		0.650	16.50	
HMC0442	5	328	100	124.6	56.5	(84x0.30) NPC	10	6		0.728	18.50	



(Jacket optional)

NPC = Nickel-Plated Copper • DCR = DC resistance

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PVC LiY(St)CY

Multicore Cables
500V, 80°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
80°C • 22 - 14 AWG • Stranded Bare Copper Wire • Overall Alufoil • >65 % Overall Bare Copper Braid													
PVC Insulation (Color Code: see chart 11, Tech Info Section) • **Grey PVC Flame Retardant Jacket**													
		IEC 332								Overall Alufoil + Overall 65% BC Braid			- Survey and data transmission - Check and drive systems - Measure and monitor systems - Interconnection of computer networks and outskirts interface
HMC0444	2	328	100	70.5	32.0	(11x0.193) BC	22	0.35		0.169	4.30	
HMC0445	3	328	100	77.2	35.0	(11x0.193) BC	22	0.35		0.177	4.50	
HMC0446	4	328	100	88.2	40.0	(11x0.193) BC	22	0.35		0.189	4.80	
HMC0447	5	328	100	110.2	50.0	(11x0.193) BC	22	0.35		0.228	5.80	
HMC0448	6	328	100	121.3	55.0	(11x0.193) BC	22	0.35		0.232	5.90	
HMC0449	7	328	100	143.3	65.0	(11x0.193) BC	22	0.35		0.236	6.00	
HMC0451	2	328	100	79.4	36.0	(16x0.193) BC	20	0.50		0.181	4.60	
HMC0452	3	328	100	92.6	42.0	(16x0.193) BC	20	0.50		0.189	4.80	
HMC0453	4	328	100	123.5	56.0	(16x0.193) BC	20	0.50		0.228	5.80	
HMC0454	5	328	100	134.5	61.0	(16x0.193) BC	20	0.50		0.248	6.30	
HMC0455	6	328	100	156.5	71.0	(16x0.193) BC	20	0.50		0.252	6.40	
HMC0456	7	328	100	169.8	77.0	(16x0.193) BC	20	0.50		0.256	6.50	
HMC0457	8	328	100	202.8	92.0	(16x0.193) BC	20	0.50		0.283	7.20	
HMC0458	10	328	100	249.1	113.0	(16x0.193) BC	20	0.50		0.335	8.50	
HMC0459	12	328	100	337.3	153.0	(16x0.193) BC	20	0.50		0.354	9.00	
HMC0461	2	328	100	92.6	42.0	(22x0.193) BC	18	0.75		0.209	5.30	
HMC0462	3	328	100	130.1	59.0	(22x0.193) BC	18	0.75		0.244	6.20	
HMC0463	4	328	100	143.3	65.0	(22x0.193) BC	18	0.75		0.248	6.30	
HMC0464	5	328	100	165.3	75.0	(22x0.193) BC	18	0.75		0.264	6.70	
HMC0465	6	328	100	196.2	89.0	(22x0.193) BC	18	0.75		0.268	6.80	
HMC0466	7	328	100	209.4	95.0	(22x0.193) BC	18	0.75		0.276	7.00	
HMC0467	8	328	100	244.7	111.0	(22x0.193) BC	18	0.75		0.299	7.60	
HMC0468	10	328	100	306.4	139.0	(22x0.193) BC	18	0.75		0.358	9.10	
HMC0469	12	328	100	350.5	159.0	(22x0.193) BC	18	0.75		0.374	9.50	
HMC0471	2	328	100	123.5	56.0	(20x0.243) BC	17	1.00		0.240	6.10	
HMC0472	3	328	100	160.9	73.0	(20x0.243) BC	17	1.00		0.248	6.30	
HMC0473	4	328	100	213.8	97.0	(20x0.243) BC	17	1.00		0.291	7.40	
HMC0474	5	328	100	238.1	108.0	(20x0.243) BC	17	1.00		0.311	7.90	
HMC0475	6	328	100	264.6	120.0	(20x0.243) BC	17	1.00		0.319	8.10	
HMC0476	7	328	100	304.2	138.0	(20x0.243) BC	17	1.00		0.335	8.50	
HMC0477	8	328	100	357.1	162.0	(20x0.243) BC	17	1.00		0.370	9.40	

BC = Bare Copper • DCR = DC resistance

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PVC LiY(St)CY

Multicore Cables
500V, 80°C

De-scription	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
80°C • 22 - 14 AWG • Stranded Bare Copper Wire • Overall Alufoil • >65 % Overall Bare Copper Braid *(continued)*													
PVC Insulation (Color Code: see chart 11, Tech Info Section) • **Grey PVC Flame Retardant Jacket**													
		IEC 332								Overall Alufoil + Overall 65 % BC Braid			- Survey and data transmission - Check and drive systems - Measure and monitor systems - Interconnection of computer networks and outskirts interface
	HMC0479	2	328	100	213.8	97.0	(28x0.245) BC	16	1.50		0.272	6.90	
	HMC0480	3	328	100	213.8	97.0	(28x0.245) BC	16	1.50		0.280	7.10	
	HMC0481	4	328	100	213.8	97.0	(28x0.245) BC	16	1.50		0.331	8.40	
	HMC0482	5	328	100	213.8	97.0	(28x0.245) BC	16	1.50		0.362	9.20	
	HMC0483	6	328	100	213.8	97.0	(28x0.245) BC	16	1.50		0.374	9.50	
	HMC0484	3	328	100	213.8	97.0	(48x0.243) BC	14	2.50		0.319	8.10	
	HMC0485	4	328	100	363.8	165.0	(48x0.243) BC	14	2.50		0.366	9.30	



BC = Bare Copper • DCR = DC resistance

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PVC LiY CY

Multicore Cables
750V, 80°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
80°C • 24 - 14 AWG • Stranded Bare or Tinned Copper Wire • >80 % Overall Bare Copper Braid													
PVC Insulation (Color Code: see chart 11, Tech Info Section) • **Grey Oil Proof and Flame Retardant PVC Jacket**													
IEC 332										+ Overall 80 % BC Braid			- Survey and data transmission - Check and drive systems - Measure and monitor systems - Interconnection of computer networks and outskirts interface
	HMC0486	1	328	100	33.1	15.0	(8x0.193) BC	24	0.25		0.118	3.00	
	HMC0487	2	328	100	57.3	26.0	(8x0.193) BC	24	0.25		0.161	4.10	
	HMC0488	3	328	100	70.5	32.0	(8x0.193) BC	24	0.25		0.173	4.40	
	HMC0489	4	328	100	79.4	36.0	(8x0.193) BC	24	0.25		0.181	4.60	
	HMC0490	5	328	100	103.6	47.0	(8x0.193) BC	24	0.25		0.217	5.50	
	HMC0491	6	328	100	112.4	51.0	(8x0.193) BC	24	0.25		0.220	5.60	
	HMC0492	7	328	100	127.9	58.0	(8x0.193) BC	24	0.25		0.228	5.80	
	HMC0493	8	328	100	136.7	62.0	(8x0.193) BC	24	0.25		0.236	6.00	
	HMC0494	1	328	100	37.5	17.0	(11x0.193) BC	22	0.35		0.122	3.10	
	HMC0495	2	328	100	72.8	33.0	(11x0.193) BC	22	0.35		0.173	4.40	
	HMC0496	3	328	100	79.4	36.0	(11x0.193) BC	22	0.35		0.181	4.60	
	HMC0497	4	328	100	90.4	41.0	(11x0.193) BC	22	0.35		0.193	4.90	
	HMC0498	5	328	100	114.6	52.0	(11x0.193) BC	22	0.35		0.232	5.90	
	HMC0499	6	328	100	125.7	57.0	(11x0.193) BC	22	0.35		0.236	6.00	
	HMC0500	7	328	100	149.9	68.0	(11x0.193) BC	22	0.35		0.240	6.10	
	HMC0501	8	328	100	174.2	79.0	(11x0.193) BC	22	0.35		0.248	6.30	
	HMC0502	1	328	100	39.7	18.0	(16x0.193) BC	20	0.50		0.126	3.20	
	HMC0503	2	328	100	81.6	37.0	(16x0.193) BC	20	0.50		0.185	4.70	
	HMC0504	3	328	100	94.8	43.0	(16x0.193) BC	20	0.50		0.193	4.90	
	HMC0505	4	328	100	125.7	57.0	(16x0.193) BC	20	0.50		0.232	5.90	
	HMC0506	5	328	100	136.7	62.0	(16x0.193) BC	20	0.50		0.252	6.40	
	HMC0507	6	328	100	158.7	72.0	(16x0.193) BC	20	0.50		0.256	6.50	
	HMC0508	7	328	100	172.0	78.0	(16x0.193) BC	20	0.50		0.260	6.60	
	HMC0509	8	328	100	211.6	96.0	(16x0.193) BC	20	0.50		0.287	7.30	
	HMC0510	10	328	100	251.3	114.0	(16x0.193) BC	20	0.50		0.339	8.60	
	HMC0511	2	328	100	97.0	44.0	(22x0.193) BC	18	0.75		0.213	5.40	
	HMC0512	3	328	100	130.1	59.0	(22x0.193) BC	18	0.75		0.248	6.30	
	HMC0513	4	328	100	145.5	66.0	(22x0.193) BC	18	0.75		0.268	6.80	
	HMC0514	2	328	100	125.7	57.0	(20x0.243) BC	17	1.00		0.244	6.20	
	HMC0515	3	328	100	163.1	74.0	(20x0.243) BC	17	1.00		0.252	6.40	
	HMC0516	4	328	100	216.1	98.0	(20x0.243) BC	17	1.00		0.295	7.50	
	HMC0517	5	328	100	240.3	109.0	(20x0.243) BC	17	1.00		0.315	8.00	

BC = Bare Copper • DCR = DC resistance

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PVC LiY CY

Multicore Cables
750V, 80°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
80°C • 24 - 14 AWG • Stranded Bare or Tinned Copper Wire • >80% Overall Bare Copper Braid *(continued)*													
PVC Insulation (Color Code: see chart 11, Tech Info Section) • **Grey Oil Proof and Flame Retardant PVC Jacket**													
		IEC 332								+ Overall 80% BC Braid			- Survey and data transmission - Check and drive systems - Measure and monitor systems - Interconnection of computer networks and outskirts interface
	HMC0518	2	328	100	169.8	77.0	(28x0.245) BC	16	1.50		0.276	7.00	
	HMC0519	3	328	100	207.2	94.0	(28x0.245) BC	16	1.50		0.287	7.30	
	HMC0520	4	328	100	269.0	122.0	(28x0.245) BC	16	1.50		0.335	8.50	
	HMC0521	5	328	100	363.8	165.0	(28x0.245) BC	16	1.50		0.386	9.80	
	HMC0522	2	328	100	231.5	105.0	(48x0.243) BC	14	2.50		0.327	8.30	
	HMC0523	3	328	100	319.7	145.0	(48x0.243) BC	14	2.50		0.339	8.60	

PVC 07BQ-F

Multicore Cables
450/750V, 75°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD Inch	Nominal OD mm	Application
80°C • 17 - 14 AWG • Stranded Bare Copper Wire													
PVC Insulation (Color Code: see chart 12, Tech Info Section) • **Orange Oil Resistant PUR Jacket**													
										Unshielded			- Small electrotools - For mobile tools, not for heavy duty
	HMC0524	2	328	100	134.5	61.0	(20x0.243) BC	17	1.00		0.268	6.80	
	HMC0525	3	328	100	154.3	70.0	(20x0.243) BC	17	1.00		0.272	6.90	
	HMC0526	4	328	100	216.1	98.0	(20x0.243) BC	17	1.00		0.315	8.00	
	HMC0527	2	328	100	176.4	80.0	(28x0.245) BC	16	1.50		0.299	7.60	
	HMC0528	3	328	100	216.1	98.0	(28x0.245) BC	16	1.50		0.323	8.20	
	HMC0529	4	328	100	297.6	135.0	(28x0.245) BC	16	1.50		0.366	9.30	
	HMC0530	3	328	100	350.5	159.0	(48x0.243) BC	14	2.50		0.398	10.10	

BC = Bare Copper • DCR = DC resistance

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BELDEN
SENDING ALL THE RIGHT SIGNALS



Paired Cables

5

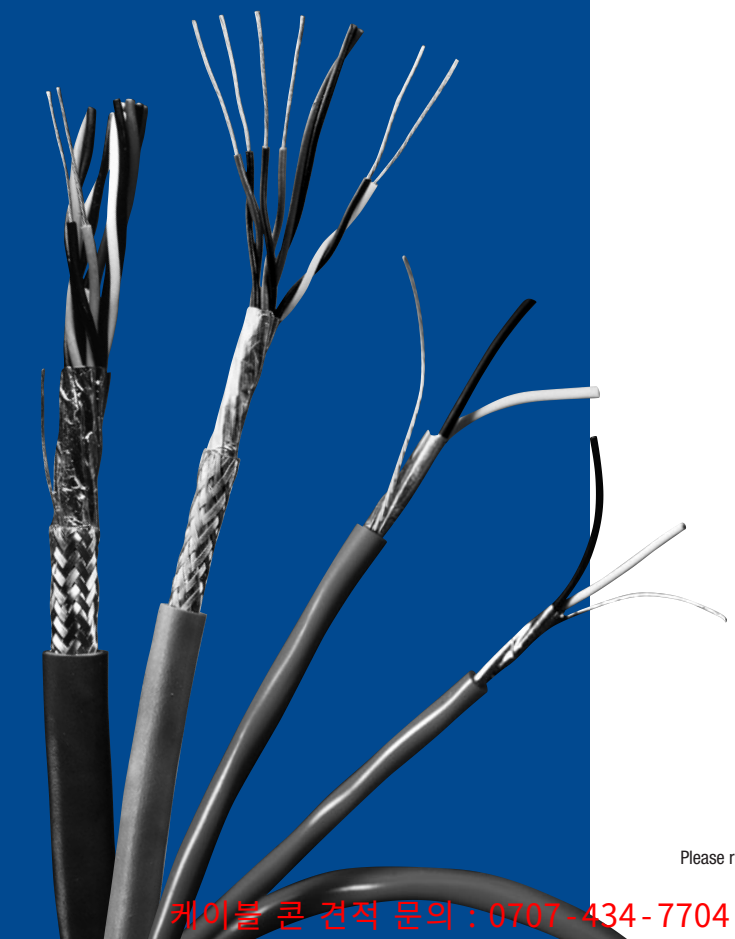


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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

Pairing with Belden

Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than multi-conductor cables.

Partnership with Belden means solutions to problems with the right cables to provide the right performance for the right price.

Key Applications

- Transmitters (single ended)
- Devices
- Multipoint networks
- High impedance drives
- Micro processor controls
- Converters
- Repeaters

Special Features

- Belden paired cables are offered in many variations including plenum and high-temperature versions. Variations include:
  - Gage sizes
  - Dimensions
  - Insulation materials
  - Shielding configurations
  - Jacketing materials

- Paired cables packaging: Belden's unique UnReel® cable dispenser is available for many of the multi-conductor products listed in this section. The letter "U" before the specified put-up length denotes UnReel® packaging.

- Temperature versions to meet the technical requirements of many different types of systems.

Availability

Most of our paired cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a multi-conductor cable in this catalog section that meets your technical requirements, see our U.S. Master Catalog or contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Introduction

Selection Guide: Shielded Multi-Pair Computer Cables RS-232, RS-422, and RS-485 Applications*

Specifications			Cable Series** 9804	8132	9829	8332	9501	8102	9729	8162	9680	8302	8777	9873	9773
Conductor Size: (AWG)		28	✓	✓											
		24			✓	✓	✓	✓	✓	✓	✓				
		22										✓	✓		
		20												✓	
		18													✓
		Page No.	5.13	5.14	5.16	5.15	5.7	5.17	5.20	5.25	5.9	5.18	5.22	5.23	5.23
Insulation:	S-R PVC					✓	✓					✓			
	Polyethylene				✓						✓			✓	✓
	Polypropylene		✓										✓		
	Datalene®†			✓				✓	✓	✓					
Shield:	Overall Foil						✓				✓				
	Individual Foil								✓	✓			✓	✓	✓
	Overall Foil/Braid		✓	✓	✓	✓		✓		✓		✓			
	Braid Coverage		90%	65%	65%	65%		65%		65%		65%			
Drain Wire:	(see key below)		●	●	●	×	●	●	▲	▲	●	×	▲	▲	▲
No. of Pairs	Available:	1					✓								
		2	✓	✓	✓	✓	✓	✓	✓	✓		✓			
		3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		5	✓	✓	✓	✓	✓	✓		✓		✓			
		6			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		7	✓		✓	✓	✓	✓		✓		✓			
		8		✓			✓	✓		✓		✓			
		9	✓		✓		✓		✓		✓		✓	✓	✓
		10			✓	✓	✓	✓		✓		✓			
		11							✓				✓	✓	
		12	✓		✓				✓				✓	✓	✓
		12.5		✓		✓		✓			✓	✓			
		13	✓												
		15				✓	✓	✓	✓	✓		✓	✓	✓	✓
		17							✓				✓		
		18	✓	✓	✓	✓		✓		✓		✓			
		19					✓		✓				✓		
		25	✓	✓	✓	✓	✓	✓		✓		✓			
		27							✓				✓		
		31	✓												
		37											✓		
		50					✓								
Capacitance†† (pF/m)			50.8	36.1	50.8	98.4	98.4	41.0	41.0	41.0	50.8	114.8	98.4	98.4	98.4

S-R = Semi-Rigid

* Refer to specifications for recommendations.
** All cables are UL-listed.
† Foam high density polyethylene.
†† Capacitance may vary on some cables.

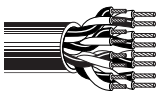
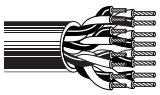
Drain Wire Key:
● = Drain wire overall.
▲ = Drain wire each pair.
× = No drain wire.

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Unshielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Twisted Pair													
PVC Insulation • Chrome PVC Jacket													
300V RMS		NEC: CMG CEC: CMG FT4					0.96 mm 20 AWG (7x28) TC	0.064	1.62	Unshielded			see chart 3 (Tech Info Section)
	**8205**	1-Pair	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	2.6 9.0 9.0 18.1 18.1	1.2 4.1 4.1 8.2 8.2					0.180	4.57	
300V 80°C UL AWM Style 2464	**9750**	3-Pair	500 1000	152 305	26.5 50.0	12.0 22.7					0.299	7.59	
	**9751**	6-Pair	100 500 1000	31 152 305	9.0 45.2 89.3	4.1 20.5 40.5					0.366	9.30	
	9752	9-Pair	100 500 1000	31 152 305	13.0 65.7 125.2	5.9 29.8 56.8					0.429	10.90	
	9755	15-Pair	100 1000	31 305	17.9 194.4	8.1 88.2					0.545	13.84	
18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • Twisted Pair													
PVC Insulation • Chrome PVC Jacket													
300V RMS	**8461**	NEC: CMG CEC: CMG FT4	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.1 14.1 13.4 26.0 26.9	1.4 6.4 6.1 11.8 12.2	1.22 mm 18 AWG (7x26) TC	0.092	2.34	Unshielded	0.234	5.94	Black, White
 1-Pair													
18 AWG • Stranded (16x30) 1.2 mm Tinned Copper • Twisted Pair													
PVC Insulation • Chrome PVC Jacket													
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					1.20 mm 18 AWG (16x30) TC	0.076	1.92	Unshielded			see chart 3 (Tech Info Section)
	**9740**	1-Pair	U-500 500 U-1000 1000	U-152 152 U-305 305	12.6 12.6 24.0 24.0	5.7 5.7 10.9 10.9					0.210	5.33	
	For Plenum version of 9740, see 89740, 87740 or 82740.												
	9156	2-Pair	U-500 500 U-1000 1000	U-152 152 U-305 305	24.9 26.9 48.9 51.1	11.3 12.2 22.2 23.2					0.333	8.46	

TC = Tinned Copper • DCR = DC resistance

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Unshielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Stranded (16x30) 1.2 mm Tinned Copper • Twisted Pair *(continued)*													
PVC Insulation • Chrome PVC Jacket													
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					1.20 mm 18 AWG (16x30) TC	0.076	1.92	Unshielded			see chart 3 (Tech Info Section)
	**8690**	3-Pair	100 U-500 500 1000	31 U-152 152 305	7.1 32.6 34.0 65.0	3.2 14.8 15.4 29.5					0.347	8.81	
	9157	4-Pair	100 500 1000	31 152 305	8.4 41.0 83.1	3.8 18.6 37.7					0.381	9.68	
	9159	5-Pair	500 1000	152 305	50.0 99.2	22.7 45.0					0.391	9.93	
18 AWG • Stranded (19x30) 1.2 mm Tinned Copper • Twisted Pair													
Plenum • FEP Insulation • Natural Flamarrest® Jacket													
300V RMS Non-conduit	**82740**	NEC: CMP CEC: CMP FT6	U-1000 † 1000	U-305 305	17.0 16.1	7.7 7.3	1.24 mm 18 AWG (19x30) TC	0.061	1.54	Unshielded	0.147	3.73	Black, Red
 1-Pair													
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair													
PVC Insulation • Chrome PVC Jacket													
300V 60°C UL AWM Style 2598	**8471**	NEC: CMG CEC: CMG FT4	U-500 500 U-1000 1000	U-152 152 U-305 305	20.9 20.1 41.0 43.0	9.5 9.1 18.6 19.5	1.47 mm 16 AWG (19x29) TC	0.104	2.63	Unshielded	0.274	6.96	Black, White
 1-Pair													
14 AWG • Stranded (41x30) 1.9 mm Tinned Copper • Twisted Pair													
PVC Insulation • Chrome PVC Jacket													
600V 90°C UL AWM Style 2587	**8473**	NEC: CL3 CEC: FAS 90 FT4	U-500 500 1000	U-152 152 305	29.1 30.6 58.2	13.2 13.9 26.4	1.85 mm 14 AWG (41x30) TC	0.135	3.43	Unshielded	0.340	8.64	Black, White
 1-Pair													
12 AWG • Stranded (65x30) 2.4 mm Tinned Copper • Twisted Pair													
PVC Insulation • Chrome PVC Jacket													
600V 90°C UL AWM Style 2587	**8477**	NEC: CL3R	U-500 500 1000	U-152 152 305	41.4 43.4 85.1	18.8 19.7 38.6	2.41 mm 12 AWG (65x30) TC	0.159	4.03	Unshielded	0.386	9.80	Black, White
 1-Pair													

TC = Tinned Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.

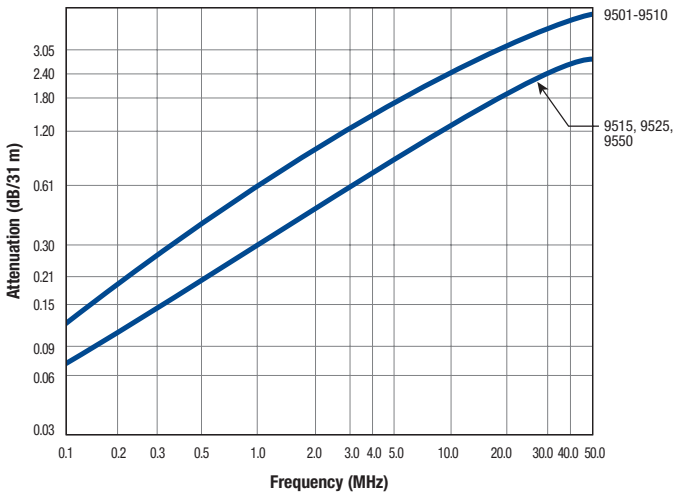
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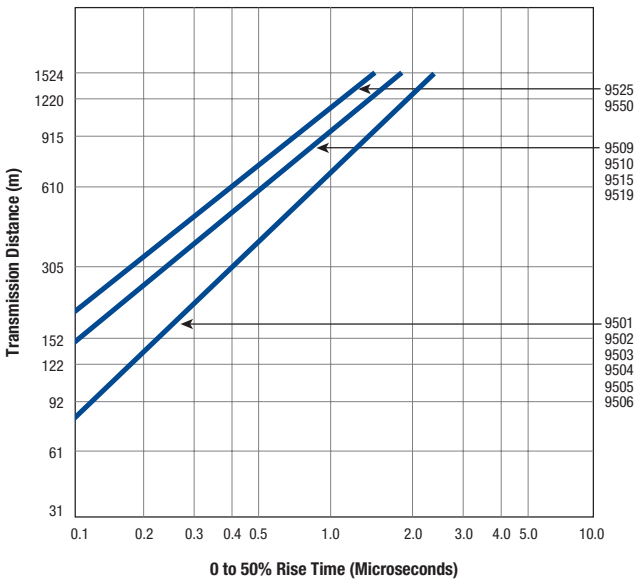
Overall Beldfoil® Shield

Cable Characteristics

Attenuation

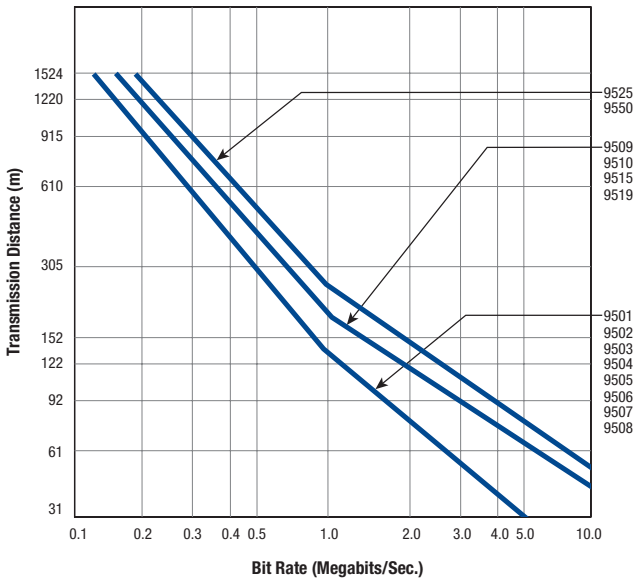


Rise Time



Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 Ohm and 10% to 90% rise time less than 5 nanoseconds.

Bit Rate



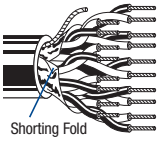
Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.

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Overall Beldfoil® Shield

High-Temperature Control, Instrumentation Cables and Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	pF/ft.	pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire																		
Semi-Rigid PVC Insulation • Chrome PVC Jacket																		
300V 80°C UL AWM Style 2464 CSA AWM I A		NEC: CMG CEC: CMG FT4					0.61 mm 24 AWG (7x32) TC	0.044	1.12	Overall Beldfoil® + Drain Wire (24 AWG TC)			75	60%				see chart 3 (Tech Info Section)
																		
9501	1-Pair		100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	2.2 7.5 7.1 14.1 14.1	1.0 3.4 3.2 6.4 6.4					0.156	3.96			CDR/CDR CDR/SCR	40 74	131 243	
9502†	2-Pair		100 U-500 500 U-1000 1000 10000	31 U-152 152 U-305 305 3048	3.7 15.0 14.6 28.0 30.0 290.6	1.7 6.8 6.6 12.7 13.6 131.8					0.222	5.64			CDR/CDR CDR/SCR	30 50	98 164	
P-MSHA-SC-7K-182037							For Plenum version of 9502, see 82502.											
9503	3-Pair		100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.3 15.0 14.6 28.0 30.0	1.5 6.8 6.6 12.7 13.6					0.232	5.89			CDR/CDR CDR/SCR	30 50	98 164	
							For Plenum version of 9503, see 89503 or 82503.											
9504	4-Pair		100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	4.0 18.1 16.5 35.1 35.9	1.8 8.2 7.5 15.9 16.3					0.265	6.73			CDR/CDR CDR/SCR	30 50	98 164	
							For Plenum version of 9504, see 89504 or 82504.											
9505	5-Pair		100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	4.6 21.6 22.9 41.0 43.0	2.1 9.8 10.4 18.6 19.5					0.289	7.34			CDR/CDR CDR/SCR	30 50	98 164	
							For Plenum version of 9505, see 89505 or 82505.											
9506	6-Pair		100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	5.1 22.9 24.9 45.0 47.2	2.3 10.4 11.3 20.4 21.4					0.289	7.34			CDR/CDR CDR/SCR	30 50	98 164	
							For Plenum version of 9506, see 82506.											
9507	7-Pair		100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	5.5 24.9 27.1 49.2 50.9	2.5 11.3 12.3 22.3 23.1					0.294	7.47			CDR/CDR CDR/SCR	30 50	98 164	
9508	8-Pair		100 500 1000	31 152 305	6.4 30.4 60.0	2.9 13.8 27.2					0.324	8.23			CDR/CDR CDR/SCR	30 50	98 164	
9509	9-Pair		100 500 1000	31 152 305	6.8 33.5 67.0	3.1 15.2 30.4					0.334	8.48			CDR/CDR CDR/SCR	30 50	98 164	
							For Plenum version of 9509, see 82509.											
9510	10-Pair		100 500 1000	31 152 305	7.5 36.6 74.1	3.4 16.6 33.6					0.368	9.34			CDR/CDR CDR/SCR	30 50	98 164	
9515	15-Pair		100 500 1000	31 152 305	10.4 52.0 102.3	4.7 23.6 46.4					0.417	10.60			CDR/CDR CDR/SCR	30 50	98 164	
9519	19-Pair		100 500 1000	31 152 305	12.8 61.7 122.4	5.8 28.0 55.5					0.449	11.40			CDR/CDR CDR/SCR	30 50	98 164	

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration certification. Request quotations of RG/U cables not listed.

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Overall Beldfoil® Shield

High-Temperature Control, Instrumentation Cables and Computer Cables for EIA RS-232 Applications

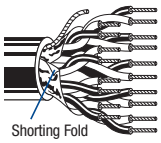
Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire *(continued)*

Semi-Rigid PVC Insulation • Chrome PVC Jacket

300V 80°C
UL AWM Style 2464
CSA AWM I A

NEC:
CMG
CEC:
CMG FT4



0.61 mm 24 AWG (7x32) TC | 0.044 | 1.12 | Overall Beldfoil® + Drain Wire (24 AWG TC) | | | 75 | 60% | | | | see chart 3 (Tech Info Section)

9525	25-Pair	100	31	16.1	7.3					0.504	12.80			CDR/CDR	30	98
		500	152	79.6	36.1									CDR/SCR	50	164
		1000	305	155.0	70.3											
9550	50-Pair	100	31	32.0	14.5					0.709	18.00			CDR/CDR	30	98
		† 500	152	153.9	69.8									CDR/SCR	50	164
		† 1000	305	311.7	141.4											

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire

Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS

NEC:
CMP
CEC:
CMP FT6



0.61 mm 24 AWG (7x32) TC | 0.036 | 0.91 | Overall Beldfoil® + Drain Wire (24 AWG TC) | | | | | | | | | see chart 3 (Tech Info Section)

82641	1-Pair	†† U-1000	U-305	9.0	4.1					0.106	2.69			CDR/CDR	31	102
		†† 1000	305	7.9	3.6									CDR/SCR	59	194
82502	2-Pair	†† U-500	U-152	7.9	3.6					0.162	4.11			CDR/CDR	25	82
		†† U-1000	U-305	16.1	7.3									CDR/SCR	45	148
		†† 1000	305	14.1	6.4											
82503	3-Pair	†† U-1000	U-305	19.0	8.6					0.169	4.29			CDR/CDR	25	82
		†† 1000	305	18.1	8.2									CDR/SCR	45	148
82504	4-Pair	†† U-1000	U-305	24.0	10.9					0.193	4.90			CDR/CDR	25	82
		†† 1000	305	26.0	11.8									CDR/SCR	45	148
82505	5-Pair	†† U-1000	U-305	29.1	13.2					0.196	4.98			CDR/CDR	25	82
		†† 1000	305	30.9	14.0									CDR/SCR	45	148
82506	6-Pair	†† U-500	U-152	17.6	8.0					0.209	5.31			CDR/CDR	25	82
		†† U-1000	U-305	34.2	15.5									CDR/SCR	45	148
		†† 1000	305	35.1	15.9											
82509	9-Pair	†† 1000	305	49.2	22.3					0.246	6.25			CDR/CDR	23	75
														CDR/SCR	42	138

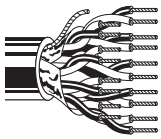
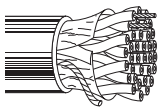
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Spools are one piece, but length may vary 0% to +20% from length shown.
†† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel® from length shown.

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Overall Beldfoil® Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.054	1.37	Overall Beldfoil® + Drain Wire (24 AWG TC)			100	66%				see chart 5 (Tech Info Section)
																		
9680	3-Pair		500 1000	152 305	17.0 38.1	7.7 17.3					0.282	7.16			CDR/CDR CDR/SCR	15 28	51 90	
9681	4-Pair		500 1000	152 305	24.0 45.2	10.9 20.5					0.307	7.80			CDR/CDR CDR/SCR	15 28	51 90	
9682	6-Pair		500 1000	152 305	29.5 56.2	13.4 25.5					0.342	8.69			CDR/CDR CDR/SCR	15 28	51 90	
9683	9-Pair		500 1000	152 305	37.9 79.1	17.2 35.9					0.398	10.10			CDR/CDR CDR/SCR	15 28	51 90	
9684	12.5-Pair (12 pairs + 1 single)		500 1000	152 305	49.8 97.2	22.6 44.1					0.445	11.30			CDR/CDR CDR/SCR	15 28	51 90	
Datalene® Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.049	1.24	Overall Beldfoil® + Drain Wire (24 AWG TC)			100	78%				see chart 5 (Tech Info Section)
																		
1419A	2-Pair		500 1000 10000	152 305 3048	13.4 30.0 310.6	6.1 13.6 140.9					0.248	6.30			CDR/CDR CDR/SCR	13 22	43 72	
1420A	3-Pair		500 1000 10000	152 305 3048	15.0 34.2 340.6	6.8 15.5 154.5					0.261	6.63			CDR/CDR CDR/SCR	13 22	43 72	
1421A	4-Pair		500 1000	152 305	16.5 37.0	7.5 16.8					0.280	7.11			CDR/CDR CDR/SCR	13 22	43 72	
1422A	5-Pair		500 1000	152 305	23.1 43.0	10.5 19.5					0.294	7.47			CDR/CDR CDR/SCR	13 22	43 72	
1423A	6-Pair		500 1000 10000	152 305 3048	25.1 48.1 501.1	11.4 21.8 227.3					0.319	8.10			CDR/CDR CDR/SCR	13 22	43 72	
1424A	12.5-Pair (12 pairs + 1 single)		500 1000	152 305	43.0 85.1	19.5 36.6					0.418	10.62			CDR/CDR CDR/SCR	13 22	43 72	
1425A	15-Pair		500 1000	152 305	53.1 99.2	24.1 45.0					0.473	12.01			CDR/CDR CDR/SCR	13 22	43 72	

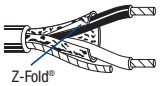
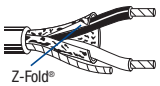
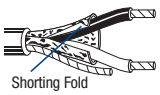
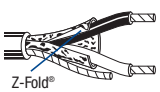
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
22 AWG • Solid 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 22 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2092	**8761**	NEC: CM CEC: CM	U-500 500 U-1000 1000 2000 5000 † 10000	U-152 152 U-305 305 610 1524 3048	9.0 9.0 17.0 18.1 35.9 90.2 170.4	4.1 4.1 7.7 8.2 16.3 40.9 77.3	0.64 mm 22 AWG Solid TC	0.057	1.46	Overall Beldfoil® + Drain Wire (22 AWG TC)	0.175	4.45	–	–	CDR/CDR CDR/SCR	24 47	79 154	Black, Clear
 Z-Fold®																		
1-Pair		For Plenum versions of 8761, see 88761, 87761 or 82761.																
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 22 AWG Tinned Copper Drain Wire																		
PVC Insulation • Beige PVC Jacket																		
300V 80°C UL AWM Style 2464	**9154**	NEC: CMG CEC: CMG FT4	U-500 500 U-1000 1000	U-152 152 U-305 305	11.5 12.1 22.0 23.1	5.2 5.5 10.0 10.5	0.96 mm 20 AWG (7x28) TC	0.066	1.68	Overall Beldfoil® + Drain Wire (22 AWG TC)	0.198	5.03	–	–	CDR/CDR CDR/SCR	60 100	197 328	Black, Red
 Z-Fold®																		
1-Pair																		
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2092	**8762**	NEC: CM CEC: CM	100 250 U-500 500 U-1000 1000 2000 10000	31 76 U-152 152 U-305 305 610 3048	3.3 6.2 12.1 12.1 23.1 23.1 46.1 240.5	1.5 2.8 5.5 5.5 10.5 10.5 20.9 109.1	0.96 mm 20 AWG (7x28) TC	0.070	1.78	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.204	5.18	–	–	CDR/CDR CDR/SCR	27 49	89 161	Black, Clear
 Shorting Fold																		
1-Pair																		
Polyethylene Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2092	**9464**	NEC: CM CEC: CM	U-500 U-1000	U-152 U-305	17.0 32.0	7.7 14.5	0.96 mm 20 AWG (7x28) TC	0.070	1.78	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.214	5.44	–	–	CDR/CDR CDR/SCR	27 49	89 161	Black, Clear
																		
1-Pair		The jacket and shield are bonded so both can be removed with automatic stripping equipment. Drain wire is on the inside of foil shield.																
18 AWG • Stranded (19x30) 1.2 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS	**82760**	NEC: CMP CEC: CMP FT6	†† U-500 †† U-1000 †† 1000	U-152 U-305 305	11.9 22.0 20.9	5.4 10.0 9.5	1.24 mm 18 AWG (19x30) TC	0.063	1.60	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.150	3.81	–	–	CDR/CDR CDR/SCR	51 97	167 318	Black, Red
 Z-Fold®																		
1-Pair																		

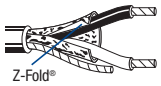
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 460 m (1500 ft.).
†† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel® from length shown.

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Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 18 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
600V 80°C UL AWM Style 20253	**8719**	NEC: CM CL2 CEC: CM	U-500 500 U-1000 1000 2000 5000 10000	U-152 152 U-305 305 610 1524 3048	24.5 25.6 47.0 50.0 100.3 245.6 509.9	11.1 11.6 21.3 22.7 45.5 111.4 231.3	1.47 mm 16 AWG (19x29) TC	0.122	3.09	Overall Beldfoil® + Drain Wire (18 AWG TC)	0.313	7.95	–	–	CDR/CDR CDR/SCR	23 44	75 144	Black, Clear
 Shorting Fold																		
1-Pair																		
14 AWG • Stranded (19x27) 1.9 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 16 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
600V 80°C UL AWM Style 20253	**8720**	NEC: CM CL2	U-500 500 1000 2000	U-152 152 305 610	34.0 35.1 71.2 138.2	15.4 15.9 32.3 62.7	1.85 mm 14 AWG (19x27) TC	0.137	3.47	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.355	9.02	–	–	CDR/CDR CDR/SCR	24 47	79 154	Black, Clear
 Z-Fold®																		
1-Pair																		
12 AWG • Stranded (19x25) 2.4 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 14 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
600V 80°C UL AWM Style 20253	**8718**	NEC: CL2	U-500 500 1000 2000	U-152 152 305 610	47.6 50.5 100.3 198.4	21.6 22.9 45.5 90.0	2.36 mm 12 AWG (19x25) TC	0.167	4.24	Overall Beldfoil® + Drain Wire (14 AWG TC)	0.400	10.16	–	–	CDR/CDR CDR/SCR	25 49	82 161	Black, Clear
 Z-Fold®																		
1-Pair																		

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

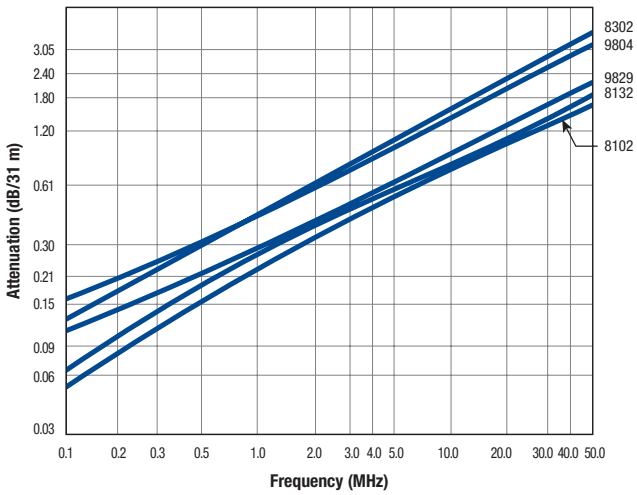
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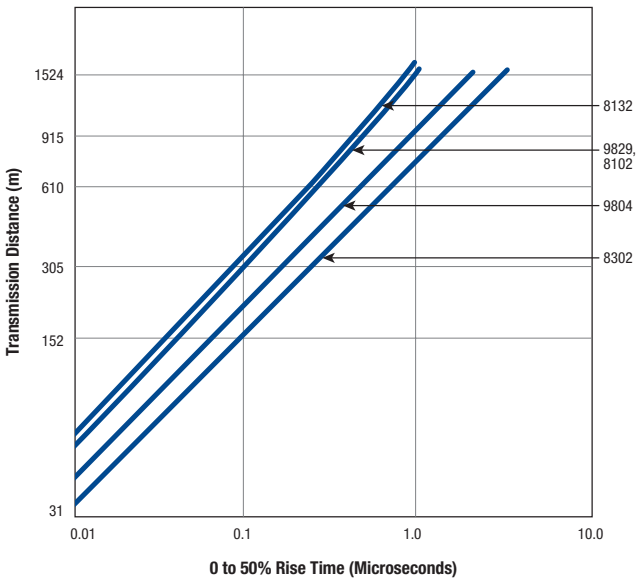
Overall Foil/Braid Shield

Cable Characteristics

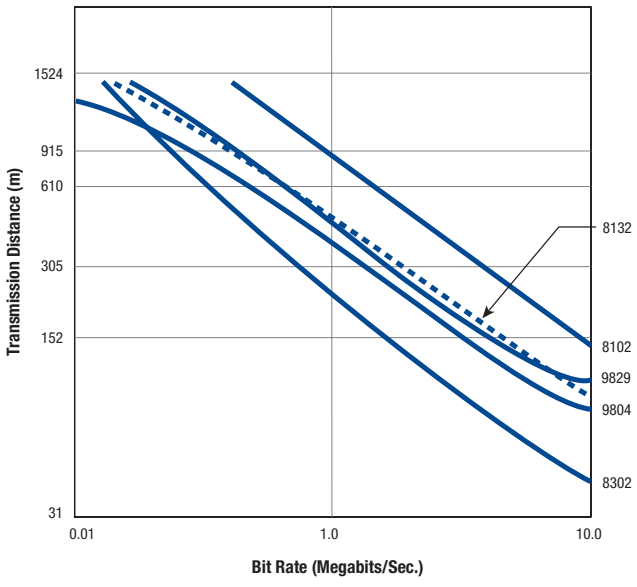
Attenuation



Rise Time



Bit Rate



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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code

28 AWG • Stranded (7x36) 0.4 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield + 90% TC Braid • 28 AWG TC Drain Wire

Polypropylene Insulation • Chrome PVC Jacket

30V 60°C
UL AWM Style 2960

NEC:
CL2

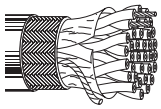
0.38 mm
28 AWG
(7x36) TC

0.033 | 0.84

Overall
Beldfoil®
+ Overall
90% TC Braid
+ Drain Wire
(28 AWG TC)

100 | 66%

see chart 3
(Tech Info Section)



9804	2-Pair	100 500 1000	31 152 305	4.0 14.6 32.0	1.8 6.6 14.5						0.214	5.44			CDR/CDR CDR/SCR	16 28	51 90	
9805	3-Pair	100 500 1000	31 152 305	4.2 15.4 35.1	1.9 7.0 15.9						0.222	5.64			CDR/CDR CDR/SCR	16 28	51 90	
9806	4-Pair	100 500 1000	31 152 305	4.4 17.4 39.0	2.0 7.9 17.7						0.237	6.02			CDR/CDR CDR/SCR	16 28	51 90	
9807	5-Pair	100 500 1000	31 152 305	4.4 19.6 39.0	2.0 8.9 17.7						0.240	6.10			CDR/CDR CDR/SCR	16 28	51 90	
9808	7-Pair	100 500 1000	31 152 305	4.9 20.5 44.1	2.2 9.3 20.0						0.256	6.50			CDR/CDR CDR/SCR	16 28	51 90	
9809	9-Pair	100 500 1000	31 152 305	5.7 24.9 53.1	2.6 11.3 24.1						0.290	7.37			CDR/CDR CDR/SCR	16 28	51 90	
9812	12-Pair	100 500 1000	31 152 305	6.6 31.1 62.2	3.0 14.1 28.2						0.319	8.10			CDR/CDR CDR/SCR	16 28	51 90	
9813	13-Pair	100 500 1000	31 152 305	7.1 34.2 66.1	3.2 15.5 30.0						0.336	8.53			CDR/CDR CDR/SCR	16 28	51 90	
9819	18-Pair	100 500 1000	31 152 305	8.4 41.0 82.2	3.8 18.6 37.3						0.365	9.27			CDR/CDR CDR/SCR	16 28	51 90	
9825	25-Pair	100 500 1000	31 152 305	9.9 54.7 108.2	4.5 24.8 49.1						0.429	10.90			CDR/CDR CDR/SCR	16 28	51 90	
9814	31-Pair	100 500 1000	31 152 305	11.9 64.2 127.2	5.4 29.1 57.7						0.462	11.73			CDR/CDR CDR/SCR	16 28	51 90	

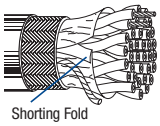
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Overall Foil / Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-485 Applications

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
28 AWG • Stranded (7x36) 0.4 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield + 65% TC Braid • 28 AWG TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919		NEC: CL2					0.38 mm 28 AWG (7x36) TC	0.044	1.12	Overall Beldfoil® + Overall 65% TC Braid + Drain Wire (28 AWG TC)			120	78%				see chart 5 (Tech Info Section)
 Shorting Fold																		
8132	2-Pair	100 500 1000	31 152 305	3.5 14.6 29.1	1.6 6.6 13.2					0.220	5.59			CDR/CDR CDR/SCR	11 20	36 66	
8133	3-Pair	100 500 1000	31 152 305	3.7 15.0 34.2	1.7 6.8 15.5					0.270	6.86			CDR/CDR CDR/SCR	11 20	36 66	
8134	4-Pair	100 500 1000	31 152 305	4.4 18.1 39.0	2.0 8.2 17.7					0.290	7.37			CDR/CDR CDR/SCR	11 20	36 66	
8135	5-Pair	100 1000	31 305	4.6 42.1	2.1 19.1					0.300	7.62			CDR/CDR CDR/SCR	11 20	36 66	
8138	8-Pair	100 500 1000	31 152 305	5.5 27.1 52.0	2.5 12.3 23.6					0.330	8.38			CDR/CDR CDR/SCR	11 20	36 66	
8142	12.5-Pair (12 pairs + 1 single)	100 500 1000	31 152 305	6.8 33.1 65.9	3.1 15.0 29.9					0.375	9.53			CDR/CDR CDR/SCR	11 20	36 66	
8148	18-Pair	100 500 1000	31 152 305	8.6 47.6 92.2	3.9 21.6 41.8					0.465	11.81			CDR/CDR CDR/SCR	11 20	36 66	
8155	25-Pair	100 500 1000	31 152 305	11.0 64.2 121.3	5.0 29.1 55.0					0.565	14.35			CDR/CDR CDR/SCR	11 20	36 66	

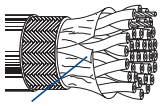
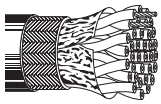
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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield + 65% Tinned Copper Braid																		
Semi-Rigid PVC Insulation • Chrome PVC Jacket																		
300V 80°C UL AWM Style 2464 CSA AWM I A		NEC: CMG CEC: CMG FT4					0.61 mm 24 AWG (7x32) TC	0.044	1.12	Overall Beldfoil® + Overall 65% TC Braid			75	60%				see chart 5 (Tech Info Section)
 Z-Fold®																		
	8332	2-Pair	100 500 1000	31 152 305	4.2 16.5 37.0	1.9 7.5 16.8					0.250	6.35			CDR/CDR CDR/SCR	30 50	98 164	
	8333	3-Pair	100 500 1000	31 152 305	4.9 20.5 44.3	2.2 9.3 20.1					0.265	6.73			CDR/CDR CDR/SCR	30 50	98 164	
	8334	4-Pair	100 500 1000	31 152 305	5.3 22.5 49.2	2.4 10.2 22.3					0.288	7.32			CDR/CDR CDR/SCR	30 50	98 164	
	8335	5-Pair	100 500 1000	31 152 305	6.0 29.5 57.1	2.7 13.4 25.9					0.295	7.49			CDR/CDR CDR/SCR	30 50	98 164	
	8336	6-Pair	100 500 1000	31 152 305	6.6 31.5 62.2	3.0 14.3 28.2					0.310	7.87			CDR/CDR CDR/SCR	30 50	98 164	
	8337	7-Pair	100 500 1000	31 152 305	6.8 32.8 65.0	3.1 14.9 29.5					0.321	8.15			CDR/CDR CDR/SCR	30 50	98 164	
	8340	10-Pair	100 500 1000	31 152 305	9.0 43.4 90.2	4.1 19.7 40.9					0.385	9.78			CDR/CDR CDR/SCR	30 50	98 164	
	8342	12.5-Pair (12 pairs + 1 single)	100 500 1000	31 152 305	11.0 55.1 109.1	5.0 25.0 49.5					0.405	10.29			CDR/CDR CDR/SCR	30 50	98 164	
	8345	15-Pair	500 1000	152 305	61.7 123.2	28.0 55.9					0.445	11.30			CDR/CDR CDR/SCR	30 50	98 164	
300V 80°C UL AWM Style 2464	**8348**	18-Pair	100 500 1000	31 152 305	14.1 78.9 152.8	6.4 35.8 69.3					0.480	12.19			CDR/CDR CDR/SCR	30 50	98 164	
	**8355**	25-Pair	500 1000	152 305	96.8 195.3	43.9 88.6					0.550	13.97			CDR/CDR CDR/SCR	30 50	98 164	

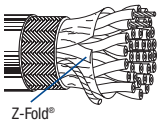
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Foil / Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm TC • Twisted Pair • Overall **Beldfoil®** Shield + 65 % Tinned Copper Braid • 24 AWG TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.054	1.37	Overall Beldfoil® + Overall 65 % TC Braid + Drain Wire (24 AWG TC)			100	66 %				see chart 5 (Tech Info Section)
 Z-Fold®																		
	9829	2-Pair	100 500 1000	31 152 305	4.6 22.0 43.0	2.1 10.0 19.5					0.291	7.39			CDR/CDR CDR/SCR	16 28	51 90	
	9830	3-Pair	500 1000	152 305	26.5 53.1	12.0 24.1					0.305	7.74			CDR/CDR CDR/SCR	16 28	51 90	
	9831	4-Pair	100 500 1000	31 152 305	6.2 30.0 58.2	2.8 13.6 26.4					0.330	8.38			CDR/CDR CDR/SCR	16 28	51 90	
	9832	5-Pair	100 500 1000	31 152 305	6.6 32.6 65.0	3.0 14.8 29.5					0.338	8.59			CDR/CDR CDR/SCR	16 28	51 90	

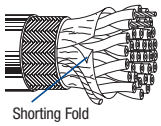
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm TC • Twisted Pair • Overall **Beldfoil®** Shield + 65% Tinned Copper Braid • 24 AWG TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.049	1.24	Overall Beldfoil® + Overall 65% TC Braid + Drain Wire (24 AWG TC)			100	78%				see chart 5 (Tech Info Section)
 Shorting Fold																		
8102	2-Pair		100 500 1000 10000	31 152 305 3048	4.2 17.0 38.1 380.7	1.9 7.7 17.3 172.7					0.270	6.86			CDR/CDR CDR/SCR	13 22	41 72	
8103	3-Pair		100 500 1000 10000	31 152 305 3048	4.6 19.6 42.1 431.0	2.1 8.9 19.1 195.5					0.283	7.19			CDR/CDR CDR/SCR	13 22	41 72	
8104	4-Pair		100 500 1000 10000	31 152 305 3048	5.1 20.9 46.1 491.0	2.3 9.5 20.9 222.7					0.302	7.67			CDR/CDR CDR/SCR	13 22	41 72	
8105	5-Pair		100 500 1000	31 152 305	5.7 28.0 53.1	2.6 12.7 24.1					0.316	8.03			CDR/CDR CDR/SCR	13 22	41 72	
8106	6-Pair		100 500 1000	31 152 305	6.4 30.6 58.2	2.9 13.9 26.4					0.341	8.66			CDR/CDR CDR/SCR	13 22	41 72	
8107	7-Pair		100 500 1000	31 152 305	6.8 33.1 63.1	3.1 15.0 28.6					0.341	8.66			CDR/CDR CDR/SCR	13 22	41 72	
8108	8-Pair		100 500 1000	31 152 305	7.7 37.7 72.3	3.5 17.1 32.8					0.370	9.40			CDR/CDR CDR/SCR	13 22	41 72	
8110	10-Pair		100 500 1000	31 152 305	8.2 45.6 90.2	3.7 20.7 40.9					0.427	10.85			CDR/CDR CDR/SCR	13 22	41 72	
8112	12.5-Pair (12 pairs + 1 single)		100 500 1000	31 152 305	9.3 51.4 101.2	4.2 23.3 45.9					0.440	11.18			CDR/CDR CDR/SCR	13 22	41 72	
8115	15-Pair		500 1000	152 305	63.7 116.2	28.9 52.7					0.495	12.57			CDR/CDR CDR/SCR	13 22	41 72	
8118	18-Pair		100 500 1000	31 152 305	13.2 70.5 144.4	6.0 32.0 65.5					0.537	13.64			CDR/CDR CDR/SCR	13 22	41 72	
8125	25-Pair		100 500 1000	31 152 305	20.7 98.1 191.4	9.4 44.5 86.8					0.632	16.05			CDR/CDR CDR/SCR	13 22	41 72	

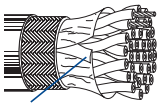
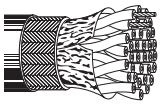
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield + 65% Tinned Copper Braid																		
Semi-Rigid PVC Insulation • Chrome PVC Jacket																		
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					0.76 mm 22 AWG (7x30) TC	0.051	1.30	Overall Beldfoil® + Overall 65% TC Braid			70	60%				see chart 3 (Tech Info Section)
 Z-Fold®																		
	8302	2-Pair	100 500 1000	31 152 305	4.4 19.0 41.0	2.0 8.6 18.6					0.260	6.60			CDR/CDR CDR/SCR	40 72	131 236	
	8303	3-Pair	100 500 1000	31 152 305	5.3 25.6 48.1	2.4 11.6 21.8					0.270	6.86			CDR/CDR CDR/SCR	35 63	115 207	
	8304	4-Pair	100 500 1000	31 152 305	6.6 32.4 65.0	3.0 14.7 29.5					0.320	8.13			CDR/CDR CDR/SCR	35 63	115 207	
	8305	5-Pair	100 500 1000	31 152 305	7.3 35.1 67.0	3.3 15.9 30.4					0.322	8.18			CDR/CDR CDR/SCR	35 63	115 207	
	8306	6-Pair	100 500 1000	31 152 305	7.9 39.7 78.9	3.6 18.0 35.8					0.348	8.84			CDR/CDR CDR/SCR	35 63	115 207	
	8307	7-Pair	100 500 1000	31 152 305	8.6 41.9 85.1	3.9 19.0 38.6					0.348	8.84			CDR/CDR CDR/SCR	35 63	115 207	
	8308	8-Pair	100 500 1000	31 152 305	10.4 50.0 101.4	4.7 22.7 46.0					0.384	9.75			CDR/CDR CDR/SCR	35 63	115 207	
300V 80°C UL AWM Style 2464	**8310**	10-Pair	100 500 1000	31 152 305	11.0 60.4 121.0	5.0 27.4 54.9					0.440	11.18			CDR/CDR CDR/SCR	35 63	115 207	
	**8312**	12.5-Pair (12 pairs + 1 single)	100 500 1000	31 152 305	13.0 72.3 140.7	5.9 32.8 63.8					0.455	11.56			CDR/CDR CDR/SCR	35 63	115 207	
	8315	15-Pair	100 500 1000	31 152 305	15.7 86.0 167.8	7.1 39.0 76.1					0.502	12.75			CDR/CDR CDR/SCR	35 63	115 207	
	8318	18-Pair	100 500 1000	31 152 305	17.6 97.4 196.4	8.0 44.2 89.1					0.535	13.59			CDR/CDR CDR/SCR	35 63	115 207	
	8325	25-Pair	100 500 1000	31 152 305	23.1 126.5 247.1	10.5 57.4 112.1					0.620	15.75			CDR/CDR CDR/SCR	35 63	115 207	

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

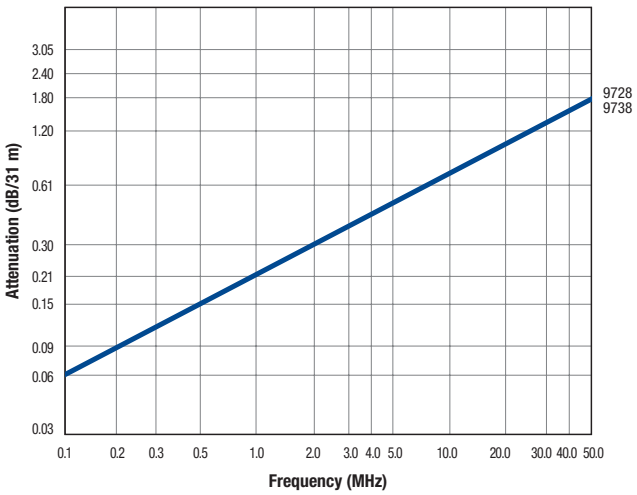
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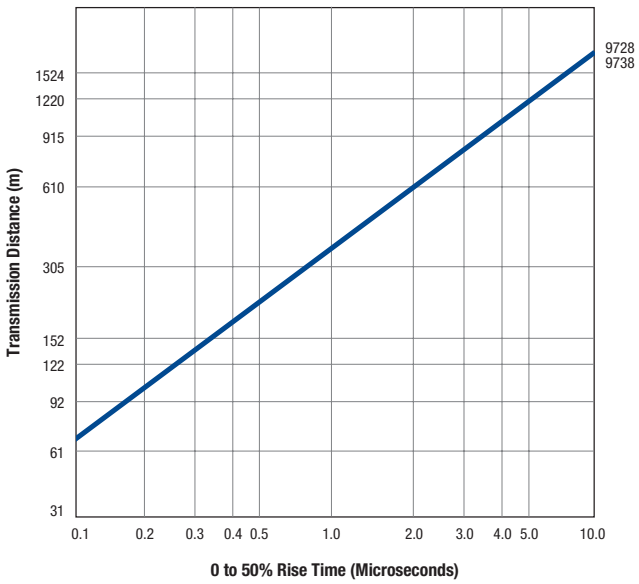
Individually Shielded

Cable Characteristics

Attenuation

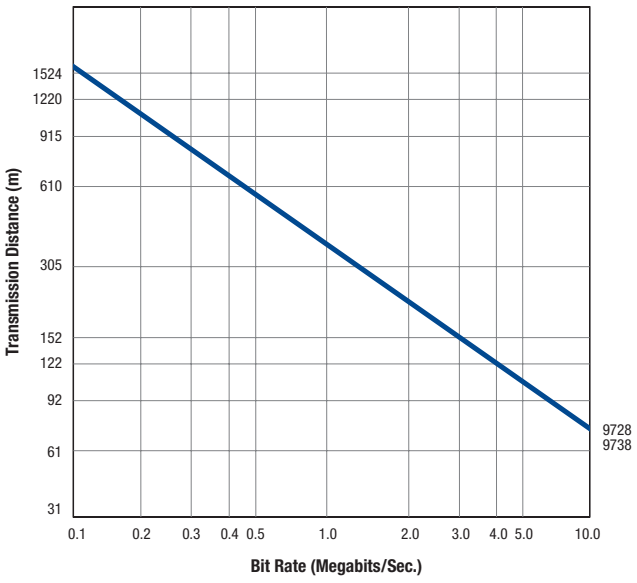


Rise Time



Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 Ohm and 10% to 90% rise time less than 5 nanoseconds.

Bit Rate



Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.

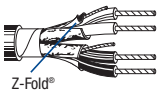
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Individually Shielded

Low-Capacitance 100 Ohm Computer Cables for EIA RS-422 and Digital Audio Applications

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 24 AWG Tinned Copper Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2493		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)			100	76%				see chart 3 (Tech Info Section)
9729	2-Pair	100	31	4.4	2.0						0.266	6.76			CDR/CDR CDR/SCR	13 23	41 76	
		500	152	20.5	9.3													
		1000	305	39.0	17.7													
		† 10000	3048	392.0	177.8													
For Plenum version of 9729, see 89729 or 82729.																		
9730	3-Pair	100	31	5.1	2.3						0.334	8.48			CDR/CDR CDR/SCR	13 23	41 76	
		500	152	24.5	11.1													
		1000	305	46.1	20.9													
		† 10000	3048	521.2	236.4													
For Plenum version of 9730, see 89730.																		
9728	4-Pair	100	31	6.0	2.7						0.363	9.22			CDR/CDR CDR/SCR	13 23	41 76	
		500	152	29.1	13.2													
		1000	305	50.9	23.1													
For Plenum version of 9728, see 89728.																		
9731	6-Pair	100	31	7.5	3.4						0.421	10.69			CDR/CDR CDR/SCR	13 23	41 76	
		500	152	42.1	19.1													
		1000	305	83.1	37.7													
For Plenum version of 9731, see 89731.																		
9732	9-Pair	100	31	9.9	4.5						0.488	12.40			CDR/CDR CDR/SCR	13 23	41 76	
		500	152	57.3	26.0													
		1000	305	106.0	48.1													
For Plenum version of 9732, see 89732.																		
9733	11-Pair	500	152	75.2	34.1						0.575	14.61			CDR/CDR CDR/SCR	13 23	41 76	
9734	12-Pair	500	152	79.6	36.1						0.575	14.61			CDR/CDR CDR/SCR	13 23	41 76	
		1000	305	154.3	70.0													
9735	15-Pair	500	152	95.2	43.2						0.639	16.23			CDR/CDR CDR/SCR	13 23	41 76	
		1000	305	185.4	84.1													
9736	17-Pair	500	152	103.6	47.0						0.671	17.04			CDR/CDR CDR/SCR	13 23	41 76	
		1000	305	210.5	95.5													
9737	19-Pair	1000	305	231.5	105.0						0.671	17.04			CDR/CDR CDR/SCR	13 23	41 76	
9738	27-Pair	1000	305	334.7	151.8						0.797	20.24			CDR/CDR CDR/SCR	13 23	41 76	



TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Spools are one piece, but length may vary ±10% from length shown.

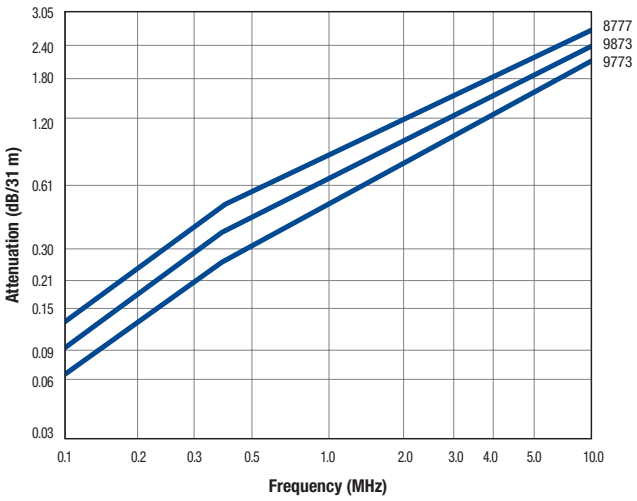
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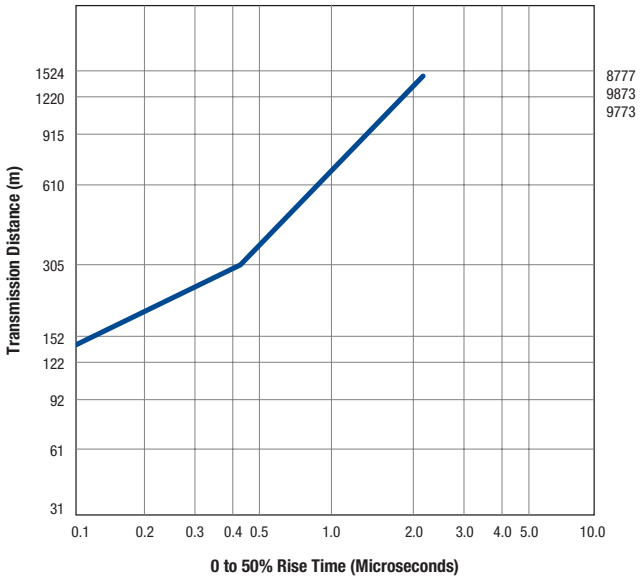
Individually Shielded

Cable Characteristics

Attenuation



Rise Time



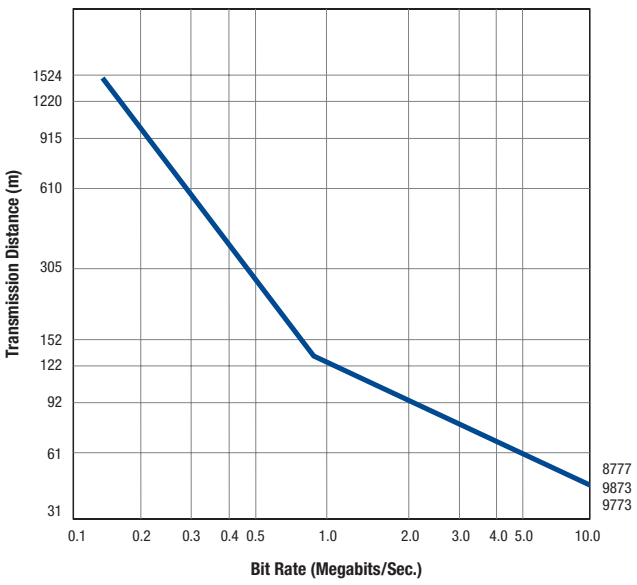
Recommended for audio, pulse, and radio frequency applications requiring superior circuit isolation.

Insulation resistance between shields:
100 megohms/M′ nom.

Capacitance between adjacent shields:
377 pf/m nom.

Working voltage between adjacent shields:
50 volt max.

Bit Rate

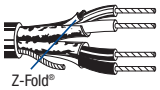
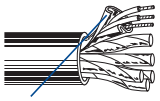
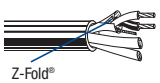


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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Individually Shielded

Audio, Control and Instrumentation Cables

De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
22 AWG • Stranded (7x30) 0.8 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 24 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
300V RMS 60°C	**8723**	NEC: CM CEC: CM	100	31	2.2	1.0	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.160	4.06	45	66%	CDR/CDR	35	115	Red & Black, Green & White
 Z-Fold®			500	152	10.6	4.8									CDR/SCR	62	203	
			U-500	U-152	9.9	4.5												
			500	152	19.0	8.6												
			U-1000	U-305	20.1	9.1												
			1.000	305	32.8	14.9												
			1640	500	37.9	17.2												
			U-2000	U-610	40.1	18.2												
			2000	610	65.7	29.8												
			3279	1000	95.2	43.2												
			5000	1524	200.4	90.9												
			10000	3049														
			For halogen-free version see 8723NH.															
2-Pair			Pairs cabled on common axis to reduce diameter															
22 AWG • Stranded (7x30) 0.8 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 22 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
300V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)			50	66%				see chart 3 (Tech Info Section)
 Z-Fold®	**8777**	3-Pair	100	31	4.6	2.1					0.273	6.93			CDR/CDR	30	98	
			250	76	9.9	4.5									CDR/SCR	55	180	
			U-500	U-152	20.9	9.5												
			500	152	20.1	9.1												
			U-1000	U-305	41.0	18.6												
			1000	305	44.1	20.0												
			1640	500	70.5	32.0												
			3279	1000	141.1	64.0												
			5000	1524	215.2	97.6												
			† 10000	3049	460.3	208.8												
			For halogen-free version see 8777NH.															
	8778	6-Pair	100	31	8.4	3.8					0.362	9.19			CDR/CDR	30	98	
			250	76	19.0	8.6									CDR/SCR	55	180	
			500	152	43.0	19.5												
			1000	305	83.1	37.7												
			For halogen-free version see 8778NH.															
	8774	9-Pair	100	31	11.5	5.2					0.417	10.59			CDR/CDR	30	98	
			250	76	29.5	13.4									CDR/SCR	55	180	
			500	152	57.5	26.1												
			1000	305	113.1	51.3												
22 AWG • Stranded (7x30) 0.8 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 22 AWG Tinned Copper Drain Wire																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS	**82777**	NEC: CMP CEC: CMP FT6	†† U-500	U-152	19.6	8.9	0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.237	6.02	46	62%	CDR/CDR	35	115	see chart 3 (Tech Info Section)
 Z-Fold®			U-1000	U-305	38.1	17.3									CDR/SCR	76	249	
			†† 1000	305	39.0	17.7												
3-Pair																		

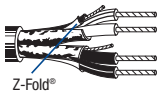
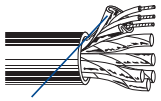
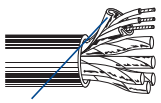
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 457 m (1500 ft.).
†† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel® from length show.

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Individually Shielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
20 AWG • Stranded (7x28) 1.0 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 22 AWG Tinned Copper Drain Wire																		
Semi-Rigid PVC Insulation • Overall Chrome PVC Jacket																		
300V 80°C UL AWM Style 2464	**9402**	NEC: CMG CEC: CMG FT4	U-500 1000	U-152 305	26.0 52.2	11.8 23.7	0.96 mm 20 AWG (7x28) TC	0.057	1.46	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.300	7.62	–	–	CDR/CDR CDR/SCR	55 95	180 312	Red & Black, Green & White
 Z-Fold® 2-Pair																		
20 AWG • Stranded (7x28) 1.0 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 22 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.96 mm 20 AWG (7x28) TC	0.066	1.68	Individual Beldfoil® + Drain Wire (22 AWG TC)			50	66%				see chart 3 (Tech Info Section)
 Z-Fold®																		
	9873	3-Pair	100 250 500 1000	31 76 152 305	6.6 14.6 32.6 58.0	3.0 6.6 14.8 26.3					0.341	8.66			CDR/CDR CDR/SCR	30 55	98 180	
	9874	6-Pair	100 250 500 1000	31 76 152 305	10.4 29.1 56.7 113.1	4.7 13.2 25.7 51.3					0.445	11.30			CDR/CDR CDR/SCR	30 55	98 180	
	9875	9-Pair	100 500 1000	31 152 305	17.9 97.0 194.9	8.1 44.0 88.4					0.555	14.10			CDR/CDR CDR/SCR	30 55	98 180	
18 AWG • Stranded (19x30) 1.2 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 20 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					1.24 mm 18 AWG (19x30) TC	0.082	2.08	Individual Beldfoil® + Drain Wire (20 AWG TC)			50	66%				see chart 3 (Tech Info Section)
 Z-Fold®																		
	9773	3-Pair	100 500 1000	31 152 305	10.8 52.5 107.1	4.9 23.8 48.6					0.404	10.26			CDR/CDR CDR/SCR	30 55	98 180	
	9774	6-Pair	100 500 1000	31 152 305	16.1 90.2 178.1	7.3 40.9 80.8					0.560	14.22			CDR/CDR CDR/SCR	30 55	98 180	
	9775	9-Pair	100 500 1000	31 152 305	25.8 123.0 241.2	11.7 55.8 109.4					0.655	16.64			CDR/CDR CDR/SCR	30 55	98 180	

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

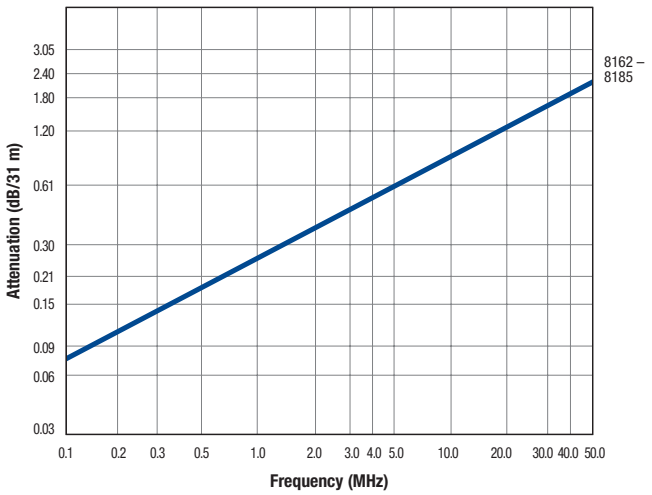
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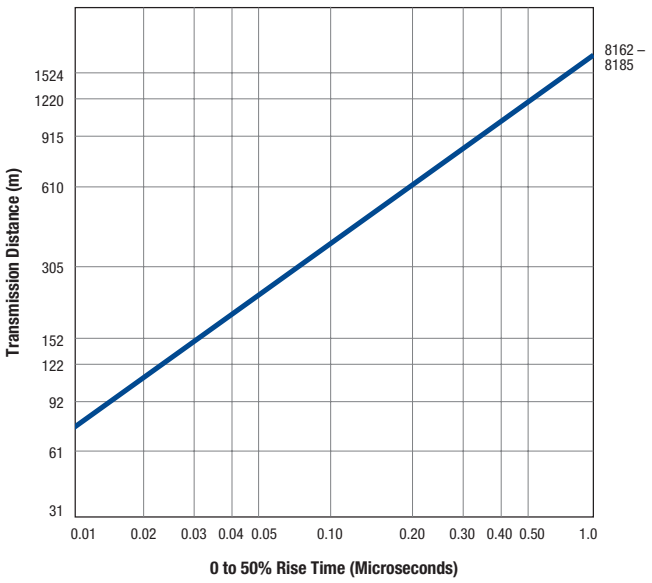
Individually Shielded Pairs with Overall Foil/Braid Shield

Cable Characteristics

Attenuation

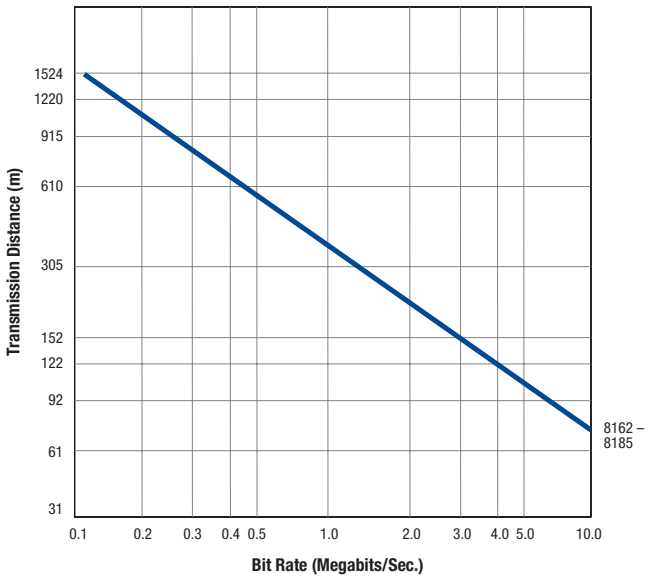


Rise Time



Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 Ohm and 10% to 90% rise time less than 5 nanoseconds.

Bit Rate



Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.

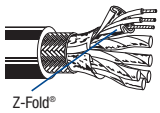
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Individually Shielded Pairs with Overall Foil/Braid Shield

Low-Capacitance Computer Cables for
EIA RS-232, EIA RS-422 and Digital Audio Applications

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm TC • Twisted Pair • Each Pair **Beldfoil®** Shielded • Overall **Beldfoil®** Shield + 65% TC Braid • 24 AWG TC DW																		
Datalene® Insulation • Chrome PVC Jacket																		
(60°C) VW-1 UL AWM Style 2493		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.061	1.55	Individual Beldfoil® + Overall Beldfoil® + Overall 65% TC Braid + Drain Wire (24 AWG TC)			100	78%				see chart 3 (Tech Info Section)
8162	2-Pair	100 500 1000	31 152 305	6.2 30.0 57.1	2.8 13.6 25.9					0.343	8.71			CDR/CDR CDR/SCR	13 22	41 72	
8163	3-Pair	100 500 1000	31 152 305	7.1 34.2 66.1	3.2 15.5 30.0					0.359	9.12			CDR/CDR CDR/SCR	13 22	41 72	
8164	4-Pair	100 500 1000	31 152 305	8.2 39.7 79.1	3.7 18.0 35.9					0.388	9.86			CDR/CDR CDR/SCR	13 22	41 72	
8165	5-Pair	100 500 1000	31 152 305	9.0 45.2 89.3	4.1 20.5 40.5					0.413	10.49			CDR/CDR CDR/SCR	13 22	41 72	
8166	6-Pair	100 500 1000	31 152 305	9.0 50.0 99.2	4.1 22.7 45.0					0.446	11.33			CDR/CDR CDR/SCR	13 22	41 72	
8167	7-Pair	500 1000	152 305	52.7 103.0	23.9 46.7					0.446	11.33			CDR/CDR CDR/SCR	13 22	41 72	
8168	8-Pair	100 500 1000	31 152 305	10.8 61.7 115.3	4.9 28.0 52.3					0.479	12.17			CDR/CDR CDR/SCR	13 22	41 72	
8170	10-Pair	100 500 1000	31 152 305	18.1 83.1 164.2	8.2 37.7 74.5					0.584	14.83			CDR/CDR CDR/SCR	13 22	41 72	
8175	15-Pair	100 500 1000	31 152 305	22.7 107.8 210.5	10.3 48.9 95.5					0.665	16.89			CDR/CDR CDR/SCR	13 22	41 72	
8178	18-Pair	100 500 1000	31 152 305	24.7 117.3 238.5	11.2 53.2 108.2					0.686	17.42			CDR/CDR CDR/SCR	13 22	41 72	
8185	25-Pair	100 500 1000	31 152 305	32.4 160.9 356.7	14.7 73.0 161.8					0.822	20.88			CDR/CDR CDR/SCR	13 22	41 72	



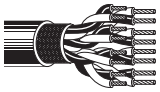
TC = Tinned Copper • DW = Drain Wire • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Overall Braid Shield

Computer Cables for EIA RS-232

Description	Part No.	No. of Pair	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
80°C • 24 - 18 AWG • Stranded Bare Copper Wire • Twisted Pair • >80 % Tinned Copper Braid													
PVC Insulation (Color Code: see chart 12, Tech Info Section) • **Grey Flame Retardant PVC Jacket**													
750V		IEC 332								Overall >80 % TC Braid			- Survey and data transmission - Check and drive systems - Measure and monitor systems - Interconnection of computer networks and outskirts interface
													
LiYC Y-TP													
	HMC0630	2	328	100	101.4	46.0	(8x0.193) BC	24	0.25		0.220	5.60	
	HMC0631	3	328	100	143.3	65.0	(8x0.193) BC	24	0.25		0.258	6.50	
	HMC0632	4	328	100	169.8	77.0	(8x0.193) BC	24	0.25		0.280	7.10	
	HMC0633	5	328	100	198.4	90.0	(8x0.193) BC	24	0.25		0.303	7.70	
	HMC0634	6	328	100	227.1	103.0	(8x0.193) BC	24	0.25		0.323	8.20	
	HMC0635	8	328	100	284.4	129.0	(8x0.193) BC	24	0.25		0.366	9.30	
	HMC0636	10	328	100	330.7	150.0	(8x0.193) BC	24	0.25		0.394	10.00	
	HMC0637	12	328	100	354.9	161.0	(8x0.193) BC	24	0.25		0.417	10.60	
	HMC0638	2	328	100	154.3	70.0	(16x0.193) BC	20	0.50		0.276	7.00	
	HMC0639	3	328	100	207.2	94.0	(16x0.193) BC	20	0.50		0.327	8.30	
	HMC0640	3	328	100	224.9	102.0	(22x0.193) BC	18	0.75		0.335	8.50	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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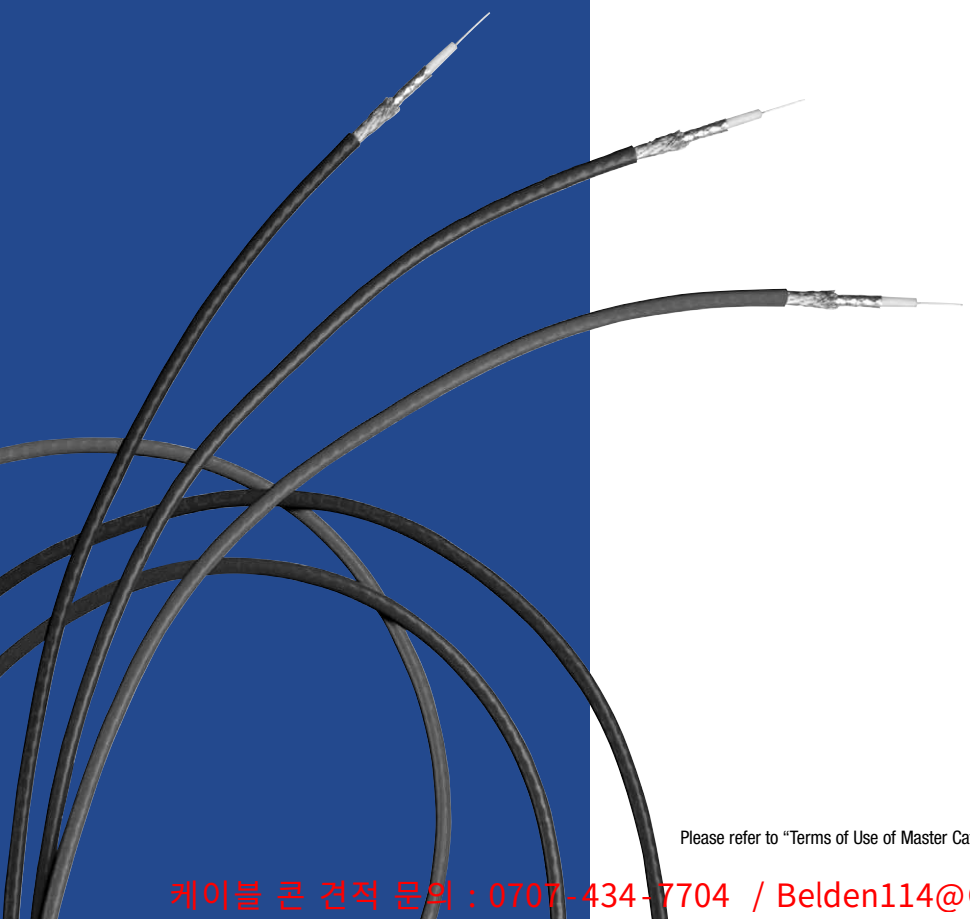
BELDEN
SENDING ALL THE RIGHT SIGNALS



6 MIL-C-17 Coaxes

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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

From Military to Civilian Use

Micro-coaxial cables are used in various consumer devices, military equipment and ultra-sound scanning equipment. There are different shielding configurations for different applications.

Although fiber optics, T1/E1, satellite and other high-tech methods are becoming the new standards, radio and especially television networks are connected with long distance coaxial cables. The history of these cables starts with the Second World War when the standard types were used by the military – when positive, reliable and trouble-free operation were essential to get users out of trouble.

Today – for different other purposes, Belden's cables offer performance second to none.

Special Features

- **Short Coaxial Cable**
  Connectivity for home video equipment, or in ham radio setups. Also commonly used for implementing computer networks; in particular ethernet.
- **Long Distance Coaxial Cable**
  Connect radio networks and television networks, though this has largely been superseded by other more high-tech methods (fiber optics, T1/E1, satellite). It is still common for carrying cable television signals.
- **Micro-Coaxial Cable**
  Used in a range of consumer devices, military equipment, and also in ultra-sound scanning equipment.

Key Applications

- Computer networks
- Radio
- Television
- Consumer devices
- Military equipment

Availability

Most of our MIL-C-17 coax cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a MIL-C-17 coax cable in this catalog section that meets your technical requirements contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

RG Designators

Standard types of coaxial cable were specified for military uses, in the form "RG-#" or "RG-#/U" (RG from radio guide, /U indicates multiple use). These references go back to World War II and were published in MIL-HDBK-216 (1962). These designations are now obsolete.

Currently the military standard is MIL-SPEC MIL-C-17. Numbers, such as M17/75-RG214, are given for military cables and manufacturer's catalog numbers for civilian applications. However, the RG-series designations were so common for generations that they are still used. Please be aware that since the handbook is withdrawn there is no standard to guarantee the electrical and physical characteristics of a cable described as "RG-# type".

The RG designators are mostly used to identify compatible connectors that fit the inner conductor, dielectric, and jacket dimensions of the old RG-series cables.

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50 Ohm Coax

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 Ft.	Nominal Attenuation dB/100 m
30 AWG • Stranded (7x0.10) 0.3 mm Silver-Plated Copperweld-Steel-Wire • 96% Silver-Plated Copper Braid																			
PTFE Insulation • Tinted Brown FEP Jacket																			
200°C RG-178 B/U	**MRG178**		3280	1000	19.8	9.0	0.3 mm 30 AWG (7x0.10) SPCSW	0.033	0.84	96% SPC Braid	0.071	1.80	50	69.5%	32.0	104.9 max.	10	4.9	16.1
																	50	11.6	38.0
																	100	16.0	52.5
																	200	23.0	75.4
																	400	33.0	108.2
																	700	45.0	147.6
																	900	50.0	164.0
																	1000	52.0	170.6
																	3000	94.0	308.3
PTFE Insulation • Tinted Brown PTFE Jacket																			
200°C RG-196 A/U	**MRG196**		3280	1000	19.0	8.6	0.3 mm 30 AWG (7x0.10) SPCSW	0.033	0.84	96% SPC Braid	0.071	1.80	50	69.5%	32.0	104.9 max.			see above
Also available with White PTFE Jacket.																			
26 AWG • Stranded (7x0.17) 0.51 mm Silver-Plated Copperweld-Steel-Wire • 95% Silver-Plated Copper Braid																			
PTFE Insulation • Tinted Brown FEP Jacket																			
200°C RG-316 /U	**MRG316**		3280	1000	35.3	16.0	0.51 mm 26 AWG (7x0.17) SPCSW	0.058	1.47	95% SPC Braid	0.098	2.49	50	69.5%	32.0	104.9 max.	10	3.5	11.5
																	50	7.5	24.6
																	100	11.0	36.1
																	200	15.0	49.2
																	400	21.0	68.9
																	700	28.0	91.8
																	900	32.0	105.0
																	1000	34.0	111.5
																	3000	58.0	190.2
PTFE Teflon® Insulation • Tinted Brown TFE Tape Jacket																			
200°C RG-188 A/U	**MRG188**		3280	1000	33.1	15.0	0.51 mm 26 AWG (7x0.17) SPCSW	0.058	1.47	96% SPC Braid	0.098	2.49	50	69.5%	32.0	104.9 max.			see above
Also available with White PTFE Jacket.																			
19 AWG • Solid 0.9 mm Silver-Plated Copperweld-Steel-Wire • 95% Silver-Plated Copper Braid																			
PTFE Insulation • Tinted Brown FEP Jacket																			
200°C RG-303 /U	**MRG303**	NEC: CL2P	3280	1000	103.6	47.0	0.94 mm 19 AWG Solid SPCSW	0.116	2.95	95% SPC Braid	0.170	4.31	50	70%	32.0	104.9 max.	10	1.1	3.6
																	50	2.7	8.9
																	100	3.9	12.8
																	200	5.8	19.0
																	400	8.6	28.2
																	700	12.0	39.4
																	900	13.5	44.3
																	1000	14.5	47.6
																	3000	27.0	88.6
PTFE Insulation • Tinted Brown FEP Jacket																			
200°C RG-142 B/U	**MRG142**	NEC: CMP CEC: CMP FT6	3280	1000	145.5	66.0	0.94 mm 19 AWG Solid SPCSW	0.116	2.95	96% SPC Double Braid	0.195	4.95	50	70%	29.3	96.1	10	1.3	4.1
																	50	3.0	9.8
																	100	4.4	14.4
																	200	6.3	20.7
																	400	9.3	30.5
																	700	12.5	41.0
																	900	14.5	47.6
																	1000	15.3	50.2
																	3000	29.3	96.1
																	8000	57.8	189.6
																	124000	85.4	280.1

SPCSW = Silver-Plated Copperweld-Steel-Wire • SPC = Silver-Plated Copper • DCR = DC resistance

Teflon® is a DuPont trademark.

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

50 Ohm Coax

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter	Nominal Core OD (Dielectric)		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/100 Ft.	dB/100 m
15 AWG • Solid 1.5 mm Silver-Plated Copperweld-Steel-Wire • 95 % Silver-Plated Copper Braid																			
PTFE Insulation • Tinted Brown FEP Jacket																			
200°C RG-304 /U	**MRG304**		3280	1000	282.2	128.0	1.50 mm 15 AWG Solid SPCSW	0.187	4.75	95 % SPC Braid	0.283	7.20	50	69.5 %	32.0	104.9 max.	10	0.7	2.2
																	50	1.8	5.9
																	100	2.7	8.9
																	200	4.2	13.8
																	400	6.4	21.0
																	700	9.0	29.5
																	900	10.5	34.4
																	1000	11.1	36.4
																	8000	40.0	131.2
12 AWG • Stranded (7x0.80) 2.4 mm Silver-Plated Copper • 96 % Silver-Plated Copper Braid																			
PTFE Insulation • Tinted Brown TGL Jacket																			
200°C RG-165 /U	**MRG165**		3280	1000	436.5	198.0	2.4 mm 12 AWG (7x0.80) SPC	0.283	7.20	96 % SPC Braid	0.413	10.50	50	69.5 %	29.3	96.1	10	0.5	1.8
																	50	1.4	4.6
																	100	2.1	6.9
																	200	3.1	10.2
																	400	4.7	15.4
																	700	6.4	21.0
																	900	7.4	24.3
																	1000	8.0	26.2
																	3000	13.7	44.9
12 AWG • Stranded (7x0.79) 2.3 mm Silver-Plated Copper • 95 % Silver-Plated Copper Double Braid																			
PTFE Insulation • Tinted Brown TGL Jacket																			
200°C RG-225 /U	**MRG225**		3280	1000	590.8	268.0	2.3 mm 12 AWG (7x0.79) SPC	0.283	7.20	95 % SPC Double Braid	0.425	10.80	50	69.5 %	32.3	106.0 max.	400	5.0	16.4

SPCSW = Silver-Plated Copperweld-Steel-Wire • SPC = Silver-Plated Copper • DCR = DC resistance

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75 Ohm Coax

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter	Nominal Core OD (Dielectric)		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100 m
30 AWG • Stranded (7x0.10) 0.3 mm Silver-Plated Copperweld-Steel-Wire • 95 % Silver-Plated Copper Braid																			
PTFE Insulation • Tinted Brown FEP Jacket																			
200°C RG-179 B/U	**MRG179**		3280	1000	35.3	16.0	0.3 mm 30 AWG (7x0.10) SPCSW	0.062	1.58	95% SPC Braid	0.100	2.54	75	69.5%	22.9	75.0 max.	400	21.0	68.8
																			
PTFE Insulation • Tinted Brown TFE Tape Jacket																			
200°C RG-187 A/U	**MRG187**		3280	1000	33.1	15.0	0.3 mm 30 AWG (7x0.10) SPCSW	0.063	1.60	95% SPC Braid	0.103	2.62	75	70%	22.9	75.0 max.			see above
																			
Also available with White PTFE Jacket.																			
22 AWG • Solid 0.64 mm Silver-Plated Copperweld-Steel-Wire • 95 % Silver-Plated Copper Braid																			
PTFE Insulation • Tinted Brown FEP Jacket																			
200°C RG-302 /U	**MRG302**		3280	1000	130.1	59.0	0.64 mm 22 AWG Solid SPCSW	0.148	3.75	95% SPC Braid	0.203	5.15	75	69.5%	32.0	104.9 max.	400	8.6	28.2
																			
PTFE Insulation • Tinted Brown TGL Jacket																			
200°C RG-140 /U	**MRG140**		3280	1000	154.3	70.0	0.64 mm 22 AWG Solid SPCSW	0.148	3.75	95% SPC Braid	0.228	5.80	75	69.5%	19.2	63.0	400	8.0	26.2
																			

SPCSW = Silver-Plated Copperweld-Steel-Wire • SPC = Silver-Plated Copper • DCR = DC resistance

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95 Ohm Coax

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter	Nominal Core OD (Dielectric)		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/100 Ft.	dB/100 m
30 AWG • Stranded (7x0.10) 0.3 mm Silver-Plated Copper-Steel-Wire • 91% Silver-Plated Copper Braid																			
PTFE Insulation • Tinted Brown FEP Jacket																			
200°C RG-180 B/U	**MRG180**		3280	1000	61.7	28.0	0.3 mm 30 AWG (7x0.10) SPCSW	0.102	2.60	91% SPC Braid	0.141	3.58	95	69.5%	17.4	57.0 max.	400	17.0	55.7
																			
PTFE Insulation • Tinted Brown PTFE Jacket																			
200°C RG-195 A/U	**MRG195**		3280	1000	59.5	27.0	0.3 mm 30 AWG (7x0.10) SPCSW	0.102	2.60	91% SPC Braid	0.141	3.58	95	69.5%	17.4	57.0 max.			see above
																			

SPCSW = Silver-Plated Copperweld-Steel-Wire • SPC = Silver-Plated Copper • DCR = DC resistance

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7 Shipboard and Offshore Cables

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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

All Aboard and Shipshape

Conditions at sea can get rough, so reliable communication is vital. Equipment must function well at all times and in all weathers. Belden cables meet the highest international marine standards – serving across the seven seas.

Belden's new Shipboard & Offshore cable line is comprised of Belden Brilliance®, DataTwist® and classic design cables designed to implement a wide range of shipboard audio, video, security, networking, control, instrument, communication and power applications. The Belden shipboard series also includes a selection of all-dielectric fiber optic cables.

Key Applications

- Navigational instruments
- A/V equipment
- Propulsion and control system
- Marine networking

Special Features

- Delivery of the highest quality A/V performance to operators and owners of private yachts, and passengers and crew on commercial ships.
- Fast, easy installation using standard connectors, with no special installation techniques or equipment required.
- Exclusive and unmatched Belden 10 Year Warranty.

Availability

To assist you in selecting the approval of the proper cable for your application, the approval logos are indicated for each applicable product in this section.

Most of our Shipboard & Offshore cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a Shipboard & Offshore cable in this catalog section that meets your technical requirements contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

Corresponding Literature

Product Bulletins
NP222: Shipboard Audio/Video ABS approved by ABS for Marine Installations

Meeting the Standards

Cables comply with industry standards IEEE 45 and applicable sections of IEC 60092-376 for low-smoke and zero-halogen. Because of the global nature of the marine industry, the cables are designed and manufactured to comply with European Union RoHS Directive (2002/95/EC, 27-Jan-2003) governing the Reduction of Hazardous Substances in electrical and electronic equipment.

All Belden Shipboard & Offshore cables are designed to match the type approval program from either:

- ABS (American Bureau of Shipping) is the most widely recognized Safety Standards organization serving the shipbuilding and marine structures industries. This offers third-party certification of products – known as "Type Approval Program". With ABS approval, no additional special approvals or insurance company exceptions are required for Belden cable system installations.

or

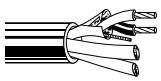
- GLC (Germanischer Lloyd Certification) offers an independent and professional service for the evaluation of management systems. The Germanischer Lloyd network is a very wide international service covering more than 135 countries.

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Audio, Control and Instrumentation Cables

Low-Smoke Zero-Halogen

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 22 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Black FRNC/LSNH Jacket																		
300V RMS 150°C	**9451SB**	NEC: CEC: CMG-LS FT4 Limited Smoke	1000	305	20.0	9.1	0.76 mm 22 AWG (7x30) TC	0.046	1.16	Overall Beldfoil® + Drain Wire (22 AWG TC)	0.160	4.06	45	66%	CDR/CDR CDR/SCR	35 67	115.0 220.0	Black, Red
 0.34 mm² 1-Pair																		
The jacket and shield are bonded so both can be removed with automatic stripping equipment. Drain wire is inside foil shield.																		
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 24 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Black FRNC/LSNH Jacket																		
300V RMS 105°C	**8723SB**	NEC: CEC: CMG-LS FT4 Limited Smoke	1000	305	26.0	11.8	0.76 mm 22 AWG (7x30) TC	0.046	1.16	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.196	4.98	45	66%	CDR/CDR CDR/SCR	35 67	115.0 220.0	Black & Red, Green & White
 2-Pair																		
Pairs cabled on common axis to reduce diameter.																		
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 22 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Black FRNC/LSNH Jacket																		
U300V RMS Non-Conduit	**8777SB**	NEC: CEC: CMG-LS FT4 Limited Smoke	† 500 U-1000 † 1000	152 305 305	19.6 38.1 39.0	8.9 17.3 17.7	0.76 mm 22 AWG (7x30) TC	0.050	1.26	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.273	6.93	50	66%	CDR/CDR CDR/SCR	30 55	98.0 180.0	Black & Red, Black & White, Black & Green
 3-Pair																		

TC = Tinned Copper • DCR = DC resistance
† Spools are one piece, but length may vary 0% to +20% from length shown.

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Broadband Coaxial Cables

CATV Cables, Series 6, Low-Smoke Zero-Halogen

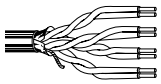
Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
Series 6 • 18 AWG • Solid 1.0 mm Copper-Covered Steel • **Duobond® II** • 60% Aluminum Braid																			
Gas-Injected Foam Polyethylene Insulation • Black FRNC/LSNH Jacket																			
75°C	**9116SB**	NEC: CEC: CMG-LS FT4 Limited Smoke	1000	305	31.1	14.1	1.02 mm 18 AWG Solid CCS 121.4 Ω/km* 91.9 Ω/km**	0.180	4.57	Duobond® II + 60% AL Braid 29.5 Ω/km*** 5.4 mm	0.274	6.96	75	83%	16.2	53.1	5 55 211 270 300 350 375 400 450 500 600 650 700 750 800 862 870 900 950 1000 1450 1800 2250 3000	0.54 1.45 2.64 2.97 3.13 3.39 3.52 3.65 3.88 4.09 4.51 4.72 4.92 5.11 5.27 5.47 5.49 5.60 5.79 5.99 7.80 8.60 9.82 11.31	1.77 4.76 8.66 9.74 10.27 11.12 11.55 11.97 12.73 13.42 14.80 15.49 16.14 16.76 17.29 17.95 18.01 18.37 19.00 19.65 25.60 28.20 32.20 37.10

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Networking Cables

DataTwist® 5e ScTP, Low-Smoke Zero-Halogen

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	ACR dB/100m	Min. RL dB
Cat 5e • 24 AWG • Twisted Pairs • Solid 0.5 mm BC • Overall **Beldfoil®** Shield • RJ-45 Compatible • 24 AWG TC Drain Wire • 100 Ohm ± 15%																			
Polypropylene Insulation (Color Code: see chart below) • **Black FRNC/LSNH Jacket**																			
105°C	**1300SB**	NEC:	1000	305	35.1	15.9	0.51 mm	0.042	1.07	Non-	0.260	6.60	1	2.0	62.3	60.3	60.8	60.3	20.0
		CEC:					24 AWG			Bonded-Pair			4	4.1	53.3	49.2	48.7	49.2	23.0
		CMG-LS FT4					Solid BC			Unshielded			8	5.8	48.8	43.0	42.7	43.0	24.5
		Limited Smoke								Overall			10	6.5	47.3	40.8	40.8	40.8	25.0
										Beldfoil®			16	8.2	44.3	36.1	36.7	36.1	25.0
										+ Drain Wire			20	9.3	42.8	33.5	34.7	33.5	25.0
										(24 AWG TC)			25	10.4	41.3	30.9	32.8	30.9	24.3
													31.25	11.7	39.9	28.2	30.9	28.2	23.6
													62.5	17.0	35.4	18.4	24.8	18.4	21.5
													100	22.0	32.3	10.3	20.8	10.3	20.1
4-Pair		Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																	



BC = Bare Copper • TC = Tinned Copper • ACR = Attenuation Crosstalk Ratio • DCR = DC resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • ScTP = Screened (Overall Foil) Twisted Pair(s)

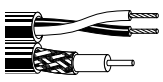
Color Code

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Security Composite Cables

CCTV plus Audio or Pan/Tilt/Zoom CCTV Control Applications
Low-Smoke Zero-Halogen

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color code	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD inch	Component OD mm
Composite • (1) Series 6 Coax • 2 Conductor (Audio) stranded																
FPE Coax Insulation • Polypropylene Pair Insulation • Black FRNC/LSNH Jacket																
75°C	**1306SB**	NEC:	500	152	37.0	16.8	Black & Red	0.514	13.06	1xAudio	1-Pair 18 AWG 1.2 mm (7x26) BC	Unshielded	Polypro-pylene	FRNC Black	0.239	6.07
		CEC:	1000	305	76.1	34.5										
		CMG-LS FT4								1xCCTV	Series 6 18 AWG 1.0 mm Solid BC	95% BC Braid	FPE	FRNC Black	0.275	6.99
		Limited Smoke														
		Coax sweep tested to 2.25 GHz and jacket sequentially marked. Third party verified to TIA/EIA-568-B.2, Category 5e														



BC = Bare Copper • DCR = DC resistance

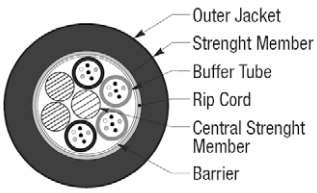
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

RiserLite® Loose Tube Indoor/Outdoor, Fiber Optic Cables#

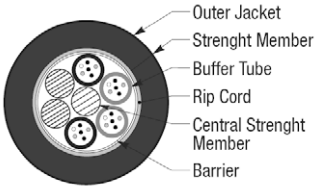
Single-Mode and Multimode-Riser-Rated, Low-Smoke Zero-Halogen

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
M9W • Loose Tube • Single-Mode																		
Synthetic Thixotropic Gel Construction • Overall Water-Blocking Tape • Black FRNC/LSNH Jacket																		
70°C	**M9W**830	6 (1x6)	Manufactured per Order	233.5	105.9	Ø 250 ± 15	0.07	1.90	Aramid Yarn	0.38	9.65	no	2700	20	–	145	193
	M9W831	12 (2x6)		233.5	105.9					0.38	9.65						
	M9W832	24 (4x6)		233.5	105.9					0.38	9.65						
	M9W834	48 (4x12)*		332.0	150.6					0.48	12.18						



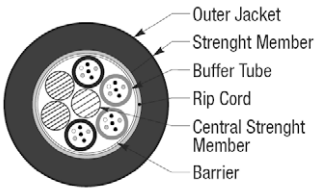
Construction: 6 fibers per tube, cabled with fillers. *12 fibers per tube

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
M9 • Loose Tube • Multimode 50/125 Grade 4																		
Synthetic Thixotropic Gel Construction • Overall Water-Blocking Tape • Black FRNC/LSNH Jacket																		
70°C	**M97**537	2 (2x1)**	Manufactured per Order	233.5	105.9	Ø 250 ± 15	0.07	1.90	Aramid Yarn	0.38	9.65	no	2700	20	–	145	193
	M9A830	6 (1x6)		233.5	105.9					0.38	9.65						
	M9A831	12 (2x6)		233.5	105.9					0.38	9.65						
	M9A832	24 (4x6)		233.5	105.9					0.48	12.18						
	M9A834	48 (4x12)*		332.0	150.6												



Construction: 6 fibers per tube, cabled with fillers. *12 fibers per tube, **1 fiber per tube

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
M9C • Loose Tube • Multimode 50/125 Grade 4																		
Synthetic Thixotropic Gel Construction • Overall Water-Blocking Tape • Black FRNC/LSNH Jacket																		
70°C	**M9C**830	6 (1x6)	Manufactured per Order	233.5	105.9	Ø 250 ± 15	0.07	1.90	Aramid Yarn	0.38	9.65	no	2700	20	–	145	193
	M9C831	12 (2x6)		233.5	105.9					0.38	9.65						
	M9C832	24 (4x6)		233.5	105.9					0.38	9.65						
	M9C834	48 (4x12)*		332.0	150.6					0.48	12.18						



Construction: 6 fibers per tube, cabled with fillers. *12 fibers per tube

Available in fiber counts 1 through 144, and in all glass types.

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

RiserLite® Loose Tube Indoor/Outdoor, Fiber Optic Cables#

Single-Mode and Multimode-Riser-Rated, Low-Smoke Zero-Halogen *(continued)*

Glass Types and Specifications	UOM	Single-Mode Fiber *	Multimode Grade 4	Multimode Grade 5
Operating Wavelength (Short) – nm	nm	1310	850	850
Operating Wavelength (Long) – nm	nm	1550	1300	1300
Min. OFL Bandwidth (@ Short Wavelength)	MHz-km	–	500	1500
Min. OFL Bandwidth (@ Long Wavelength)	MHz-km	–	500	500
Min. Laser Bandwidth (@ Short Wavelength)	MHz-km	–	510	2000
Min. Laser Bandwidth (@ Long Wavelength)	MHz-km	–	500	500
Max. Attenuation (@ Short Wavelength)	db/km	0.4	3.0	3.0
Max. Attenuation (@ Long Wavelength)	db/km	0.3	1.0	1.0
100 Mb/s Fast Ethernet Link Length @ WL = 850 nm	m	–	300	300
100 Mb/s Fast Ethernet Link Length @ WL = 1310 nm	m	5000	2000	2000
1 Gb/s Ethernet Link Length @ WL = 850 nm	m	–	600	1000**
1 Gb/s Ethernet Link Length @ WL = 1310 nm	m	5000	600	600
10 Gb/s Ethernet Link Length @ WL = 850 nm	m	–	82	300
10 Gb/s Ethernet Link Length @ WL = 1310 nm	m	10000	300	300

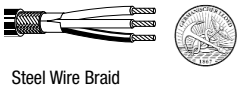
Available in fiber counts 1 through 144, and in all glass types.
* Low water peak single-mode suitable for CWDM use complies with ITU G.652.c/d.
** > 200 m for engineered links
OFL: Overfilled Launch
Laser bandwidth: effective modal bandwidth, determined by RML or DMD performance specifications
Other constructions and fiber-types available, up to 144 fibers.
Minimum order for each construction is 1000 meters. Bulk long reels, manufactured per order.
Operating temperature: -40°C to +70°C

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Control for Propulsion Systems

300/500V, 180°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 18 - 8 AWG • Stranded Tinned Copper • FEP Inner Sheath • Galvanized Steel Wire Braid													
PTFE Insulation • Overall Clear FEP Jacket													
	GL 7334077 HH									Unshielded			In industrial areas with high temperature and increased mechanical stress, e.g. - Shipbuilding industry - Motor and turbine engineering - Mechanical engineering
 Steel Wire Braid													
	SHO 0001	2	3280	1000	156.5	71.0	(24x0.20) TC	18	0.75		0.284	6.30	
	SHO 0002	3	3280	1000	194.0	88.0	(24x0.20) TC	18	0.75		0.260	6.60	
	SHO 0003	5	3280	1000	291.0	132.0	(24x0.20) TC	18	0.75		0.287	7.30	
	SHO 0004	2	3280	1000	191.8	87.0	(32x0.20) TC	17	1.00		0.256	6.50	
	SHO 0005	3	3280	1000	262.3	119.0	(32x0.20) TC	17	1.00		0.268	6.80	
	SHO 0006	4	3280	1000	286.6	130.0	(32x0.20) TC	17	1.00		0.287	7.30	
	SHO 0007	2	3280	1000	218.3	99.0	(30x0.25) TC	16	1.50		0.280	7.10	
	SHO 0008	3	3280	1000	269.0	122.0	(30x0.25) TC	16	1.50		0.291	7.40	
	SHO 0009	4	3280	1000	310.8	141.0	(30x0.25) TC	16	1.50		0.315	8.00	
	SHO 0010	5	3280	1000	379.2	172.0	(30x0.25) TC	16	1.50		0.339	8.60	
	SHO 0011	7	3280	1000	474.0	215.0	(30x0.25) TC	16	1.50		0.366	9.30	
	SHO 0012	12	3280	1000	868.6	394.0	(30x0.25) TC	16	1.50		0.465	11.80	
	SHO 0013	2	3280	1000	328.5	149.0	(50x0.25) TC	14	2.50		0.327	8.30	
	SHO 0014	3	3280	1000	432.1	196.0	(50x0.25) TC	14	2.50		0.343	8.70	
	SHO 0015	4	3280	1000	540.1	245.0	(50x0.25) TC	14	2.50		0.370	9.40	
	SHO 0016	5	3280	1000	665.8	302.0	(50x0.25) TC	14	2.50		0.406	10.30	
	SHO 0017	7	3280	1000	806.9	366.0	(50x0.25) TC	14	2.50		0.437	11.10	
	SHO 0018	2	3280	1000	487.2	221.0	(56x0.30) TC	12	4		0.394	10.00	
	SHO 0019	3	3280	1000	634.9	288.0	(56x0.30) TC	12	4		0.413	10.50	
	SHO 0020	4	3280	1000	787.0	357.0	(56x0.30) TC	12	4		0.449	11.40	
	SHO 0021	5	3280	1000	1018.5	462.0	(56x0.30) TC	12	4		0.488	12.40	
	SHO 0022	2	3280	1000	608.5	276.0	(84x0.30) TC	10	6		0.492	12.50	
	SHO 0023	3	3280	1000	840.0	381.0	(84x0.30) TC	10	6		0.520	13.20	
	SHO 0024	4	3280	1000	1036.2	470.0	(84x0.30) TC	10	6		0.563	14.30	
	SHO 0025	2	3280	1000	877.4	398.0	(80x0.40) TC	8	10		0.602	15.30	
	SHO 0026	3	3280	1000	1212.5	550.0	(80x0.40) TC	8	10		0.638	16.20	
	SHO 0027	4	3280	1000	1538.8	698.0	(80x0.40) TC	8	10		0.697	17.70	

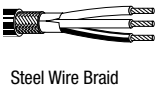
TC = Tinned Copper • DCR = DC resistance

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

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Control for Propulsion Systems

300/500V, 180°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
180°C • 18 - 8 AWG • Stranded Tinned Copper • Impregnated Glass Fiber Yarn Inner Sheath • Galvanized Steel Wire Braid													
PTFE Insulation													
		GL 6371373 HH								Unshielded			In industrial areas with high temperature and increased mechanical stress, e.g. - Shipbuilding industry - Motor and turbine engineering - Mechanical engineering
 Steel Wire Braid													
	SHO0028	2	3280	1000	108.0	49.0	(24x0.20) TC	18	0.75		0.193	4.90	
	SHO0029	3	3280	1000	152.1	69.0	(24x0.20) TC	18	0.75		0.201	5.10	
	SHO0030	5	3280	1000	207.2	94.0	(24x0.20) TC	18	0.75		0.240	6.10	
	SHO0031	2	3280	1000	134.5	61.0	(32x0.20) TC	17	1.00		0.205	5.20	
	SHO0032	3	3280	1000	180.8	82.0	(32x0.20) TC	17	1.00		0.217	5.50	
	SHO0033	4	3280	1000	207.2	94.0	(32x0.20) TC	17	1.00		0.236	6.00	
	SHO0034	2	3280	1000	185.2	84.0	(30x0.25) TC	16	1.50		0.224	5.70	
	SHO0035	3	3280	1000	220.5	100.0	(30x0.25) TC	16	1.50		0.240	6.10	
	SHO0036	4	3280	1000	260.1	118.0	(30x0.25) TC	16	1.50		0.260	6.60	
	SHO0037	5	3280	1000	313.1	142.0	(30x0.25) TC	16	1.50		0.287	7.30	
	SHO0038	7	3280	1000	379.2	172.0	(30x0.25) TC	16	1.50		0.315	8.00	
	SHO0039	12	3280	1000	612.9	278.0	(30x0.25) TC	16	1.50		0.413	10.50	
	SHO0040	2	3280	1000	231.5	105.0	(50x0.25) TC	14	2.50		0.268	6.80	
	SHO0041	3	3280	1000	308.6	140.0	(50x0.25) TC	14	2.50		0.283	7.20	
	SHO0042	4	3280	1000	383.6	174.0	(50x0.25) TC	14	2.50		0.315	8.00	
	SHO0043	5	3280	1000	471.8	214.0	(50x0.25) TC	14	2.50		0.343	8.70	
	SHO0044	7	3280	1000	575.4	261.0	(50x0.25) TC	14	2.50		0.374	9.50	
	SHO0045	2	3280	1000	348.3	158.0	(56x0.30) TC	12	4		0.327	8.30	
	SHO0046	3	3280	1000	454.1	206.0	(56x0.30) TC	12	4		0.354	9.00	
	SHO0047	4	3280	1000	562.2	255.0	(56x0.30) TC	12	4		0.390	9.90	
	SHO0048	5	3280	1000	729.7	331.0	(56x0.30) TC	12	4		0.425	10.80	
	SHO0049	2	3280	1000	436.5	198.0	(84x0.30) TC	10	6		0.382	9.70	
	SHO0050	3	3280	1000	599.7	272.0	(84x0.30) TC	10	6		0.409	10.40	
	SHO0051	4	3280	1000	740.7	336.0	(84x0.30) TC	10	6		0.461	11.70	
	SHO0052	2	3280	1000	632.7	287.0	(80x0.40) TC	8	10		0.520	13.20	
	SHO0053	3	3280	1000	868.6	394.0	(80x0.40) TC	8	10		0.555	14.10	
	SHO0054	4	3280	1000	1106.7	502.0	(80x0.40) TC	8	10		0.614	15.60	

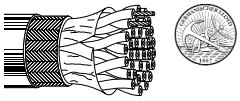
TC = Tinned Copper • DCR = DC resistance

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Instrument & Communication

250V, 90°C

Description	Part No.	No. of Pairs	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
90°C • 18 AWG • Stranded Bare Copper • Twisted Pair • Fleece Cloth • Overall Bare Copper Braid													
TPE-E-112 Insulation • Black TPE-O-107 Jacket													
GL 2067604 HH										Overall BC Braid			In industrial areas, e.g. - Shipbuilding industry - Mechanical engineering
													
	SHO 0055	1	3280	1000	167.5	76.0	(7x0.36) BC	18	0.75		0.252	6.40	
	SHO 0056	2	3280	1000	227.1	103.0	(7x0.36) BC	18	0.75		0.280	7.10	
	SHO 0057	4	3280	1000	401.2	182.0	(7x0.36) BC	18	0.75		0.402	10.20	
	SHO 0058	7	3280	1000	573.2	260.0	(7x0.36) BC	18	0.75		0.492	12.50	
	SHO 0059	10	3280	1000	745.2	338.0	(7x0.36) BC	18	0.75		0.563	14.30	
	SHO 0060	14	3280	1000	987.7	448.0	(7x0.36) BC	18	0.75		0.646	16.40	
	SHO 0061	19	3280	1000	1239.0	562.0	(7x0.36) BC	18	0.75		0.713	18.10	
	SHO 0062	24	3280	1000	1567.5	711.0	(7x0.36) BC	18	0.75		0.815	20.70	

BC = Bare Copper • DCR = DC resistance

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Power & Control

300/500V, 90°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
90°C • 16 - 2 AWG • Stranded Bare Copper • Fleece Cloth													
TPE-E-112 Insulation • Black TPE-O-107 Jacket													
	GL 3264106 HH									Unshielded			In industrial areas, e.g. - Shipbuilding industry - Mechanical engineering
SHO0063	2	3280	1000	158.7	72.0	(7x0.52) BC	16	1.50		0.256	6.50	
SHO0064	3	3280	1000	194.0	88.0	(7x0.52) BC	16	1.50		0.268	6.80	
SHO0065	4	3280	1000	235.9	107.0	(7x0.52) BC	16	1.50		0.291	7.40	
SHO0066	5	3280	1000	284.4	129.0	(7x0.52) BC	16	1.50		0.315	8.00	
SHO0067	7	3280	1000	361.6	164.0	(7x0.52) BC	16	1.50		0.339	8.60	
SHO0068	10	3280	1000	524.7	238.0	(7x0.52) BC	16	1.50		0.425	10.80	
SHO0069	14	3280	1000	690.0	313.0	(7x0.52) BC	16	1.50		0.476	12.10	
SHO0070	19	3280	1000	892.9	405.0	(7x0.52) BC	16	1.50		0.524	13.30	
SHO0071	24	3280	1000	1161.8	527.0	(7x0.52) BC	16	1.50		0.654	16.60	
SHO0072	2	3280	1000	233.7	106.0	(7x0.68) BC	14	2.50		0.303	7.70	
SHO0073	3	3280	1000	295.4	134.0	(7x0.68) BC	14	2.50		0.319	8.10	
SHO0074	4	3280	1000	423.3	192.0	(7x0.68) BC	14	2.50		0.346	8.80	
SHO0075	5	3280	1000	443.1	201.0	(7x0.68) BC	14	2.50		0.378	9.60	
SHO0076	2	3280	1000	324.1	147.0	(56x0.30) BC	12	4		0.343	8.70	
SHO0077	3	3280	1000	412.3	187.0	(56x0.30) BC	12	4		0.362	9.20	
SHO0078	4	3280	1000	535.7	243.0	(56x0.30) BC	12	4		0.409	10.40	
SHO0079	2	3280	1000	465.2	211.0	(84x0.30) BC	10	6		0.406	10.30	
SHO0080	3	3280	1000	597.4	271.0	(84x0.30) BC	10	6		0.429	10.90	
SHO0081	4	3280	1000	745.2	338.0	(84x0.30) BC	10	6		0.469	11.90	
SHO0082	2	3280	1000	826.7	375.0	(80x0.40) BC	8	10		0.555	14.10	
SHO0083	3	3280	1000	1073.6	487.0	(80x0.40) BC	8	10		0.594	15.10	
SHO0084	4	3280	1000	1239.0	562.0	(80x0.40) BC	8	10		0.654	16.60	
SHO0085	3	3280	1000	1560.9	708.0	(126x0.40) BC	6	16		0.697	17.70	
SHO0086	3	3280	1000	2376.6	1078.0	(196x0.40) BC	4	25		0.846	21.50	
SHO0087	3	3280	1000	3871.3	1756.0	(276x0.40) BC	2	35		0.996	25.30	

BC = Bare Copper • DCR = DC resistance

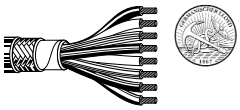
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Power & Control

300/500V, 90°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
90°C • 18 - 8 AWG • Stranded Bare Copper • Fleece Cloth • Overall Bare Copper Braid													
TPE-E-112 Insulation • Black TPE-O-107 Jacket													
	GL 2067504 HH									Overall BC Braid			In industrial areas, e.g. - Shipbuilding industry - Mechanical engineering
SHO0098	2	3280	1000	227.1	103.0	(7x0.52) BC	16	1.50		0.280	7.10		
SHO0099	3	3280	1000	266.8	121.0	(7x0.52) BC	16	1.50		0.295	7.50		
SHO0100	4	3280	1000	321.9	146.0	(7x0.52) BC	16	1.50		0.319	8.10		
SHO0101	5	3280	1000	348.3	158.0	(7x0.52) BC	16	1.50		0.346	8.80		
SHO0102	7	3280	1000	436.5	198.0	(7x0.52) BC	16	1.50		0.370	9.40		
SHO0103	10	3280	1000	637.1	289.0	(7x0.52) BC	16	1.50		0.461	11.70		
SHO0104	12	3280	1000	743.0	337.0	(7x0.52) BC	16	1.50		0.492	12.50		
SHO0105	14	3280	1000	815.7	370.0	(7x0.52) BC	16	1.50		0.508	12.90		
SHO0106	16	3280	1000	932.5	423.0	(7x0.52) BC	16	1.50		0.543	13.80		
SHO0107	19	3280	1000	1053.8	478.0	(7x0.52) BC	16	1.50		0.563	14.30		
SHO0108	24	3280	1000	1342.6	609.0	(7x0.52) BC	16	1.50		0.654	16.60		
SHO0109	2	3280	1000	326.3	148.0	(7x0.68) BC	14	2.50		0.323	8.20		
SHO0110	3	3280	1000	392.4	178.0	(7x0.68) BC	14	2.50		0.346	8.80		
SHO0111	4	3280	1000	476.2	216.0	(7x0.68) BC	14	2.50		0.378	9.60		
SHO0112	2	3280	1000	445.3	202.0	(56x0.30) BC	12	4		0.374	9.50		
SHO0113	3	3280	1000	533.5	242.0	(56x0.30) BC	12	4		0.394	10.00		
SHO0114	4	3280	1000	705.5	320.0	(56x0.30) BC	12	4		0.449	11.40		
SHO0115	2	3280	1000	615.1	279.0	(84x0.30) BC	10	6		0.437	11.10		
SHO0116	3	3280	1000	747.4	339.0	(84x0.30) BC	10	6		0.461	11.70		
SHO0117	4	3280	1000	948.0	430.0	(84x0.30) BC	10	6		0.508	12.90		
SHO0145	2	3280	1000	1104.5	501.0	(80x0.40) BC	8	10		0.594	15.10		
SHO0146	4	3280	1000	1505.7	683.0	(80x0.40) BC	8	10		0.701	17.80		



BC = Bare Copper • DCR = DC resistance

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Power & Control

300/500V, 90°C

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application

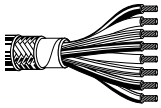
90°C • 18 - 8 AWG • Stranded Bare Copper • Fleece Cloth • Overall Bare Copper Braid

TPE-E-112 Insulation • Black TPE-O-107 Jacket

GL 2067504 HH

Overall BC Braid

In industrial areas, e.g.
- Shipbuilding industry
- Mechanical engineering



SHO0088	2	3280	1000	167.5	76.0	(7x0.36) BC	18	0.75		0.252	6.40	
SHO0089	3	3280	1000	187.4	85.0	(7x0.36) BC	18	0.75		0.264	6.70	
SHO0090	5	3280	1000	229.3	104.0	(7x0.36) BC	18	0.75		0.299	7.60	
SHO0091	7	3280	1000	280.0	127.0	(7x0.36) BC	18	0.75		0.319	8.10	
SHO0092	10	3280	1000	390.2	177.0	(7x0.36) BC	18	0.75		0.386	9.80	
SHO0093	12	3280	1000	440.9	200.0	(7x0.36) BC	18	0.75		0.413	10.50	
SHO0094	14	3280	1000	493.8	224.0	(7x0.36) BC	18	0.75		0.429	10.90	
SHO0095	16	3280	1000	546.7	248.0	(7x0.36) BC	18	0.75		0.449	11.40	
SHO0096	19	3280	1000	612.9	278.0	(7x0.36) BC	18	0.75		0.465	11.80	
SHO0097	24	3280	1000	749.6	340.0	(7x0.36) BC	18	0.75		0.524	13.30	

90°C • 6 AWG - 3/0 MCM • Stranded Bare Copper • Bare Copper Braid

TPE-E-112 Insulation • Black TPE-O-107 Jacket

Overall BC Braid

For internal wiring, e.g.
- Shipbuilding industry
- Mechanical engineering



SHO0119	1	3280	1000	593.0	269.0	(126x0.40) BC	6	16		0.398	10.10	
SHO0120	1	3280	1000	837.7	380.0	(196x0.40) BC	4	25		0.457	11.60	
SHO0121	1	3280	1000	1188.3	539.0	(276x0.40) BC	2	35		0.547	13.90	
SHO0122	1	3280	1000	1554.2	705.0	(392x0.40) BC	1	50		0.610	15.50	
SHO0123	1	3280	1000	2090.0	948.0	(356x0.50) BC	2/0	70		0.685	17.40	
SHO0124	1	3280	1000	2788.8	1265.0	(470x0.50) BC	3/0	95		0.819	20.80	

BC = Bare Copper • DCR = DC resistance

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BELDEN
SENDING ALL THE RIGHT SIGNALS



8 Cable Assemblies

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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

Brilliant in Every Way

Everyone in HDTV wants unmatched high life cycle performance, quality, longevity and peace of mind. Brilliance Assemblies are designed and optimized for HDTV. This requires the cabling to conform to the very highest of standards so it can deliver the very best in performance throughout its long lifetime. Quite simply, nothing beats a Belden cable – a proven fact, perfectly demonstrated by a product range that delivers top performance in every way and enhances the assurances offered by Brilliance Assemblies.

From precise installation with materials perfectly suited to their requirements to rigorous and proven testing methods supported by the Belden Installable Performance™ processes, users find that Brilliance Assemblies offer a peace of mind that is unmatched.

Key Applications

- High-resolution monitors
- Project imaging
- OB Vans
- Satellite head ends
- Video networks
- CCTV
- Ethernet professional audio

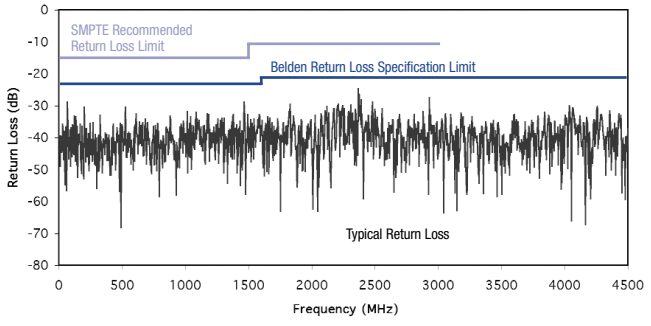
Special Features

- **1505F:** This cable is the focus product for video cords, a super high flex coax developed by Belden for digital patch panel cabling requirements. The 1505F has a soft matte PVC jacket which envelopes two tinned copper braids with a unique compacted stranded central conductor. This combines the flexibility borne from its stranded design to stability and RL performance that come right from its solid core. The 1505F is fully sweep tested to 4.5 GHz.

- **Low Return Loss (RL):** Use your head room! Belden delivers Return Loss (RL) performance that offers ample head room below the SMPTE 292M -15dB requirement. Belden products offer a best in class RL performance.

Bandwidth

Broadcasting needs are evolving at a rapid rate. Brilliance Assemblies offer the most significant scope for ensuring growth whatever the bandwidth. Belden products offer a best in class RL performance tested to 4.5 GHz throughout the entire installation and monitoring processes and even after packaging.



- **Exceptional Flexibility and Superior Cable Life:** Under the stress of repeated pulling, flexing, bending and crushing, cables can quickly display discrepancies that lead to degraded signal transmission – or even breakage. To combat these usage problems, Belden offers robust performance and enhanced flexibility in all Brilliance Assemblies. An abrasion-resistant jacket adds further protection and flexibility.

- **Crush Resistance:** Improves bending/flexing without pushing out the centre pin and/or damaging attached equipment – ideal for the more rugged installations.

  High resistance to crushing is provided by the foamed high-density polyethylene. Belden products have as much as twice the crush resistance of similar commercially available products. This means that the cables are less susceptible to diameter variations during their installation and use – resulting in minimal degradation of impedance and RL.

The Connectors

Brilliance Assemblies are put together using true 75 Ohm connectors that constantly perform to the very highest levels. Nominal 75 Ohm connectors can cause high BER (Bit Error Rate) and significantly reduce transmission distance.

Belden perfectly complements innovative products such as ADC's ProAx™ triax connectors and Neutrik's OpticalCon® next generation of HDTV camera connectors. The Belden line includes three one-piece connectors, a stripping tool and a compression tool that facilitates swift cable connection.

High quality BNC, RCA and F connectors, recommended for RGB patch cables, feature a brass and nickel construction with nickel-plated centre pins. In addition, they offer twin compression points that seal and hold the connector to the coaxial cable. By having two compression points, and a patent-pending viewing window on the connector, installation is made much simpler.

To meet the requirements of the market, Belden is able to deliver Brilliance Assemblies with other popular connector brands.

Availability

Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find your assembly in this catalog section that meets your technical requirements contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

ProAx™ is an ADC Krone trademark.
OpticalCon® is a Neutrik trademark.

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Coax Cable Assemblies

Video Cords

Part No.	Gender	Standard Lengths		Standard Unit Weight		Cond. AWG (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

Brilliance Assemblies • 1505F HDTV/SDI • BNC, RCA or F Connectors on both ends • Superflex 75 Ohm broadcast quality assembled colored cable with two strain relief boosts

Digital video and HDTV run at higher frequencies and make better use of composite video for even greater picture clarity. To accommodate the need for higher frequency, and the ability to run more demanding applications such as high resolution VGA on large screens, HDTV, Hi-Res CAD, animation, editing and special effects, Belden uses the extremely popular 1505F which has the optimum design to meet these new high-end requirements. The Belden line includes high performance professional connectors with excellent connector pull strength and minimal signal loss. Perfect for patching, rack wiring, OB vans, satellite headends, CCTV, etc.

Gas-injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White, Violet, Orange)

1.6	0.5	0.18	0.08	22 AWG	0.145	3.68	Double	0.242	6.15	75	80%	17.0	55.7	1	0.2	0.7
3.3	1.0	0.26	0.12	0.79 mm			95% TC							3.6	0.5	1.6
6.6	2.0	0.43	0.19	(7x29) BC			Braid							10	0.9	2.9
9.8	3.0	0.59	0.27	47.8 Ω/km*			7.8 Ω/km***							71.5	2.5	8.2
16.4	5.0	0.92	0.42	40.0 Ω/km**										135	3.5	11.5
19.7	6.0	1.09	0.49											270	5.1	16.7
49.2	15.0	2.58	1.17											360	6.0	19.7
65.6	20.0	3.40	1.54											540	7.4	24.3
98.4	30.0	5.06	2.29											720	8.7	28.5
147.6	45.0	7.54	3.42											750	8.9	29.2
														1000	10.5	34.4
														1500	13.3	43.6
														2250	16.9	55.4
														3000	20.3	66.6



Return loss at 5-3000 MHz: ≥ 15 dB

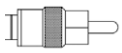
1505F BNC-BNC • for Analog & Digital Video, Patchcords, CCTV, Satellite Uplink/Downlink, Telecom



Example Part No. **CA00100**00C0D5
= 1505F BNC-BNC, 0.5 m, violet

CA00100...	Length	Violet	Black	Red	Green	Blue	Yellow	White	Orange
	0.5	00C0D5	01C0D5	02C0D5	03C0D5	04C0D5	05C0D5	06C0D5	07C0D5
	1.0	00C1	01C1	02C1	03C1	04C1	05C1	06C1	07C1
	2.0	00C2	01C2	02C2	03C2	04C2	05C2	06C2	07C2
	3.0	00C3	01C3	02C3	03C3	04C3	05C3	06C3	07C3
	5.0	00C5	01C5	02C5	03C5	04C5	05C5	06C5	07C5
	6.0	00C6	01C6	02C6	03C6	04C6	05C6	06C6	07C6
	15.0	00C15	01C15	02C15	03C15	04C15	05C15	06C15	07C15
	20.0	00C20	01C20	02C20	03C20	04C20	05C20	06C20	07C20
	30.0	00C30	01C30	02C30	03C30	04C30	05C30	06C30	07C30
	45.0	00C45	01C45	02C45	03C45	04C45	05C45	06C45	07C45

1505F RCA-RCA • for Audio or Video, Projectors, Digital Audio (S/PDIF) Subwoofer, Analog Audio and Composite Video



Example Part No. **CA00101**00C0D5
= 1505F RCA-RCA, 0.5 m, violet

CA00101...	Length	Violet	Black	Red	Green	Blue	Yellow	White	Orange
	0.5	00C0D5	01C0D5	02C0D5	03C0D5	04C0D5	05C0D5	06C0D5	07C0D5
	1.0	00C1	01C1	02C1	03C1	04C1	05C1	06C1	07C1
	2.0	00C2	01C2	02C2	03C2	04C2	05C2	06C2	07C2
	3.0	00C3	01C3	02C3	03C3	04C3	05C3	06C3	07C3
	5.0	00C5	01C5	02C5	03C5	04C5	05C5	06C5	07C5
	6.0	00C6	01C6	02C6	03C6	04C6	05C6	06C6	07C6
	15.0	00C15	01C15	02C15	03C15	04C15	05C15	06C15	07C15
	20.0	00C20	01C20	02C20	03C20	04C20	05C20	06C20	07C20
	30.0	00C30	01C30	02C30	03C30	04C30	05C30	06C30	07C30
	45.0	00C45	01C45	02C45	03C45	04C45	05C45	06C45	07C45

1505F F-F • for Cable TV, Satellite and Antenna. The Brilliance Assemblies RF Video Cords can be Specially Ordered.



Example Part No. **CA00102**00C0D5
= 1505F F-F, 0.5 m, violet

CA00102...	Length	Violet	Black	Red	Green	Blue	Yellow	White	Orange
	0.5	00C0D5	01C0D5	02C0D5	03C0D5	04C0D5	05C0D5	06C0D5	07C0D5
	1.0	00C1	01C1	02C1	03C1	04C1	05C1	06C1	07C1
	2.0	00C2	01C2	02C2	03C2	04C2	05C2	06C2	07C2
	3.0	00C3	01C3	02C3	03C3	04C3	05C3	06C3	07C3
	5.0	00C5	01C5	02C5	03C5	04C5	05C5	06C5	07C5
	6.0	00C6	01C6	02C6	03C6	04C6	05C6	06C6	07C6
	15.0	00C15	01C15	02C15	03C15	04C15	05C15	06C15	07C15
	20.0	00C20	01C20	02C20	03C20	04C20	05C20	06C20	07C20
	30.0	00C30	01C30	02C30	03C30	04C30	05C30	06C30	07C30
	45.0	00C45	01C45	02C45	03C45	04C45	05C45	06C45	07C45

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • M = Male • F = Female • TC = Tinned Copper • BC = Bare Copper

To comfortably support today's broadcast technology, Brilliance Assemblies can be specially ordered:

1. for mobile television broadcast trucks with 179DT BNC-BNC (CA00103)
2. as an economical version with 1855A BNC-BNC (CA00106)
3. for long runs with 1505A BNC-BNC (CA00109)
4. for longer runs with 1694A BNC-BNC (CA00112)

All these Brilliance Assemblies are available in 10 colors (1505A with 8 colors).
If you require a specific connector, you can choose from the following brands: ADC, Neutrik, Damar+Hagen, Telegaertner.

Recommened Color Schema:	
Red + Black	Analog audio
RGB (Red, Green, Blue)	Component video
Orange	Digital audio
Yellow	Composite video
Violet	Digital video/HDTV

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Coax Cable Assemblies

RGB Patch Cables

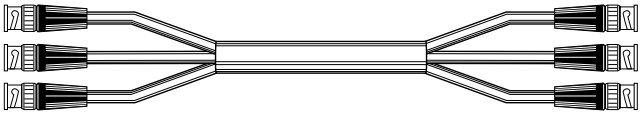
Part No.	Gender	Standard Lengths		Standard Unit Weight		Cond. AWG (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

Brilliance Assemblies • 1277R (3-Coax) and 1279R (5-Coax) HDTV/SDI • 3 or 5 BNC Connectors on both ends • Flexible 75 Ohm broadcast quality assembled RGB cable with strain relief boots

RGB cables are used for component video formatted applications that segment the video signal into Red, Green and Blue elements, identified through use of corresponding cable jacket colors (RGB cables). Synchronization (Sync) and Vertical Hold (Hold) signals can be embedded within one of the elemental video components or they can be transmitted separately utilizing the 4th and 5th coaxes. When present, the 4th coax has a yellow jacket; the 5th coax has a black jacket.The outer jacket of the Belden line is stripped back 150 mm from both ends. The unique design of these cables also makes them ideal for multiple runs of composite video signals such as SDI or HDTV (video snake cable). The Belden lines are ideal for high-resolution monitor and projection imaging in corporate boardrooms, command and control centers, multi-purpose auditoriums, home theaters, performance venues, etc.

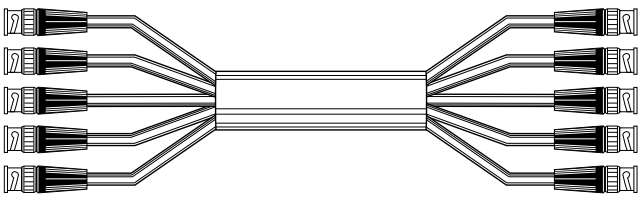
Foam HDPE Insulation • Matte Black PVC Jacket

CA00150 01C1	BNC-BNC	3.3	1.0	0.24	25 AWG	0.092	2.33	Duofoil®	0.320	8.13	75	80%	17.0	55.7	5	1.2	3.8
CA00150 01C2		6.6	2.0		0.45 mm	Coax OD:		95% TC	0.403	10.24					50	3.7	12.1
CA00150 01C3		9.8	3.0		(Solid) BC	0.114	2.90	Braid							100	4.9	16.1
CA00150 01C6		19.7	6.0												400	9.5	31.2
CA00150 01C15		49.2	15.0												750	13.4	44.0
CA00150 01C20		65.6	20.0												900	15.0	49.2
CA00150 01C30		98.4	30.0												1000	15.8	51.8
CA00150 01C45		147.6	45.0												3000	31.2	102.4



Foam HDPE Insulation • Matte Black PVC Jacket

CA00151 01C1	BNC-BNC	3.3	1.0	25 AWG	0.092	2.33	Duofoil®	0.320	8.13	75	80%	17.0	55.7	5	1.2	3.8
CA00151 01C2		6.6	2.0	0.45 mm	Coax OD:		95% TC	0.403	10.24					50	3.7	12.1
CA00151 01C3		9.8	3.0	(Solid) BC	0.114	2.90	Braid							100	4.9	16.1
CA00151 01C6		19.7	6.0											400	9.5	31.2
CA00151 01C15		49.2	15.0											750	13.4	44.0
CA00151 01C20		65.6	20.0											900	15.0	49.2
CA00151 01C30		98.4	30.0											1000	15.8	51.8
CA00151 01C45		147.6	45.0											3000	31.2	102.4



* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • M = Male • F = Female • TC = Tinned Copper • BC = Bare Copper

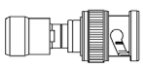
To comfortably support today's broadcast technology, Brilliance Assemblies can be specially ordered:

	3-Coax BNC-BNC		5-Coax BNC-BNC	
1. same but Banana Peel® design	1281S3	(CA00152)	1281S5	(CA00153)
2. as an economical version with 1855A	7787A	(CA00154)	7789A	(CA00155)
3. for long runs with 1505A	7794A	(CA00156)	7796A	(CA00157)
4. for longer runs with 1694A	7710A	(CA00158)	7712A	(CA00159)

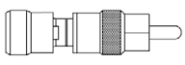
If you require a specific connector you can choose from the following brands: ADC, Neutrik, Damar+Hagen, Telegaertner.

Additional Accessories for 1277R-1279R and 1281S3-S5 One-Piece Connector

1B25A • 75-Ohm BNC (male)



1R25A • 75-Ohm RCA



Stripping and Compression Tool

HCST • Cable Prep Tool



HCCT • works with BNC, RCA and F Connectors



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Coax Cable Assemblies

Triax Cables

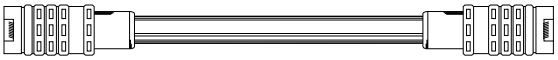
Part No.	Gender	Standard Lengths		Standard Unit Weight		Cond. AWG (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
		ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

Brilliance Assemblies • 7783AF Triax 8 HDTV/SDI • ProAx™ Triax Camera Connectors: Global Format on both ends • Flexible 75 Ohm broadcast quality assembled Triax cable

The Belden triax lines are assembled with ADC's ProAx™ triaxial camera connectors. This combination will undoubtedly change your views of triaxial assemblies. ADC's patented ProAx™ triaxial camera connector has a two-piece center conductor offering several options. Key benefits include the ability to swap gender parts from male to female and vice versa in only a few seconds and the way mates can be swapped equally quickly with Kings, Lemo, Fischer and Damar+Hagen parts. The Belden lines are ideal for field use, sporting/live events, mobile trucks, stadiums, fixed wiring, TV/Studio production.

Foam Insulation • Red PVC Jacket

CA00200 02C50	Male - Female	164	50	13.56	6.15	0.99 mm	0.178	4.52	90% SPC	0.331	8.40	75	83%	16.5	54.0	1	0.2	0.6
CA00200 02C100		328	100	26.01	11.80	20 AWG			Braid							10	0.7	2.2
CA00200 02C150		492	150	38.47	17.45	(19x0.36) SPC			+ 80% BC							20	1.0	3.2
CA00200 02C200		656	200	50.93	23.10	32.0 Ω/km*			Braid							40	1.4	4.6
CA00200 02C250		820	250	63.38	28.75	22.0 Ω/km**			10.0 Ω/km***							50	1.6	5.1
									6.5 mm							60	1.7	5.6
																100	2.3	7.5
																300	4.2	13.8



male ProAx™ triax camera connectors: global format female

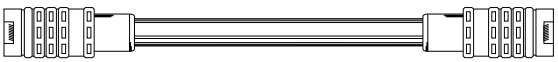
Return loss at 1-100 MHz: ≥ 26 dB
100-300 MHz: ≥ 23 dB

Screening attenuation at 30-1000 MHz: ≥ 75 dB
Brilliance® Broadcast Assembly line can be specially ordered with mates for Kings, Lemo Redel F, Fischer SE & KE and Damar+Hagen.

Brilliance Assemblies • 7784AF Triax 11 HDTV/SDI • ProAx™ Triax Camera Connectors: Global Format on both ends • Flexible 75 Ohm broadcast quality assembled Triax cable

Foam Insulation • Red PVC Jacket

CA00201 02C50	Male - Female	164	50	20.17	9.15	1.4 mm	0.256	6.50	90% SPC	0.433	11.00	75	82%	16.5	54.0	1	0.2	0.5
CA00201 02C100		328	100	39.24	17.80	16 AWG			Braid							10	0.5	1.6
CA00201 02C150		492	150	58.31	26.45	(19x0.28) SPC			+ 80% BC							20	0.7	2.3
CA00201 02C200		656	200	77.38	35.10	26.0 Ω/km*			Braid							40	1.0	3.3
CA00201 02C500		1640	500	191.80	87.00	18.0 Ω/km**			8.0 Ω/km***							50	1.1	3.7
									8.5 mm							60	1.3	4.1
																100	1.6	5.4
																300	3.1	10.3



male ProAx™ triax camera connectors: global format female

Return loss at 1-100 MHz: ≥ 26 dB
100-300 MHz: ≥ 23 dB

Screening attenuation at 30-1000 MHz: ≥ 75 dB
Brilliance® Broadcast Assembly line can be specially ordered with mates for Kings, Lemo Redel F, Fischer SE & KE and Damar+Hagen.

Brilliance Assemblies • 7785A Triax 14 HDTV/SDI • ProAx™ Triax Camera Connectors: Global Format on both ends • Flexible 75 Ohm broadcast quality assembled Triax cable

Foam Insulation • Red PVC Jacket

CA00202 02C50	Male - Female	164	50	30.31	13.75	2.21 mm	0.382	9.70	90% SPC	0.551	14.00	75	82%	16.5	54.0	1	0.1	0.4
CA00202 02C100		328	100	59.52	27.00	12 AWG			Braid							10	0.3	1.1
CA00202 02C150		492	150	88.74	40.25	(7x0.75) SPC			+ 80% BC							20	0.5	1.6
CA00202 02C200		656	200	117.95	53.50	14.0 Ω/km*			Braid							40	0.7	2.3
CA00202 02C500		1640	500	293.21	133.00	10.0 Ω/km**			4.0 Ω/km***							50	0.8	2.6
CA00202 02C1000		3280	1000	585.32	265.50				12.7 mm							60	0.9	2.8
																100	1.2	3.8
																300	2.3	7.7



male ProAx™ triax camera connectors: global format female

Return loss at 5-850 MHz: ≥ 21 dB

Screening attenuation at 30-1000 MHz: ≥ 75 dB
Brilliance® Broadcast Assembly line can be specially ordered with mates for Kings, Lemo Redel F, Fischer SE & KE and Damar+Hagen

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • M = Male • F = Female • BC = Bare Copper • SPC = Silver-Plated Copper
ProAx™ is an ADC Krone trademark.

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Twisted Pair and Fiber Optic Cable Assemblies

CatSnake™

Part No.	Connector	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			ACR dB/100m	Min. RL dB
		ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m		

Brilliance Assemblies • 1305A • Mobile Cat 5e • Neutrik EtherCon® Connectors • CatSnake™ is a new design from Belden and assemblied with standard RJ45 connectors

The round PVC jacket provides durability and the cable ends are assembled with Neutrik's EtherCon®. This design was developed to provide a comprehensive solution for data transfer in harsh and demanding applications. CatSnake™ assembly is particularly suitable for Ethernet networking in commercial audio, concert sound reinforcement, stage production, DMX lighting and industrial internet access environments.

4 Bonded-pairs UTP • Black PVC Jacket

CA00250 01C50	EtherCon®	164	50	11.02	5.0	0.51 mm	0.037	0.95	Bonded-Pair	0.295	7.49	1	2.0	65.3	63.3	60.8	63.3	20.0
CA00250 01C100		328	100	19.84	9.0	24 AWG			Unshielded			4	4.0	56.3	52.3	48.7	52.3	23.0
CA00250 01C500		1640	500	90.39	41.0	(7x32) TC						10	6.4	50.3	43.9	40.8	43.9	25.0
												16	8.1	47.3	39.1	36.7	39.1	25.0
												20	9.2	45.8	35.2	34.7	35.2	25.0
												31.25	11.2	42.9	31.3	30.9	31.3	23.6
												62.5	16.8	38.4	21.6	24.8	21.6	21.9
												100	21.7	35.3	17.1	20.8	17.1	20.1
												155	27.7	32.5	4.7	16.9	4.7	19.0
												200	32.0	30.8	3.0	14.7	3.0	19.0
												310	41.3	27.9	> 0	10.9	> 0	18.0
												350	44.3	27.2	> 0	9.9	> 0	17.0



Brilliance® Broadcast Assembly line can be specially ordered as CA00251 with only RJ-45.

Fiber Optic Assembly For HDTV Cameras (SMPTE 311)

Part No.	Connector	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal OD		Compo-nent	Description	Shielding Material & Nom. DCR	Component OD		Nominal Attenuation	
		ft.	m	lbs.	kg		inch	mm				inch	mm	dB/ 100 ft.	dB/ 100 m

Brilliance Assemblies • 7804C • SMPTE 311M HDTV cable • Single-Mode Fiber with copper conductors • Lemo 3K.93C connectors

With the rise of high-definition video applications, such as 1080i and 720p, the bandwidth demands on camera cables has grown significantly. To meet these new requirements, Belden now offers (new generation) 7804C, which consists of dual single-mode fiber optic cables and copper components for power and data, and a special connector made by Lemo.

Composite Cable: 2 Power Conductors • SM Fiber (24 AWG and 16 AWG) • Stranded TC Conductors • Black Belflex® Jacket

CA00270 01C100	2x3K.93C.TLMC	328	100	64.82	29.40	–	0.362	9.2	2xFiber	(2) Breakout Fibers SM/125µ/900µ core/clad/buffer	38 AWG TC Braid 95% Shield Coverage 2.8 Ω/m* 9.2 Ω/km	0.079	2.00	0.14	0.45
CA00270 01C500		1640	500	318.79	144.60										
CA00270 01C1.000		3280	1000	636.25	288.60										
							0.362	9.2		(2) Conductors 24 AWG (7x32) TC 0.024″ 23.3 Ω/m* 76.4 Ω/km	38 AWG TC Braid 95% Shield Coverage 2.8 Ω/m* 9.2 Ω/km	0.050	1.27	0.14	0.45
							0.362	9.2		(2) Conductors 16 AWG (65x34) TC 0.037″ 4.3 Ω/m* 14.1 Ω/km	38 AWG TC Braid 95% Shield Coverage 2.8 Ω/m* 9.2 Ω/km	0.093	2.36	0.14	0.45



Brilliance® Broadcast Assembly line can be specially ordered as CA00271 with: Neutrik's OpticalCon® • Suitable for indoor studio and camera applications acc. IEC 60664-1 (Pollution degree 1, over voltage category 1), not compatible to SMPTE standard.

* DC loop resistance • DCR = DC resistance • TC = Tinned Copper

EtherCon® and OpticalCon® are Neutrik trademarks.

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BELDEN
SENDING ALL THE RIGHT SIGNALS

BROADBAND



Broadband Coax Cables

9

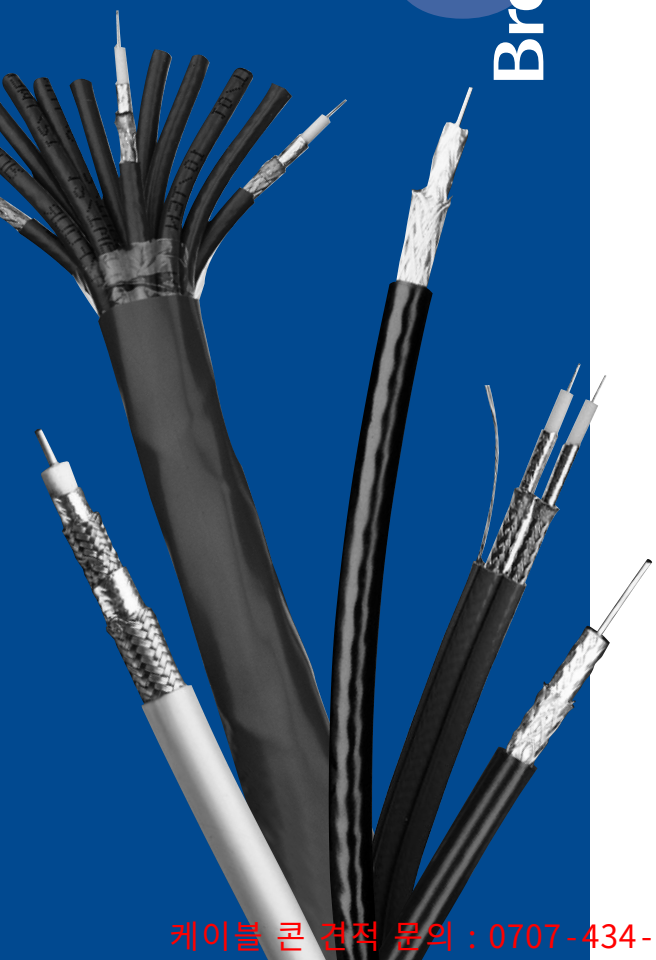


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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

BROADBAND

Bringing People Closer

Today, wireless communication is part of everyone's life as we increasingly communicate with each other and source information through networks such as cellular phones, TV broadcasting and WLAN. The strength of Belden is to anticipate market demands, adapt, invent and innovate to meet changing needs for increased bandwidth and easy installation.

Belden offers one of the most comprehensive, economical and modern ranges of reliable 75 Ohm and 50 Ohm coaxial cable products on the market. The distribution and drop coaxes feature Belden's innovative, high-performance Duobond Plus® shielding and/or Belden's Duobond® II shield.

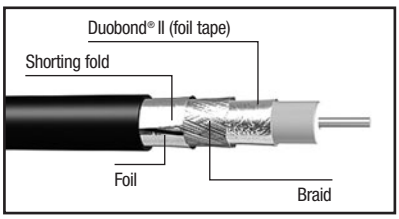
Key Applications

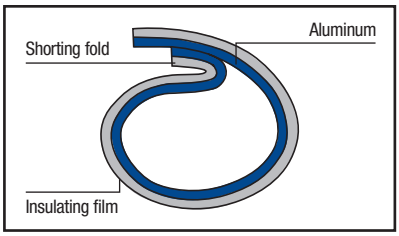
- Cable TV
- Satellite dish technology
- Broadband applications

Special Features

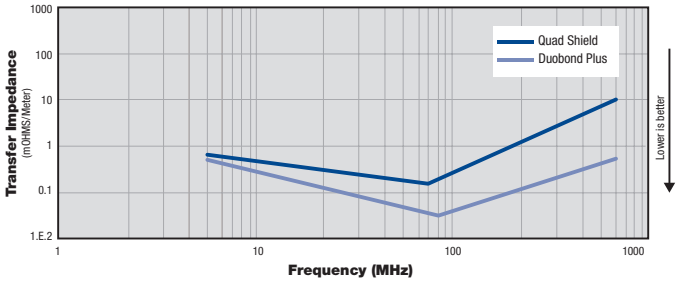
75 Ohm CATV

- **Duobond Plus®**
  Belden's Duobond Plus® has a three-shield construction consisting of a Duobond® II (foil tape) surrounded by a braid and an outer layer of foil with a unique shorting fold which creates the effect of a solid metal conduit. This combination offers superior high frequency shielding when compared with traditional Quad shields.





Duobond Plus® is faster to install, because the outer tape shield is bonded to the jacket and can be stripped easily in one step. Furthermore, this construction gives Duobond Plus® a smaller bending radius, greater flexibility and, compared to quad shielded coax, a 10 percent weight reduction.



Lower transfer impedance means better shielding performance.

Belden offers two different versions of Duobond Plus®:
- Better-Than-Quad (BTQ) with 50% shielding coverage.
- Better-Than-Triple (BTT) with 40% shielding coverage.

Better performance and easier installation are reasons why Duobond Plus® coax cables are so popular and widely used.

- **Duobond® II**
  The foil/braid type combines Duobond with an outer braid. This is added to provide greater protection against interference and to increase overall tensile strength. The combination foil/braid shield combines the advantages of 100% foil coverage with the strength and low DC resistance of the braid.

- **FRNC/LSNH**
  Belden has developed low-smoke (LS), fire-retardant (FR) and zero-halogen (ZH) cables. These three properties are annotated as FRNC/LSNH (also known as RNC/LSZH).

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Introduction

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What is Class A?

The demands for screening attenuation and transfer impedance of the CATV cables are defined by European Standard EN50117-2:

1. Drop, indoor 5 MHz to 1000 MHz
2. Drop, outdoor 5 MHz to 1000 MHz
3. Trunk and Distribution 5 MHz to 1000 MHz
4. Drop, indoor 5 MHz to 3000 MHz
5. Drop, outdoor 5 MHz to 3000 MHz

EN-50117-1 is the version for coax cables. Part 1 is the generic specification. This part requires that the test method of transfer impedance and the screening attenuation accords to EN 50289-1-6.

EN 50117 Screening Classes

Class A++
≥ 105 dB from 30 MHz to 1000 MHz (screening attenuation)
≥ 95 dB from 1000 MHz to 2000 MHz (screening attenuation)
≥ 85 dB from 2000 MHz to 3000 MHz (screening attenuation)
≤ 0.9 mOhm/m from 5 to 30 MHz (transfer impedance)

Class A+
≥ 95 dB from 30 MHz to 1000 MHz (screening attenuation)
≥ 85 dB from 1000 MHz to 2000 MHz (screening attenuation)
≥ 75 dB from 2000 MHz to 3000 MHz (screening attenuation)
≤ 2.5 mOhm/m from 5 to 30 MHz (transfer impedance)

Class A
≥ 85 dB from 30 MHz to 1000 MHz (screening attenuation)
≥ 75 dB from 1000 MHz to 2000 MHz (screening attenuation)
≥ 65 dB from 2000 MHz to 3000 MHz (screening attenuation)
≤ 5 mOhm/m from 5 to 30 MHz (transfer impedance)

Class B
≥ 75 dB from 30 MHz to 1000 MHz (screening attenuation)
> 65 dB from 1000 MHz to 2000 MHz (screening attenuation)
> 55 dB from 2000 MHz to 3000 MHz (screening attenuation)
≤ 15 mOhm/m from 5 to 30 MHz (transfer impedance)

Class C
≥ 75 dB from 30 MHz to 1000 MHz (screening attenuation)
> 65 dB from 1000 MHz to 2000 MHz (screening attenuation)
> 55 dB from 2000 MHz to 3000 MHz (screening attenuation)
≤ 50 mOhm/m from 5 to 30 MHz (transfer impedance)

New Technologies Need Better Cables

- From analog to digital.
- More protection from electromagnetic interference for multimedia applications (telephony, internet or video-on-demand).
- Interactive services like Two-Way-TV (TWTV) need return-path capable cables, according to class A.
- Backwards: 5 - 30 (65) MHz - Forward: 47 (80) - 862 MHz.

Euroclass – European Union to Harmonize Test Standards and Transform All the National Regulations

The Construction Products Directive (CPD) was adopted in 1989. In 2002, the European Union published a series of harmonised test standards, called: Euroclass according to a classification in decreasing quality order from A to F:

Euroclass (draft: 2003)
A - no inflammable material
B* - Low flame height and heat production
C* - Moderate flame height and heat production
D* - Heat production comparable to that of burning construction wood
E - Moderate flame height
F - No fire performance requirement

** B = EN50399-2-2, C and D = EN50399-2-1*

CENELEC is currently working on a final version to cover the next years.

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Introduction

BROADBAND

50 Ohm Wireless

Belden's 50 Ohm RF cables provide best-in-class transmission performance and superior EMI/RFI shielding for greater noise reduction. They are ruggedly constructed and designed to be flexible for easy installation and routing.

Features include:

- **Lowest Loss**
  Belden's 50 Ohm RF cables provide the lowest loss of any land mobile radio-type coaxial cables on the market (from 5% to 10% lower, depending on the design and frequency). The result is better signal transmission at the same distance, or longer transmission distance with less attenuation. All cables are 100% sweep tested to 6 GHz to assure performance in future high frequency applications.

- **Low VSWR**
  VSWR is guaranteed to be 1.25:1 maximum over all frequencies (RL = -19 dB).

- **High Velocity of Propagation**
  The foamed high-density polyethylene insulation provides the highest velocity of any land mobile radio-type flexible coaxial product on the market. The high-density material properties provide superior crush resistance to minimise impedance variations and return loss, ensuring high performance both before and after installation. (Part number 7805 utilizes a solid PE dielectric).

- **Excellent Phase Stability**
  Belden's 50 Ohm RF cables exhibit excellent phase stability over both temperature changes and flexing, resulting in improved signal integrity and reliability.

- **Superior RF Shielding**
  The combination foil/braid shield provides in excess of 100 dB of effective EMI/RFI shielding.

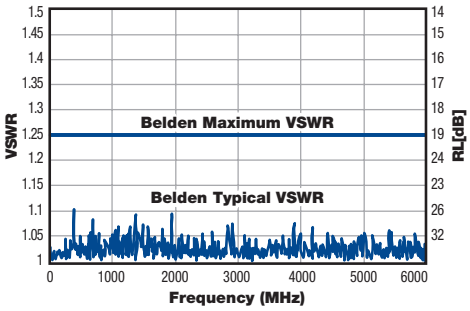
- **Unbonded Foil Shields** (on smaller constructions prevent connector shorting)
  In the smaller designs – RF200 and under – the spacing between the foil shield and the centre pin of the connector is extremely small. During the cable stripping process, bonded foil shields tend to tear if not cleanly cut, leaving very small foil "stringers" that can short the shield to the center conductor. Unbonded shields allow for the tape to be cut back from the dielectric, thereby eliminating the potential shorting problem. The unbonded shields are featured on RF100A, RF100LL, RF195 and RF200. Larger constructions – including the new water-blocked (WB) versions – have sufficient spacing between the shield and centre pin, and therefore feature bonded foil shields.

- **Unique Design**
  Belden's RF100LL is the only design of its type. It features a slightly larger center conductor and foamed polyethylene insulation, while maintaining the dimensions of the MIL-Spec cable, eliminating the need for special connectors. These two features combined produce an attenuation that is approximately 7% lower than the standard solid polyethylene RF100 design.

- **Connector Compatibility**
  The RF series cables are compatible with all standard land mobile radio-type connectors, including Times Microwave, RF Industries, Amphenol, Trompeter, EF Johnson and others.

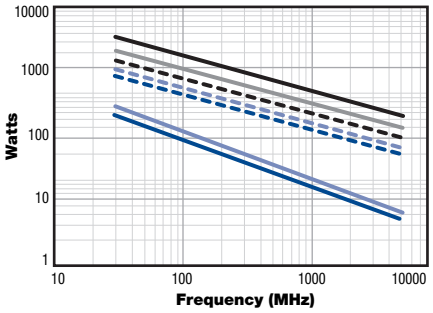
- **Conformable Coax**
  For applications requiring low VSWR and high shield effectiveness, Belden's complete product range of 50 Ohm conformable coax cables offers unequalled performance. These patented cables serve as a replacement for semi-rigid cables and, unlike semi-rigid, they are hand formable.

Guaranteed VSWR



Note: Voltage Standing Wave Ratio (VSWR) is a measurement of the reflected power in a cable or instrument. The higher the VSWR the poorer the transmission characteristics of the cable.

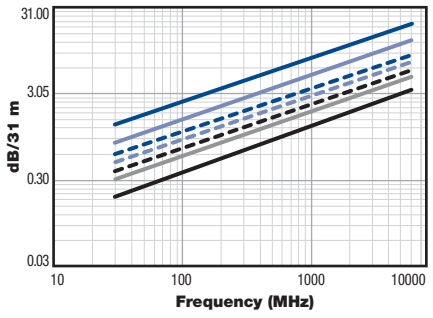
Power Rating



Legend:

— RF100A
— RF100LL
--- RF195
--- RF200
--- RF240
— RF300
— RF400

Attenuation



Phase Stability

Phase Attribute	Typical Range (0.45 GHz to 6.0 GHz)	
	ppm/°C	Degree/GHz/m
Temperature (-40°C to +55°C)[1]	± 9	± 0.6
Bending & Flexing (25 cycles)[2]	NA	± 1.1

1: Per IEC 60965-1 clause 8.8
2: Per IEC 60965-1 clause 8.6

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Introduction

BROADBAND

RF Cables Cross-Reference Guide

RG Type	Cable Type	Belden Part No.	Amphenol	Commscope	Harbour Industries	Times Microwave
RG-174	RF100A	**7805**	–	–	HPP100	LMR®-100A
	RF100LL	**7805R**	–	–	–	–
RG-58	RF195	**7806A**	–	WBC™-195	HPP100	LMR®-195
	RF195	**7806R**	–	WBC™-195R	on request	on request
	RF200	**7807A**	–	WBC™-200	HPP200	LMR®-200
	RF200	**7807R**	–	WBC™-200R	on request	on request
RG-8X	RF240	**7808A**	TWB 2401	WBC™-240	HPP240	LMR®-240
	RF240	**7808R**	TWB 2401-FR	WBC™-240R	on request	on request
	RF240	**7808WB**	–	–	–	–
Intermediate	RF300	**7809A**	–	WBC™-300	HPP300	LMR®-300
	RF300	**7809R**	–	WBC™-300R	on request	on request
	RF300	**7809WB**	–	–	–	LMR®-300-DB
RG-8	RF400	**7810A**	TWB 4001	WBC™-400	HPP400	LMR®-400
	RF400	**7810R**	TWB 4001-FR	WBC™-400R	on request	on request
	RF400	**7810WB**	–	–	–	LMR®-400-DB

WBC™ is a Commscope trademark.
LMR® is a Times Microwave trademark.

RG Cable Replacement Guide

Belden Part No.	Size	Replacing
7805	RF100A	RG-174/U
7805R	RF100LL	RG-174/U
7806A	RF195	RG-58/U
7807A	RF200	RG-58/U
7808A	RF240	RG-8X
7809A	RF300	RG-8X
7810A	RF400	RG-8/U

Availability

Many of these cables are available off the shelf from distributors. If you have a new or unusual application or you cannot find a CATV cable in this catalog section that meets your technical requirements contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

Corresponding Literature

Product Bulletins

NP 182: Belden expands line of low loss 50 Ohm RF transmission cable
NP 186: RF500 and RF600 low loss 50 Ohm
NP E101: Messenger cable
NP 230: Wi-Fi Tower shielded twisted pair

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Connector Cross Reference

BROADBAND

Belden	Cabelcon Hardline	Cabelcon F-Crimp	Cabelcon F-Compression	Thomas & Betts	PPC Hardline	PPC F-Crimp	PPC F-Compression	Telegaertner (BNC)	ADC	ADC F-Crimp
CX3C0 Coax 3	Type -46	–	–	EI, EFI and X Series	H011	–	–	–	–	–
CX3C1 Coax 3	Type -76	–	–	EI, EFI and X Series	G012	–	–	–	–	–
CX3C2 Coax 3	Type -46	–	–	EI, EFI and X Series	H011	–	–	–	–	–
CX3C3 Coax 3	Type -46	–	–	EI, EFI and X Series	H011	–	–	–	–	–
CX4C0 Coax 4	Type -413	–	–	EI, EFI and X Series	E019	–	–	–	–	–
CX4C1 Coax 4	Type -413	–	–	EI, EFI and X Series	E019	–	–	–	–	–
CX4C2 Coax 4	Type -413	–	–	EI, EFI and X Series	E019	–	–	–	–	–
CX4C3 Coax 4	Type -413	–	–	EI, EFI and X Series	E019	–	–	–	–	–
CT167C1	Type -32	–	–	–	–	–	–	–	–	–
CT167C3	Type -32	–	–	–	–	–	–	–	–	–
CT167C0	Type -32	–	–	–	–	–	–	–	–	–
CT167C2	Type -32	–	–	–	–	–	–	–	–	–
CT125C1	Type -21	F-56-UNIV 5.7/8.8	–	–	–	–	–	–	BNC-27	on request
CT125C3	Type -21	–	–	–	–	–	–	–	BNC-27	on request
CT125C0	Type -21	–	–	–	–	–	–	–	BNC-27	on request
CT100C0	Type -01	–	–	–	–	–	–	J01002A0000	BNC-9	CF-9
CT100C3	Type -01	–	–	–	–	–	–	J01002A0000	BNC-9	CF-9
CT100C1	Type -01	–	–	–	–	–	–	J01002A0000	BNC-9	CF-9
RG6D00 DB+	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	–	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
RG6D01 DB+	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	–	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
RG7C01	Type -245	–	F-RG7-CX3 6.0	–	–	–	–	–	BNC-27	on request
RG7C02	Type -245	–	F-RG7-CX3 6.0	–	–	–	–	–	BNC-27	on request
RG7C00	–	–	–	–	–	–	–	–	BNC-27	on request
PRG11A2	Type -32	FM-RG11-ALM 7.4/11.7	FM-RG11-CX3 7.5	SNS11 Range	B004	CFS 11	EX11	J01002A0054 (cut-away foil)	BNC-25-N	on request
PRG11A3	Type -32	FM-RG11-ALM 7.4/11.7	FM-RG11-CX3 7.5	SNS11 Range	B004	CFS 11	EX11	J01002A0054 (cut-away foil)	BNC-25-N	on request
PRG11C0	Type -32	FM-RG11-ALM 7.4/11.7	FM-RG11-CX3 7.5	SNS11 Range	B004	CFS 11	EX11	J01002A0054 (cut-away foil)	BNC-25-N	on request
PRG11C2	Type -32	FM-RG11-ALM 7.4/11.7	FM-RG11-CX3 7.5	SNS11 Range	B004	CFS 11	EX11	J01002A0054 (cut-away foil)	BNC-25-N	on request
PRG11C4	Type -32	FM-RG11-ALM 7.4/11.7	FM-RG11-CX3 7.5	SNS11 Range	B004	CFS 11	EX11	J01002A0054 (cut-away foil)	BNC-25-N	on request
PRG11C6	Type -32	FM-RG11-ALM 7.4/11.7	FM-RG11-CX3 7.5	SNS11 Range	B004	CFS 11	EX11	J01002A0054 (cut-away foil)	BNC-25-N	on request
PRG11D0 DB+	Type -32	FM-RG11-ALM 7.4/11.7	FM-RG11-CX3 7.5	SNS11 Range	B004	CFS 11	EX11	J01002A0054 (cut-away foil)	BNC-25-N	on request
PRG11D1 DB+	Type -32	FM-RG11-ALM 7.4/11.7	FM-RG11-CX3 7.5	SNS11 Range	B004	CFS 11	EX11	J01002A0054 (cut-away foil)	BNC-25-N	on request
PRG11D3 DB+	Type -32	FM-RG11-ALM 7.4/11.7	FM-RG11-CX3 7.5	SNS11 Range	B004	CFS 11	EX11	J01002A0054 (cut-away foil)	BNC-25-N	on request
PRG7A00	Type -21	F-56-UNIV 5.7/8.8	F-56-CX3 5.7	SNS7 Range	A031	–	CMP PRG7	–	–	–
PRG7A01	Type -21	F-56-UNIV 5.7/8.8	F-56-CX3 5.7	SNS7 Range	A031	–	CMP PRG7	–	–	–
PRG7C00	Type -21	F-56-UNIV 5.7/8.8	F-56-CX3 5.7	SNS7 Range	A031	–	CMP PRG7	–	–	–
PRG7C01	Type -21	F-56-UNIV 5.7/8.8	F-56-CX3 5.7	SNS7 Range	A031	–	CMP PRG7	–	–	–

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Connector Cross Reference *(continued)*

BROADBAND

Belden	Cabelcon Hardline	Cabelcon F-Crimp	Cabelcon F-Compression	Thomas & Betts	PPC Hardline	PPC F-Crimp	PPC F-Compression	Telegaertner (BNC)	ADC	ADC F-Crimp
RG6A00	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	–	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
H105B00	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	–	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0013	–	–
H106T00	Type -11	F-59-ALM 3.9/7.6	F-59-CX3 3.9	–	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A1352	BNC-2-N	on request
H106T01	Type -11	F-59-ALM 3.9/7.6	F-59-CX3 3.9	–	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A1352	BNC-2-N	on request
H109C00	–	–	–	–	–	–	–	–	–	–
H109C02	–	–	–	–	–	–	–	–	–	–
H126A00	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	SNS6 Range	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
H126A02	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	SNS6 Range	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
H126A03	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	SNS6 Range	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
H126D00 DB+	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	SNS6 Range	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
H126D02 DB+	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	SNS6 Range	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
H126D03 DB+	Type -01	F-56-UNIV 4.9/8.8	F-56-CX3 4.9	SNS6 Range	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
H126D04 DB+	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 4.9	SNS6 Range	A025	CFS 6	EX6 4.9 + CMP6 4.9	J01002A0000	BNC-8-N	CF-8
H125A00	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0010	BNC-9	CF-9
H125A01	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0010	BNC-9	CF-9
H125C02	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0010	BNC-9	CF-9
H125A03	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0010	BNC-9	CF-9
H125A04	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0010	BNC-9	CF-9
H125A06	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0010	BNC-9	CF-9
H125A07	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0010	BNC-9	CF-9
H125A08	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0010	BNC-9	CF-9
H125C00	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0010	BNC-9	CF-9
H125C01	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0038	BNC-9	CF-9
H125C03	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0038	BNC-9	CF-9
H125C04	Type -01	F-56-ALM 4.9/8.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0038	BNC-9	CF-9
H125D00	Type -01	F-56-ALM 3.7/6.4	F-56-CX3 5.1	SNS59 Range	A025	CFS 6 JSUV	EX6 5.1 + CMP6 5.1	J01002A0038	BNC-9	CF-9
H121A00	Type -106	F-59-ALM 3.7/6.4	F-59-CX3 3.7	–	–	–	CMP MC 37	J01002A0016	BNC-6	on request
H121A01	Type -106	F-59-ALM 3.7/6.4	F-59-CX3 3.7	–	–	–	CMP MC 37	J01002A0016	BNC-6	on request
H121A02	Type -106	F-59-ALM 3.7/6.4	F-59-CX3 3.7	–	–	–	CMP MC 37	J01002A0016	BNC-6	on request
H121A03	Type -106	F-59-ALM 3.7/6.4	F-59-CX3 3.7	–	–	–	CMP MC 37	J01002A0016	BNC-6	on request
H121A04	Type -106	F-59-ALM 3.7/6.4	F-59-CX3 3.7	–	–	–	CMP MC 37	J01002A0016	BNC-6	on request
H121C00	Type -106	F-59-ALM 3.7/6.4	F-59-CX3 3.7	–	–	–	CMP MC 37	J01002A0016	BNC-26-N	on request

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Connector Cross Reference *(continued)*

BROADBAND

Belden	Cabelcon Hardline	Cabelcon F-Crimp	Cabelcon F-Compression	Thomas & Betts	PPC Hardline	PPC F-Crimp	PPC F-Compression	Telegaertner (BNC)	ADC	ADC F-Crimp
H123A02	–	F-60-MINI 3.2/5.6	–	Mini SNS Range	–	–	CMP MC 32	J01002A0030	BNC-26-N	on request
H123A01	–	F-60-MINI 3.2/5.6	–	Mini SNS Range	–	–	CMP MC 32	J01000A0030	BNC-26-N	on request
H123A00	–	F-60-MINI 3.2/5.6	–	Mini SNS Range	–	–	CMP MC 32	J01000A0030	–	–
H1000C3	Type -201/50	NM/50-RG213-EPA 7.6/12.0	–	–	B503	–	–	J01000A0063	–	–
H1000C0	Type -201/50	NM/50-RG213-EPA 7.6/12.0	–	–	B503	–	–	J01000A0063	–	–
H1000C1	Type -201/50	NM/50-RG213-EPA 7.6/12.0	–	–	B503	–	–	J01000A0063	–	–
H1001C1	Type -201/50	NM/50-RG213-EPA 7.6/12.0	–	–	B503	–	–	J01000A0063	–	–
H500C00	Type -204/50	–	–	–	–	–	–	J01000A0063	–	–
MRG5900	–	F-59-UNIV 3.9/8.4	F-59-CX3 3.9 HEC	–	–	–	–	J01002A1352	–	–
MRG2130	Type -206/50	NM/50-RG213-EPA 7.6/12.0	–	–	B501	–	–	J01000A0059	–	–
MRG5800	–	–	–	–	–	–	–	J01000F1255	–	–
1523A	–	–	–	SNS11AS	–	–	–	–	BNC-25-N	on request
1524M	–	–	–	SNS11AS	–	–	–	–	BNC-25-N	on request
9116	–	–	–	SNS1PGU	–	–	–	–	BNC-20	on request
1674A	–	–	–	SNS1PGU	–	–	–	–	–	–

Selection Guide: Class A Products

Trunk and Distribution Cable			Drop Cable	
Class A++	**Class A+**	**Class A**	**Class A**	
CX3C0	**CX4C0**	**CT167C0**	**CT125C0**	**H125D00**
CX3C1	**CX4C1**	**CT167C1**	**CT125C1**	**H126D00**
CX3C2	**CX4C2**	**CT167C2**	**CT125C3**	**H126D02**
CX3C3	**CX4C3**	**CT167C3**	**H121A03**	**H126D03**
	PRG11D0	**PRG11A2**	**H121A04**	**H126D04**
	PRG11D1	**PRG11A3**	**H123A01**	**RG6D00**
	PRG11D3	**PRG11C0**	**H123A02**	**RG6D01**
		PRG11C2		
		PRG11C4		
		PRG11C6		
		1523A		
		1524M		
		1525A		

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Broadband Coax

Trunk Cables

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
Coax 3C • Solid 3.38 mm Bare Copper • **Copper-Foil** • 60 % Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Polyethylene Jacket (Black or Green)																			
70°C	**CX3C0**		2296	700	496.9	225.4	3.38 mm Solid BC 4.5 Ω/km* 1.9 Ω/km**	0.587	14.90	Cu-foil + 60 % BC Braid 2.6 Ω/km*** 15.8 mm	0.780	19.80	75	84 %	16.5	54.0	5	0.1	0.4
			3444	1050	745.4	338.1											50	0.4	1.3
																	100	0.5	1.8
																	230	0.9	2.9
																	400	1.2	3.9
																	800	1.7	5.7
																	862	1.8	5.9
																	1000	2.0	6.5
																	1350	2.3	7.7
																	1750	2.7	9.0
																	2150	3.1	10.2
																	2400	3.3	10.9
FB20			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 0.8 mΩ/m Screening Class: A++ Pulling Tension: 1200 N										
70°C	**CX3C3**		2296	700	626.5	284.2	3.38 mm Solid BC 4.5 Ω/km* 1.9 Ω/km**	0.587	14.90	Cu-foil + 60 % BC Braid 2.6 Ω/km*** 15.8 mm	0.780	19.80 x 30.00	75	84 %	16.5	54.0			see above
FB20			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 0.8 mΩ/m Screening Class: A++ Pulling Tension: 6000 N										
Available in Black. 7.2 mm ZP messenger																			
Gas-Injected Polyethylene Insulation • Grey FRNC/LSNH Jacket																			
70°C	**CX3C2**	IEC 332-1	2296	700	620.4	281.4	3.38 mm Solid BC 4.5 Ω/km* 1.9 Ω/km**	0.587	14.90	Cu-foil + 60 % BC Braid 2.6 Ω/km*** 15.8 mm	0.780	19.80	75	84 %	16.5	54.0			see above
FB20			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 0.8 mΩ/m Screening Class: A++ Pulling Tension: 1200 N										
Coax 3C • Solid 3.38 mm Bare Copper • **Copper-Foil**																			
Gas-Injected Polyethylene Insulation • Polyethylene Jacket (Black or Green)																			
70°C	**CX3C1**		2296	700	419.8	190.4	3.38 mm Solid BC 4.5 Ω/km* 1.9 Ω/km**	0.587	14.90	Cu-foil 2.6 Ω/km*** 15.3 mm	0.709	18.00	75	84 %	16.5	54.0			see above
			3444	1050	629.6	285.6													
FB18			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 0.8 mΩ/m Screening Class: A++ Pulling Tension: 1200 N										

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • ZP = Stranded Zinc-Plated Steel

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Broadband Coax

Trunk Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
Coax 3.5A • Solid 3.15 mm Copper-Clad Aluminium • Welded Aluminum Tube																			
Gas-Injected Foam Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**YE00131**		3280	1000	282.2	128.0	3.15 mm Solid CCA 5.55 Ω/km* 3.5 Ω/km**	0.513	13.03	Welded Aluminum Tube 2.05 Ω/km*** 13.72 mm	0.610	15.50	75	88%	15.2	50.0	5	0.1	0.5
																	50	0.5	1.5
																	100	0.6	2.1
																	200	1.0	3.1
																	400	1.4	4.5
																	862	2.1	6.9
																	1000	2.3	7.4
Flooded			Return loss at 30-450 MHz: ≥ 30 dB 450-600 MHz: ≥ 28 dB 600-1000 MHz: ≥ 26 dB							Screening attenuation at 50-2150 MHz: ≥ 100 dB									
70°C	**YE00132**		3280	1000	407.9	185.0	3.15 mm Solid CCA 5.55 Ω/km* 3.5 Ω/km**	0.513	13.03	Welded Aluminum Tube 2.05 Ω/km*** 13.72 mm	0.610	15.50	75	88%	15.2	50.0	see above		
2.75 mm Steel Wire messenger			Return loss at 30-450 MHz: ≥ 30 dB 450-600 MHz: ≥ 28 dB 600-1000 MHz: ≥ 26 dB							Screening attenuation at 50-2150 MHz: ≥ 100 dB									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • CCA = Copper-Clad Aluminum

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Broadband Coax

Trunk Cables

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
Coax 4C • Solid 2.23 mm Bare Copper • **Copper-Foil** • 60 % Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Polyethylene Jacket (Black or Green)																			
70°C	**CX4C0**		1640	500	183.0	83.0	2.23 mm Solid BC 9.0 Ω/km* 4.5 Ω/km**	0.402	10.20	Cu-foil + 60 % BC Braid 4.5 Ω/km*** 11.0 mm	0.543	13.80	75	82 %	16.5	54.0	5	0.2	0.6
			3280	1000	366.0	166.0											50	0.6	1.9
																	100	0.9	2.8
																	230	1.3	4.4
																	400	1.8	5.9
																	800	2.7	8.8
																	862	2.8	9.2
																	1000	3.0	10.0
																	1350	3.6	11.9
																	1750	4.2	13.9
																	2150	4.8	15.7
																	2400	5.1	16.8
FB14			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 1.9 mΩ/m Screening Class: A+ Pulling Tension: 400 N										
70°C	**CX4C3**		1640	500	248.0	112.5	2.23 mm Solid BC 9.0 Ω/km* 4.5 Ω/km**	0.402	10.20	Cu-foil + 60 % BC Braid 4.5 Ω/km*** 11.0 mm	0.543	13.80 x 21.50	75	82 %	16.5	54.0			see above
FB14			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 1.9 mΩ/m Screening Class: A+ Pulling Tension: 6000 N										
Available in Black. 5.8 mm ZP messenger																			
Gas-Injected Polyethylene Insulation • Grey FRNC/LSNH Jacket																			
70°C	**CX4C2**	IEC 332-1	1640	500	211.6	96.0	2.23 mm Solid BC 9.0 Ω/km* 4.5 Ω/km**	0.402	10.20	Cu-foil + 60 % BC Braid 4.5 Ω/km*** 11.0 mm	0.543	13.80	75	82 %	16.5	54.0			see above
FB14			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 1.9 mΩ/m Screening Class: A+ Pulling Tension: 400 N										
Coax 4C • Solid 2.23 mm Bare Copper • **Copper-Foil**																			
Gas-Injected Polyethylene Insulation • Polyethylene Jacket (Black or Green)																			
70°C	**CX4C1**		1640	500	177.5	80.5	2.23 mm Solid BC 9.0 Ω/km* 4.5 Ω/km**	0.402	10.20	Cu-foil 4.5 Ω/km*** 10.6 mm	0.543	13.80	75	82 %	16.5	54.0			see above
			3280	1000	354.9	161.0													
FB14			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 1.9 mΩ/m Screening Class: A+ Pulling Tension: 600 N										

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • ZP = Stranded Zinc-Plated Steel

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Broadband Coax
Distribution Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
CT167C • Solid 1.67 mm Bare Copper • **Copper-Foil** • 55 % Bare Copper Braid																			
5-Cell Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**CT167C1**		328	100	24.5	11.1	1.67 mm Solid BC 15.0 Ω/km* 8.5 Ω/km**	0.287	7.28	Cu-foil + 55% BC Braid 6.5 Ω/km*** 8.1 mm	0.398	10.10	75	81%	16.5	54.0	5	0.3	0.9
			820	250	61.2	27.8											50	0.9	2.8
																	230	1.8	6.0
																	470	2.9	9.4
																	862	3.8	12.6
																	1000	4.3	14.0
																	1350	5.0	16.3
			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 300 N							1750	5.9	19.2
																	2150	6.7	21.9
																	2400	7.1	23.2
																	3000	8.0	26.1
5-Cell Polyethylene Insulation • Black RBS Polyethylene Jacket																			
70°C	**CT167C3**		820	250	63.4	28.8	1.67 mm Solid BC 15.0 Ω/km* 8.5 Ω/km**	0.287	7.28	Cu-foil + 55% BC Braid 6.5 Ω/km*** 8.1 mm	0.398	10.10	75	81%	16.5	54.0	see above		
RBS jacket			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 300 N									
5-Cell Polyethylene Insulation • Black PVC Jacket																			
70°C	**CT167C0**		820	250	52.4	23.8	1.67 mm Solid BC 15.0 Ω/km* 8.5 Ω/km**	0.287	7.28	Cu-foil + 55% BC Braid 6.5 Ω/km*** 8.1 mm	0.398	10.10	75	81%	16.5	54.0	see above		
			1640	500	104.7	47.5													
			3280	1000	209.4	95.0													
			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 300 N									
5-Cell Polyethylene Insulation • Grey FRNC/LSNH Jacket																			
70°C	**CT167C2**	IEC 322-1	820	250	52.4	23.8	1.67 mm Solid BC 15.0 Ω/km* 8.5 Ω/km**	0.287	7.28	Cu-foil + 55% BC Braid 6.5 Ω/km*** 8.1 mm	0.398	10.10	75	81%	16.5	54.0	see above		
			1640	500	104.7	47.5													
			3280	1000	209.4	95.0													
			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2150 MHz: ≥ 18 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 300 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper

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Broadband Coax
Distribution Cables

BROADBAND

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m

Series 11 • 14 AWG • Solid 1.63 mm Copper-Covered Steel • **Duobond® II** • 60 % Aluminum Braid

Gas-Injected Foam Polyethylene Insulation • PVC Jacket (Black and White)

80°C	**1523A**	NEC: CATV CM CEC: CM	1000	305	67.0	30.4	1.63 mm 14 AWG Solid CCS 49.6 Ω/km* 36.1 Ω/km**	0.280	7.11	Duobond® II + 60% AL Braid 13.4 Ω/km*** 7.98 mm	0.400	10.16	75	83%	16.2	53.1	5 55 240 450 862 1000 1450 1800 2250 3000	0.3 0.9 1.8 2.5 3.5 3.8 5.0 5.7 6.5 8.0	1.1 3.0 5.8 8.0 11.4 12.4 16.4 18.7 21.3 26.3



Return loss at 5-470 MHz: ≥ 23 dB; 470-862 MHz: ≥ 20 dB; 862-2150 MHz: ≥ 18 dB

Screening attenuation at 30-1000 MHz: ≥ 85 dB
Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m
Screening Class: A
Pulling Tension: 1156 N
Sweep tested. 5 MHz to 1 GHz.

80°C Aerial	**1524AM**		1000	305	90.0	40.8	1.63 mm 14 AWG Solid CCS 49.6 Ω/km* 36.1 Ω/km**	0.280	7.11	Duobond® II + 60% AL Braid 13.4 Ω/km*** 7.98 mm	0.400 x 0.580	10.16 x 14.73	75	83%	16.2	53.1			see above



Return loss at 5-470 MHz: ≥ 23 dB; 470-862 MHz: ≥ 20 dB; 862-2150 MHz: ≥ 18 dB

Screening attenuation at 30-1000 MHz: ≥ 85 dB
Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m
Screening Class: A
Pulling Tension: 2400 N
Sweep tested. 5 MHz to 1 GHz.

1.83 mm galvanized steel messenger

Gas-Injected Foam Polyethylene Insulation • Polyethylene Jacket (Black or Orange)

80°C Burial	**1525A**		1000	305	60.2	27.3	1.63 mm 14 AWG Solid CCS 49.6 Ω/km* 36.1 Ω/km**	0.280	7.11	Duobond® II + 60% AL Braid 13.4 Ω/km*** 7.98 mm	0.400	10.16	75	83%	16.2	53.1			see above



Core Guard®

Return loss at 5-470 MHz: ≥ 23 dB; 470-862 MHz: ≥ 20 dB; 862-2150 MHz: ≥ 18 dB

Screening attenuation at 30-1000 MHz: ≥ 85 dB
Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m
Screening Class: A
Pulling Tension: 1156 N
Sweep tested. 5 MHz to 1 GHz.

PRG11C • Solid 1.55 mm Bare Copper • **Copper-Foil** • 50 % Bare Copper Braid

Gas-Injected Polyethylene Insulation • Polyethylene Jacket (Black or Green)

70°C	**PRG11C0**		820 1640 3280	250 500 1000	37.5 75.0 149.9	17.0 34.0 68.0	1.55 mm Solid BC 20.0 Ω/km* 9.4 Ω/km**	0.285	7.25	Cu-foil + 50% BC Braid 10.6 Ω/km*** 7.9 mm	0.398	10.10	75	81%	16.8	55.0	5 50 230 470 862 1000 1350 1750 2150 2400 3000	0.3 0.9 1.8 2.7 3.7 4.1 4.9 5.7 6.4 6.9 7.8	0.9 2.8 6.0 8.8 12.2 13.6 16.1 18.7 21.1 22.5 25.7



Return loss at 5-470 MHz: ≥ 26 dB; 470-1000 MHz: ≥ 23 dB; 1000-2000 MHz: ≥ 18 dB; 2000-3000 MHz: ≥ 16 dB

Screening attenuation at 30-1000 MHz: ≥ 85 dB
Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m
Screening Class: A
Pulling Tension: 225 N

1000 m put-up available in Black only.

70°C	**PRG11C6**		820 1640 3280	250 500 1000	63.4 126.8 253.5	28.8 57.5 115.0	1.55 mm Solid BC 20.0 Ω/km* 9.4 Ω/km**	0.285	7.25	Cu-foil + 50% BC Braid 10.6 Ω/km*** 7.9 mm	0.398	10.10 x 16.20	75	81%	16.8	55.0			see above



Return loss at 5-470 MHz: ≥ 26 dB; 470-1000 MHz: ≥ 23 dB; 1000-2000 MHz: ≥ 18 dB; 2000-3000 MHz: ≥ 16 dB

Screening attenuation at 30-1000 MHz: ≥ 85 dB
Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m
Screening Class: A
Pulling Tension: 4600 N

Available in Black.
4.6 mm ZP messenger

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • CCS = Copper-Covered Steel • AL = Aluminum • ZP = Stranded Zinc-Plated Steel

Duobond® II see technical information page 23.13.

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Broadband Coax
Distribution Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
PRG11C • Solid 1.55 mm Bare Copper • **Copper-Foil** • 50 % Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Grey FRNC/LSNH Jacket																			
70°C	**PRG11C2**	IEC 332-1	820	250	45.2	20.5	1.55 mm Solid BC 20.0 Ω/km* 9.4 Ω/km**	0.285	7.25	Cu-foil + 50% BC Braid 10.6 Ω/km*** 7.9 mm	0.398	10.10	75	81%	16.8	55.0	5	0.3	0.9
			1640	500	90.4	41.0											50	0.9	2.8
																	230	1.8	6.0
																	470	2.7	8.8
																	862	3.7	12.2
																	1000	4.1	13.6
																	1350	4.9	16.1
																	1750	5.7	18.7
																	2150	6.4	21.1
																	2400	6.9	22.5
																	3000	7.8	25.7
			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 225 N									
Gas-Injected Polyethylene Insulation • PVC Jacket (Black or White)																			
70°C	**PRG11C4**		820	250	44.6	20.3	1.55 mm Solid BC 20.0 Ω/km* 9.4 Ω/km**	0.285	7.25	Cu-foil + 50% BC Braid 10.6 Ω/km*** 7.9 mm	0.398	10.10	75	81%	16.8	55.0	see above		
			1640	500	89.3	40.5													
			3280	1000	178.6	81.0													
			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 225 N									
1000 m put-up available in Black only.																			
PRG11A • Solid 1.55 mm Bare Copper • **Duofoil®** • 50 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**PRG11A3**		1640	500	67.2	30.5	1.55 mm Solid BC 22.2 Ω/km* 9.4 Ω/km**	0.285	7.25	Duofoil® + 50% TC Braid 12.8 Ω/km*** 7.9 mm	0.398	10.10	75	81%	16.8	55.0	5	0.3	0.9
																	50	0.9	2.9
																	230	2.0	6.4
																	470	2.8	9.3
																	862	4.0	13.0
																	1000	4.3	14.2
																	1350	5.1	16.8
			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 225 N							1750 2150 2400 3000	5.9 6.7 7.1 8.1	19.5 21.9 23.4 26.7
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**PRG11A2**		1640	500	86.0	39.0	1.55 mm Solid BC 22.2 Ω/km* 9.4 Ω/km**	0.285	7.25	Duofoil® + 50% TC Braid 12.8 Ω/km*** 7.9 mm	0.398	10.10	75	81%	16.8	55.0	see above		
			Return loss at 5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 225 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper

Duofoil® see technical information page 23.13.

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Broadband Coax
Distribution Cables

BROADBAND

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PRG11D • Solid 1.55 mm Bare Copper • **Duobond Plus®** • 50 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**PRG11D3**		820	250	34.7	15.8	1.55 mm Solid BC 18.9 Ω/km* 9.4 Ω/km**	0.285	7.25	Duobond Plus® + 50 % TC Braid 9.5 Ω/km*** 8.1 mm	0.398	10.10	75	81 %	16.8	55.0	5	0.3	0.9
			1640	500	69.4	31.5											50	0.9	2.8
																	230	1.9	6.2
																	470	2.8	9.1
																	862	3.9	12.7
																	1000	4.2	13.9
BTQ																	1350	5.0	16.5
		Return loss at	5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 105 dB Transfer impedance at 5-30 MHz: ≤ 1.9 mΩ/m Screening Class: A+ Pulling Tension: 250 N							1750	5.8	19.0
																	2150	6.4	21.1
																	2400	6.9	22.5
																	3000	7.7	25.2
Gas-Injected Polyethylene Insulation • Black FRNC/LSNH Jacket																			
70°C	**PRG11D1**	IEC 332-1	1640	500	97.0	44.0	1.55 mm Solid BC 16.4 Ω/km* 9.4 Ω/km**	0.285	7.25	Duobond Plus® + 70 % TC Braid 7.0 Ω/km*** 8.1 mm	0.398	10.10	75	81 %	16.8	55.0			see above
BTQ																			
		Return loss at	5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 105 dB Transfer impedance at 5-30 MHz: ≤ 1.9 mΩ/m Screening Class: A+ Pulling Tension: 250 N									
Gas-Injected Polyethylene Insulation • Black PVC Jacket																			
70°C	**PRG11D0**		1640	500	83.8	38.0	1.55 mm Solid BC 18.9 Ω/km* 9.4 Ω/km**	0.285	7.25	Duobond Plus® + 50 % TC Braid 9.5 Ω/km*** 8.1 mm	0.398	10.10	75	81 %	16.8	55.0			see above
BTQ																			
		Return loss at	5-470 MHz: ≥ 26 dB 470-1000 MHz: ≥ 23 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 105 dB Transfer impedance at 5-30 MHz: ≤ 1.9 mΩ/m Screening Class: A+ Pulling Tension: 250 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper

Duobond Plus® see technical information page 23.13.

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Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
CT125C • Solid 1.25 mm Bare Copper • **Copper-Foil** • 51 % Bare Copper Braid																			
5-Cell Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**CT125C1**		820 1640 3280	250 500 1000	31.4 62.8 125.7	14.3 28.5 57.0	1.25 mm Solid BC 28.5 Ω/km* 15.0 Ω/km**	0.217	5.50	Cu-foil + 51 % BC Braid 13.5 Ω/km*** 6.2 mm	0.307	7.80	75	81%	16.5	54.0	50 230 470 862 1000 1750 2150	1.1 2.4 3.5 4.7 5.2 6.7 7.9	3.5 7.8 11.6 15.5 17.0 22.0 26.0
Return loss at 5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 100 N													
5-Cell Polyethylene Insulation • Black RBS Polyethylene Jacket																			
70°C	**CT125C3**		1640 3280	500 1000	88.2 176.4	40.0 80.0	1.25 mm Solid BC 28.5 Ω/km* 15.0 Ω/km**	0.217	5.50	Cu-foil + 51 % BC Braid 13.5 Ω/km*** 6.2 mm	0.307	7.80	75	81%	16.5	54.0			see above
RBS jacket																			
Return loss at 5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 100 N													
5-Cell Polyethylene Insulation • Black PVC Jacket																			
70°C	**CT125C0**		328 820 1640	100 250 500	15.0 37.5 75.0	6.8 17.0 34.0	1.25 mm Solid BC 28.5 Ω/km* 15.0 Ω/km**	0.217	5.50	Cu-foil + 51 % BC Braid 13.5 Ω/km*** 6.2 mm	0.307	7.80	75	81%	16.5	54.0			see above
Return loss at 5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m Screening Class: A Pulling Tension: 100 N													
RG7C • Solid 1.25 mm Bare Copper • **Copper-Foil** • 50 % Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**RG7C01**		820 1640	250 500	34.4 68.9	15.6 31.3	1.25 mm Solid BC 26.5 Ω/km* 14.5 Ω/km**	0.224	5.70	Cu-foil + 50% BC Braid 12.0 Ω/km*** 6.3 mm	0.319	8.10	75	82%	16.5	54.0	5 50 100 230 400 800 862 1000 1350 1750 2150 2400	0.4 1.0 1.5 2.3 3.1 4.5 4.6 5.0 5.9 6.9 7.7 8.2	1.2 3.4 4.9 7.5 10.1 14.6 15.1 16.5 19.5 22.6 25.3 27.0
Return loss at 5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m Screening Class: B Pulling Tension: 90 N													
Gas-Injected Polyethylene Insulation • Black FRNC/LSNH Jacket																			
70°C	**RG7C02**	IEC 332-1	820 1640	250 500	34.4 68.9	15.6 31.3	1.25 mm Solid BC 26.5 Ω/km* 14.5 Ω/km**	0.224	5.70	Cu-foil + 50% BC Braid 12.0 Ω/km*** 6.3 mm	0.319	8.10	75	82%	16.5	54.0			see above
Return loss at 5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m Screening Class: B Pulling Tension: 90 N													

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper

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Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
RG7C • Solid 1.25 mm Bare Copper • **Copper-Foil** • 50 % Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Black PVC Jacket																			
70°C	**RG7C00**		820	250	34.4	15.6	1.25 mm	0.224	5.70	Cu-foil	0.319	8.10	75	82%	16.5	54.0	5	0.5	1.5
			1640	500	68.9	31.3	Solid BC			+ 50% BC							50	1.1	3.5
							26.5 Ω/km*			Braid							100	1.5	5.0
							14.5 Ω/km**			12.0 Ω/km***							230	2.3	7.5
										6.3 mm							400	3.1	10.1
																	800	4.5	14.6
																	862	4.7	15.5
																	1000	5.2	17.0
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB							1350	5.9	19.5
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m							1750	6.7	22.0
				1000-2000 MHz: ≥ 18 dB						Screening Class: B							2150	7.9	26.0
				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 90 N							2400	8.2	27.0
PRG7C • Solid 1.2 mm Bare Copper • **Copper-Foil** • 40 % Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Polyethylene Jacket (Black or Green)																			
70°C	**PRG7C01**		820	250	22.6	10.3	1.2 mm	0.213	5.40	Cu-foil	0.280	7.10	75	83%	16.5	54.0	5	0.4	1.2
			1640	500	45.2	20.5	Solid BC			+ 40% BC							50	1.1	3.6
			3280	1000	90.4	41.0	34.6 Ω/km*			Braid							100	1.6	5.2
							15.6 Ω/km**			19.0 Ω/km***							230	2.4	7.9
										5.84 mm							400	3.2	10.5
																	800	4.6	15.2
																	862	4.8	15.8
																	1000	5.2	17.1
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB							1350	6.1	20.1
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m							1750	7.1	23.2
				1000-2000 MHz: ≥ 18 dB						Screening Class: B							2150	7.9	26.0
250 m put-up available in Black only.				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 80 N							2400	8.4	27.7
Gas-Injected Polyethylene Insulation • PVC Jacket (Black or White)																			
70°C	**PRG7C00**		B-328	B-100	10.4	4.7	1.2 mm	0.213	5.40	Cu-foil	0.280	7.10	75	83%	16.5	54.0			see above
			820	250	25.9	11.8	Solid BC			+ 40% BC									
			1640	500	51.8	23.5	34.6 Ω/km*			Braid									
			3280	1000	103.4	46.9	15.6 Ω/km**			19.0 Ω/km***									
										5.84 mm									
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB									
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m									
				1000-2000 MHz: ≥ 18 dB						Screening Class: B									
1000 m put-up available in Black only.				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 80 N									
PRG7A • Solid 1.2 mm Bare Copper • **Duofoil®** • 40 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • Black PVC Jacket																			
70°C	**PRG7A00**		328	100	9.7	4.4	1.2 mm	0.213	5.40	Duofoil®	0.280	7.10	75	83%	16.5	54.0	5	0.5	1.6
							Solid BC			+ 40% TC							50	1.2	3.9
							39.6 Ω/km*			Braid							100	1.6	5.4
							15.6 Ω/km**			24.0 Ω/km***							230	2.5	8.1
										5.84 mm							400	3.3	10.7
																	800	4.7	15.5
																	862	4.9	16.1
																	1000	5.3	17.5
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB							1350	6.3	20.6
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 39.0 mΩ/m							1750	7.3	23.8
				1000-2000 MHz: ≥ 18 dB						Screening Class: C							2150	8.2	26.8
				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 80 N							2400	8.7	28.6
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**PRG7A01**		3280	1000	147.7	67.0	1.2 mm	0.213	5.40	Duofoil®	0.280	7.10	75	83%	16.5	54.0			see above
							Solid BC			+ 40% TC		x							
							39.6 Ω/km*			Braid		14.00							
							15.6 Ω/km**			24.0 Ω/km***									
										5.84 mm									
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB									
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 39.0 mΩ/m									
				1000-2000 MHz: ≥ 18 dB						Screening Class: C									
3.6 mm ZP messenger				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 3500 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper • ZP = Stranded Zinc-Plated Steel
Duofoil® see technical information page 23.13.

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Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m

Series 6 • Solid 1.02 mm Copper-Covered Steel • **Duobond® II** • 60% Aluminum Braid

Gas-Injected Foam Polyethylene Insulation • Black PVC Jacket

80°C	**9116**	NEC:	U-1000	U-305	30.0	13.6	1.016 mm	0.180	4.57	Duobond® II	0.270	6.86	75	83%	16.2	53.1	5	0.5	1.8
		CATV	1000	305	31.1	14.1	Solid CCS			+ 60% AL							55	1.5	4.8
		CM					121.3 Ω/km*			Braid							240	2.8	9.2
		CEC:					91.9 Ω/km**			29.5 Ω/km***							450	3.9	12.7
		CM								5.4 mm							862	5.5	18.0
																	1000	6.0	19.7
																	1450	7.8	25.6
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB							1800	8.6	28.2
				470-862 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m							2250	9.8	32.2
				862-2150 MHz: ≥ 18 dB						Screening Class: B							3000	11.3	37.1

Series 6 • Solid 1.02 mm Copper-Covered Steel • **Duobond® III** • 60% Aluminum Braid Shield

Gas-Injected Foam Polyethylene Insulation • Black PVC Jacket

80°C	**9118**	NEC:	U-1000	U-305	30.0	13.6	1.016 mm	0.180	4.57	Duobond® III	0.278	7.06	75	83%	16.2	53.1	see above		
		CATV	1000	305	30.0	13.6	Solid CCS			+ 60% AL									
		CM					113.2 Ω/km*			Braid									
		CEC:					91.9 Ω/km**			Duofoil®									
		CM								21.3 Ω/km***									
										5.4 mm									
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB									
				470-862 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m									
U-305 m put-up also available in Beige, White and White Neutral.				862-2150 MHz: ≥ 18 dB						Screening Class: B									

RG6D • Solid 1.0 mm Copper-Covered Steel • **Duobond Plus®** • 50% Tinned Copper Braid

Gas-Injected Polyethylene Insulation • White PVC Jacket

70°C	**RG6D01**		U-820	U-250	27.0	12.3	1.0 mm	0.180	4.57	Duobond	0.272	6.90	75	82%	16.5	54.0	5	0.5	1.8
							Solid CCS			Plus®							50	1.4	4.7
							69.0 Ω/km*			+ 50% TC							100	2.0	6.5
							55.0 Ω/km**			Braid							230	3.0	9.8
										14.0 Ω/km***							400	4.0	13.0
										5.4 mm							800	5.7	18.7
																	862	5.9	19.5
BTQ																	1000	6.4	21.1
																	1350	7.6	24.9
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 100 dB							1750	8.8	28.8
				470-1000 MHz: ≥ 18 dB						Transfer impedance at 5-30 MHz: ≤ 4.5 mΩ/m							2150	9.8	32.3
				1000-2000 MHz: ≥ 16 dB						Screening Class: A							2400	10.5	34.4
				2000-3000 MHz: ≥ 15 dB						Pulling Tension: 570 N							3000	12.0	39.2

Gas-Injected Polyethylene Insulation • White PVC Jacket

70°C	**RG6D00**		U-820	U-250	25.9	11.8	1.0 mm	0.180	4.57	Duobond	0.272	6.90	75	82%	16.5	54.0	see above		
							Solid CCS			Plus®									
							71.0 Ω/km*			+ 40% TC									
							55.0 Ω/km**			Braid									
										16.0 Ω/km***									
										5.4 mm									
BTT																			
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 100 dB									
				470-1000 MHz: ≥ 18 dB						Transfer impedance at 5-30 MHz: ≤ 4.5 mΩ/m									
				1000-2000 MHz: ≥ 16 dB						Screening Class: A									
				2000-3000 MHz: ≥ 15 dB						Pulling Tension: 570 N									

RG6A • Solid 1.0 mm Copper-Covered Steel • **Duofoil®** • 40% Tinned Copper Braid

Gas-Injected Polyethylene Insulation • PVC Jacket (Black or White)

70°C	**RG6A00**		B-328	B-100	10.6	4.8	1.0 mm	0.180	4.57	Duofoil®	0.272	6.90	75	82%	16.5	54.0	see above		
			U-820	U-250	26.5	12.0	Solid CCS			+ 40% TC									
							131.0 Ω/km*			Braid									
							105.0 Ω/km**			26.0 Ω/km***									
										5.3 mm									
BTQ																			
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB									
				470-1000 MHz: ≥ 18 dB						Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m									
B-100 m put-up available in White only. U-250 m put-up available in Black only				1000-2000 MHz: ≥ 16 dB						Screening Class: C									
				2000-3000 MHz: ≥ 15 dB						Pulling Tension: 570 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • AL = Aluminum • CCS = Copper-Covered Steel
Duofoil®, Duobond® II, Duobond® III and Duobond Plus® see technical information page 23.13.

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Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
H126D (RG6) • Solid 1.0 mm Bare Copper • **Duobond Plus®** • 50% Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H126D04**		1640	500	44.1	20.0	1.0 mm Solid BC 37.0 Ω/km* 23.0 Ω/km**	0.180	4.57	Duobond Plus® + 50% TC Braid 14.0 Ω/km*** 5.4 mm	0.272	6.90	75	82%	16.5	54.0	5	0.5	1.8
																	50	1.4	4.7
																	100	2.0	6.5
																	230	3.0	9.8
																	400	4.0	13.0
																	800	5.7	18.7
																	862	5.9	19.5
BTQ																	1000	6.4	21.1
																	1350	7.6	24.9
			Return loss at	5-470 MHz: ≥ 20 dB 470-1000 MHz: ≥ 18 dB 1000-2000 MHz: ≥ 16 dB 2000-3000 MHz: ≥ 15 dB						Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 4.5 mΩ/m Screening Class: A Pulling Tension: 55 N							1750	8.8	28.8
																	2150	9.8	32.3
																	2400	10.5	34.4
																	3000	12.0	39.2
Gas-Injected Polyethylene Insulation • White FRNC/LSNH Jacket																			
70°C	**H126D03**	IEC 332-3	B-328 U-820 1640	B-100 U-250 500	10.8 27.0 54.0	4.9 12.3 24.5	1.0 mm Solid BC 37.0 Ω/km* 23.0 Ω/km**	0.180	4.57	Duobond Plus® + 50% TC Braid 14.0 Ω/km*** 5.4 mm	0.272	6.90	75	82%	16.5	54.0			see above
BTQ																			
			Return loss at	5-470 MHz: ≥ 20 dB 470-1000 MHz: ≥ 18 dB 1000-2000 MHz: ≥ 16 dB 2000-3000 MHz: ≥ 15 dB						Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 4.5 mΩ/m Screening Class: A Pulling Tension: 55 N									
Gas-Injected Polyethylene Insulation • PVC Jacket (Black or White)																			
70°C	**H126D02**		B-328 U-820 1640	B-100 U-250 500	10.8 27.0 54.0	4.9 12.3 24.5	1.0 mm Solid BC 37.0 Ω/km* 23.0 Ω/km**	0.180	4.57	Duobond Plus® + 50% TC Braid 14.0 Ω/km*** 5.4 mm	0.272	6.90	75	82%	16.5	54.0			see above
BTQ																			
			Return loss at	5-470 MHz: ≥ 20 dB 470-1000 MHz: ≥ 18 dB 1000-2000 MHz: ≥ 16 dB 2000-3000 MHz: ≥ 15 dB						Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 4.5 mΩ/m Screening Class: A Pulling Tension: 55 N									
500 m put-up available in Black only.																			
Gas-Injected Polyethylene Insulation • PVC Jacket (Black or White)																			
70°C	**H126D00**		B-328 U-820 1640	B-100 U-250 500	10.4 25.9 51.8	4.7 11.8 23.5	1.0 mm Solid BC 39.0 Ω/km* 23.0 Ω/km**	0.180	4.57	Duobond Plus® + 40% TC Braid 16.0 Ω/km*** 5.4 mm	0.272	6.90	75	82%	16.5	54.0			see above
BTT																			
			Return loss at	5-470 MHz: ≥ 20 dB 470-1000 MHz: ≥ 18 dB 1000-2000 MHz: ≥ 16 dB 2000-3000 MHz: ≥ 15 dB						Screening attenuation at 30-1000 MHz: ≥ 100 dB Transfer impedance at 5-30 MHz: ≤ 4.5 mΩ/m Screening Class: A Pulling Tension: 55 N									
H126A (RG6) • Solid 1.0 mm Bare Copper • **Duofoil®** • 35% Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • PVC Jacket (Black or White)																			
70°C	**H126A00**		B-328 U-820 984 1640	B-100 U-250 300 500	10.6 26.5 31.7 53.5	4.8 12.0 14.4 24.3	1.0 mm Solid BC 49.0 Ω/km* 23.0 Ω/km**	0.180	4.57	Duofoil® + 35% TC Braid 26.0 Ω/km*** 5.25 mm	0.272	6.90	75	82%	16.5	54.0			see above
			Return loss at	5-470 MHz: ≥ 20 dB 470-1000 MHz: ≥ 18 dB 1000-2000 MHz: ≥ 16 dB 2000-3000 MHz: ≥ 15 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m Screening Class: C Pulling Tension: 55 N									
B-100 m put-up available in White only.																			

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper
Duofoil® and Duobond Plus® see technical information page 23.13.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
H126A (RG6) • Solid 1.0 mm Bare Copper • **Duobond® II** • 70% Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H126A03**		656	200	23.4	10.6	1.0 mm	0.180	4.57	Duobond® II	0.272	6.90	75	82%	16.5	54.0	5	0.5	1.8
			U-820	U-250	29.2	13.3	Solid BC			+ 70% TC							50	1.4	4.7
			1640	500	58.4	26.5	40.0 Ω/km*			Braid							100	2.0	6.5
							23.0 Ω/km**			17.0 Ω/km***							230	3.0	9.8
										5.25 mm							400	4.0	13.0
																	800	5.7	18.7
																	862	5.9	19.5
																	1000	6.4	21.1
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB							1350	7.6	24.9
				470-1000 MHz: ≥ 18 dB						Transfer impedance at 5-30 MHz: ≤ 25.0 mΩ/m							1750	8.8	28.8
				1000-2000 MHz: ≥ 16 dB						Screening Class: C							2150	9.8	32.2
				2000-3000 MHz: ≥ 15 dB						Pulling Tension: 55 N							2400	10.5	34.4
																	3000	12.0	39.2
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H126A02**		U-820	U-250	25.9	11.8	1.0 mm	0.180	4.57	Duobond® II	0.272	6.90	75	82%	16.5	54.0			see above
							Solid BC			+ 50% TC									
							45.0 Ω/km*			Braid									
							23.0 Ω/km**			22.0 Ω/km***									
										5.25 mm									
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB									
				470-1000 MHz: ≥ 18 dB						Transfer impedance at 5-30 MHz: ≤ 50.0 mΩ/m									
				1000-2000 MHz: ≥ 16 dB						Screening Class: C									
				2000-3000 MHz: ≥ 15 dB						Pulling Tension: 55 N									
H109C • Solid 1.0 mm Bare Copper • **Copper-Foil** • 55% Bare Copper Braid																			
5-Cell Polyethylene Insulation • PVC Jacket (Black or Brown)																			
70°C	**H109C00**		820	250	27.0	12.3	1.0 mm	0.185	4.70	Cu-foil	0.262	6.65	75	80%	17.1	56.0	5	0.5	1.6
			1640	500	54.0	24.5	Solid BC			+ 55% BC							50	1.4	4.6
			16400	5000	540.1	245.0	41.0 Ω/km*			Braid							100	2.0	6.5
							26.0 Ω/km**			15.0 Ω/km***							230	3.0	9.8
										5.2 mm							400	4.1	13.3
																	800	5.9	19.2
																	862	5.9	19.5
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB							1000	6.6	21.5
				470-1000 MHz: ≥ 18 dB						Transfer impedance at 5-30 MHz: ≤ 10.0 mΩ/m							1750	8.8	29.0
250 m put-up available in Brown only.				1000-2000 MHz: ≥ 16 dB						Screening Class: B							2150	9.9	32.5
500 m put-up available in Black only.				2000-3000 MHz: ≥ 15 dB						Pulling Tension: 55 N							2400	10.6	34.7
5-Cell Polyethylene Insulation • FRNC/LSNH Jacket (Black or White)																			
70°C	**H109C02**	IEC 332-1	820	250	24.8	11.3	1.0 mm	0.185	4.70	Cu-foil	0.262	6.65	75	80%	17.1	56.0			see above
							Solid BC			+ 55% BC									
							41.0 Ω/km*			Braid									
							26.0 Ω/km**			15.0 Ω/km***									
										5.2 mm									
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB									
				470-1000 MHz: ≥ 18 dB						Transfer impedance at 5-30 MHz: ≤ 10.0 mΩ/m									
				1000-2000 MHz: ≥ 16 dB						Screening Class: B									
				2000-3000 MHz: ≥ 15 dB						Pulling Tension: 55 N									
H125C • Solid 1.0 mm Bare Copper • **Copper-Foil** • 40% Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H125C01**		B-328	B-100	8.6	3.9	1.0 mm	0.189	4.80	Cu-foil	0.268	6.80	75	81%	16.8	55.0	5	0.4	1.4
			820	250	21.5	9.8	Solid BC			+ 40% BC							50	1.3	4.3
			1640	500	43.0	19.5	41.0 Ω/km*			Braid							100	1.9	6.1
							23.0 Ω/km**			18.0 Ω/km***							230	2.8	9.2
										5.4 mm							400	3.8	12.3
																	800	5.4	17.7
																	862	5.6	18.4
																	1000	6.1	19.9
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB							1350	7.1	23.4
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m							1750	8.2	27.0
				1000-2000 MHz: ≥ 18 dB						Screening Class: B							2150	9.2	30.2
				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 55 N							2400	9.8	32.1

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper
Duobond® II see technical information page 23.13.

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Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
H125C • Solid 1.0 mm Bare Copper • **Copper-Foil** • 40 % Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Grey FRNC/LSNH Jacket																			
70°C	**H125C04**	IEC 332-1	1640	500	49.6	22.5	1.0 mm Solid BC 41.0 Ω/km* 23.0 Ω/km**	0.189	4.80	Cu-foil + 40 % BC Braid 18.0 Ω/km*** 5.4 mm	0.268	6.80	75	81 %	16.8	55.0	5	0.4	1.4
																	50	1.3	4.3
																	100	1.9	6.1
																	230	2.8	9.2
																	400	3.8	12.3
																	800	5.4	17.7
																	862	5.6	18.4
																	1000	6.1	19.9
																	1350	7.1	23.4
																	1750	8.2	27.0
																	2150	9.2	30.2
																	2400	9.8	32.1
			Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m Screening Class: B Pulling Tension: 55 N									
Gas-Injected Polyethylene Insulation • PVC Jacket (Black, Brown, Crème, Grey or White)																			
70°C	**H125C00**		B-328	B-100	10.4	4.7	1.0 mm Solid BC 41.0 Ω/km* 23.0 Ω/km**	0.189	4.80	Cu-foil + 40 % BC Braid 18.0 Ω/km*** 5.4 mm	0.268	6.80	75	81 %	16.8	55.0	see above		
			820	250	25.9	11.8													
			1640	500	51.8	23.5													
			3280	1000	103.6	47.0													
			Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m Screening Class: B Pulling Tension: 55 N									
Brown, Crème and Grey available in B-100 m only.																			
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H125C03**		820	250	49.1	22.3	1.0 mm Solid BC 41.0 Ω/km* 23.0 Ω/km**	0.189	4.80	Cu-foil + 40 % BC Braid 18.0 Ω/km*** 5.24 mm	0.268 0.531	6.80 13.50	75	81 %	16.8	55.0	see above		
			Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m Screening Class: B Pulling Tension: 55 N									
ShotGun																			
H125A • Solid 1.0 mm Bare Copper • **Duofoil®** • 70 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H125A08**		1640	500	45.2	20.5	1.0 mm Solid BC 41.0 Ω/km* 23.0 Ω/km**	0.189	4.80	Duofoil® + 70 % TC Braid 18.0 Ω/km*** 5.5 mm	0.268	6.80	75	81 %	16.8	55.0	5	0.5	1.8
																	50	1.4	4.7
																	100	2.0	6.5
																	230	3.0	9.8
																	400	3.9	12.9
																	800	5.7	18.6
																	862	5.9	19.3
																	1000	6.4	20.9
			Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m Screening Class: B Pulling Tension: 55 N							1350 1750 2150 2400	7.5 8.7 9.7 10.4	24.6 28.4 31.9 34.0
Gas-Injected Polyethylene Insulation • White FRNC/LSNH Jacket																			
70°C	**H125A07**	IEC 332-1	B-328	B-100	10.8	4.9	1.0 mm Solid BC 41.0 Ω/km* 23.0 Ω/km**	0.189	4.80	Duofoil® + 70 % TC Braid 18.0 Ω/km*** 5.5 mm	0.268	6.80	75	81 %	16.8	55.0	see above		
			1640	500	54.0	24.5													
			Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m Screening Class: B Pulling Tension: 55 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper

Duofoil® see technical information page 23.13.

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Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
H125A • Solid 1.0 mm Bare Copper • **Duofoil®** • 70 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H125A06**		B-328	B-100	10.6	4.8	1.0 mm	0.189	4.80	Duofoil®	0.268	6.80	75	81%	16.8	55.0	5	0.5	1.8
			U-820	U-250	26.5	12.0	Solid BC			+ 70% TC							50	1.4	4.7
			1640	500	52.9	24.0	41.0 Ω/km*			Braid							100	2.0	6.5
							23.0 Ω/km**			18.0 Ω/km***							230	3.0	9.8
										5.5 mm							400	3.9	12.9
																	800	5.7	18.6
																	862	5.9	19.3
																	1000	6.4	20.9
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB							1350	7.5	24.6
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m							1750	8.7	28.4
				1000-2000 MHz: ≥ 18 dB						Screening Class: B							2150	9.7	31.9
				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 55 N							2400	10.4	34.0
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H125A01**		B-328	B-100	8.2	3.7	1.0 mm	0.189	4.80	Duofoil®	0.268	6.80	75	81%	16.8	55.0	see above		
			820	250	20.4	9.3	Solid BC			+ 40% TC									
			1640	500	40.8	18.5	50.0 Ω/km*			Braid									
							23.0 Ω/km**			27.0 Ω/km***									
										5.4 mm									
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB									
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m									
				1000-2000 MHz: ≥ 18 dB						Screening Class: C									
				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 55 N									
Gas-Injected Polyethylene Insulation • Grey FRNC/LSNH Jacket																			
70°C	**H125A03**	IEC 332-1	B-328	B-100	9.3	4.2	1.0 mm	0.189	4.80	Duofoil®	0.268	6.80	75	81%	16.8	55.0	see above		
			1640	500	46.3	21.0	Solid BC			+ 40% TC									
							50.0 Ω/km*			Braid									
							23.0 Ω/km**			27.0 Ω/km***									
										5.4 mm									
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB									
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m									
				1000-2000 MHz: ≥ 18 dB						Screening Class: C									
				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 55 N									
Gas-Injected Polyethylene Insulation • PVC Jacket (Black, Brown, Grey or White)																			
70°C	**H125A00**		B-328	B-100	9.7	4.4	1.0 mm	0.189	4.80	Duofoil®	0.268	6.80	75	81%	16.8	55.0	see above		
			U-820	U-250	24.3	11.0	Solid BC			+ 40% TC									
			1640	500	48.5	22.0	50.0 Ω/km*			Braid									
							23.0 Ω/km**			27.0 Ω/km***									
										5.4 mm									
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB									
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m									
				1000-2000 MHz: ≥ 18 dB						Screening Class: C									
Brown, Crème and Grey available in B-100 m only.				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 55 N									
Gas-Injected Polyethylene Insulation • Black PVC Jacket																			
70°C	**H125A04**		820	250	46.8	21.3	1.0 mm	0.189	4.80	Duofoil®	0.268	6.80	75	81%	16.8	55.0	see above		
							Solid BC			+ 40% TC	0.559	14.20							
							50.0 Ω/km*			Braid									
							23.0 Ω/km**			27.0 Ω/km***									
										5.4 mm									
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB									
				470-1.000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m									
				1000-2000 MHz: ≥ 18 dB						Screening Class: C									
ShotGun				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 55 N									
Gas-Injected Polyethylene Insulation • Black PE Jacket																			
70°C	**H125A02**		1640	500	83.8	38.0	1.0 mm	0.189	4.80	Duofoil®	0.268	6.80	75	81%	16.8	55.0	see above		
							Solid BC			+ 50% TC		x							
							41.0 Ω/km*			Braid		12.00							
							23.0 Ω/km**			18.0 Ω/km***									
										5.4 mm									
			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB									
				470-1000 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m									
				1000-2000 MHz: ≥ 18 dB						Screening Class: B									
4.4 mm ZP messenger				2000-3000 MHz: ≥ 16 dB						Pulling Tension: 3500 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper • ZP = Stranded Zinc-Plated Steel
Duofoil® see technical information page 23.13.

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Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
H125D • Solid 1.0 mm Bare Copper • **Duobond Plus®** • 50% Tinned Copper Shield																			
Gas-Injected Polyethylene Insulation • PE Jacket (Green with White Stripe)																			
70°C	**H125D00**		1640	500	45.2	20.5	1.0 mm Solid BC 37.0 Ω/km* 23.0 Ω/km**	0.189	4.80	Duobond Plus® + 50% TC Braid 14.0 Ω/km*** 5.6 mm	0.280	7.10	75	80%	16.8	55.0	5	0.5	1.7
			3280	1000	90.4	41.0											50	1.4	4.7
																	100	1.9	6.2
																	230	3.0	9.8
																	400	3.9	12.9
																	800	5.7	18.8
																	862	5.9	19.3
																	1000	6.5	21.2
																	1350	7.7	25.1
																	1750	8.8	29.0
																	2150	10.0	32.7
																	2400	10.6	34.8
Shorting Fold																			
BTQ			Return loss at 5-470 MHz: ≥ 23 dB; 470-1000 MHz: ≥ 20 dB; 1000-2000 MHz: ≥ 18 dB; 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 95 dB; Transfer impedance at 5-30 MHz: ≤ 5.0 mΩ/m; Screening Class: A; Pulling Tension: 60 N									
CT100C • Solid 1.0 mm Bare Copper • **Copper-Foil** • 53% Bare Copper Braid																			
5-Cell Polyethylene Insulation • PVC Jacket (Black. Brown and White)																			
70°C	**CT100C0**		328	100	11.5	5.2	1.0 mm Solid BC 41.0 Ω/km* 26.0 Ω/km**	0.185	4.70	Cu-foil + 53% BC Braid 15.0 Ω/km*** 5.35 mm	0.262	6.65	75	82%	16.8	55.0	50	1.5	4.6
			820	250	28.7	13.0											230	3.0	9.8
			1640	500	57.3	26.0											470	4.6	15.0
																	862	5.9	19.5
																	1000	6.6	21.5
																	1750	8.8	29.0
																	2150	9.9	32.5
			Return loss at 5-470 MHz: ≥ 23 dB; 470-1000 MHz: ≥ 20 dB; 1000-2000 MHz: ≥ 18 dB; 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 75 dB; Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m; Screening Class: B; Pulling Tension: 55 N									
500 m put-up available in Black only.																			
5-Cell Polyethylene Insulation • PVC RBS Jacket (Black and White)																			
70°C	**CT100C3**		328	100	11.2	5.1	1.0 mm Solid BC 41.0 Ω/km* 26.0 Ω/km**	0.185	4.70	Cu-foil + 53% BC Braid 15.0 Ω/km*** 5.35 mm	0.262	6.65	75	82%	16.8	55.0			see above
			820	250	28.1	12.8													
			1640	500	56.2	25.5													
			3280	1000	112.4	51.0													
RBS jacket																			
			Return loss at 5-470 MHz: ≥ 23 dB; 470-1000 MHz: ≥ 20 dB; 1000-2000 MHz: ≥ 18 dB; 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 75 dB; Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m; Screening Class: B; Pulling Tension: 55 N									
5-Cell Polyethylene Insulation • Black FRNC/LSNH Jacket																			
70°C	**CT100C1**		3280	1000	116.8	53.0	1.0 mm Solid BC 41.0 Ω/km* 26.0 Ω/km**	0.185	4.70	Cu-foil + 53% BC Braid 15.0 Ω/km*** 5.35 mm	0.262	6.65	75	82%	16.8	55.0			see above
			Return loss at 5-470 MHz: ≥ 23 dB; 470-1000 MHz: ≥ 20 dB; 1000-2000 MHz: ≥ 18 dB; 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 75 dB; Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m; Screening Class: B; Pulling Tension: 55 N									
H124A • Solid 1.0 mm Bare Copper • **Duofoil®** • 31% Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H124A00**		B-328	B-100	6.8	3.1	1.0 mm Solid BC 58.0 Ω/km* 35.0 Ω/km**	0.173	4.40	Duofoil® + 31% TC Braid 23.0 Ω/km*** 5.1 mm	0.232	5.90	75	84%	16.2	53.0	5	0.6	2.0
			U-820	U-250	17.1	7.8											50	1.4	4.5
			1640	500	34.2	15.5											100	2.0	6.4
			16400	5000	341.7	155.0											230	2.9	9.5
																	400	4.1	13.3
																	800	5.9	19.3
																	862	6.0	19.8
																	1000	6.6	21.8
																	1350	7.8	25.7
																	1750	9.1	29.7
																	2150	10.2	33.4
																	2400	10.9	35.6
			Return loss at 5-470 MHz: ≥ 23 dB; 470-1000 MHz: ≥ 20 dB; 1000-2000 MHz: ≥ 18 dB; 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 75 dB; Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m; Screening Class: C; Pulling Tension: 55 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper

Duofoil® and Duobond Plus® see technical information page 23.13.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
H121C • Solid 0.8 mm Bare Copper • **Copper-Foil** • 45 % Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H121C00**		B-328	B-100	6.0	2.7	0.8 mm	0.138	3.50	Cu-foil	0.197	5.00	75	84 %	16.2	53.0	5	0.5	1.7
			1640	500	29.8	13.5	Solid BC			+ 45 % BC							50	1.6	5.3
							59.0 Ω/km*			Braid							100	2.3	7.5
							35.0 Ω/km**			24.0 Ω/km***							230	3.5	11.4
										4.1 mm							400	4.6	15.1
																	800	6.6	21.7
																	862	6.9	22.6
																	1000	7.5	24.5
			Return loss at	5-470 MHz: ≥ 20 dB				Screening attenuation at 30-1000 MHz: ≥ 80 dB									1350	8.8	28.7
				470-1000 MHz: ≥ 18 dB				Transfer impedance at 5-30 MHz: ≤ 10.0 mΩ/m									1750	10.1	33.0
				1000-2000 MHz: ≥ 16 dB				Screening Class: B									2150	11.3	36.9
				2000-3000 MHz: ≥ 15 dB				Pulling Tension: 40 N									2400	12.0	39.2
H121A • Solid 0.8 mm Bare Copper • **Duofoil®** • 75 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H121A03**		B-328	B-100	6.4	2.9	0.8 mm	0.138	3.50	Duofoil®	0.197	5.00	75	84 %	16.2	53.0	5	0.7	2.3
			U-984	U-300	19.2	8.7	Solid BC			+ 75 % TC							50	1.8	5.9
			1640	500	32.0	14.5	55.0 Ω/km*			Braid							100	2.5	8.1
							35.0 Ω/km**			20.0 Ω/km***							230	3.7	12.1
										4.1 mm							400	4.8	15.9
																	800	6.9	22.7
H121B																	862	7.2	23.6
																	1000	7.8	25.6
			Return loss at	5-470 MHz: ≥ 20 dB				Screening attenuation at 30-1000 MHz: ≥ 100 dB									1350	9.1	30.0
				470-1000 MHz: ≥ 18 dB				Transfer impedance at 5-30 MHz: ≤ 4.2 mΩ/m									1750	10.5	34.5
				1000-2000 MHz: ≥ 16 dB				Screening Class: A									2150	11.8	38.6
				2000-3000 MHz: ≥ 15 dB				Pulling Tension: 45 N									2400	12.5	41.0
Gas-Injected Polyethylene Insulation • White FRNC/LSNH Jacket																			
70°C	**H121A04**	IEC 332-1	B-328	B-100	7.3	3.3	0.8 mm	0.138	3.50	Duofoil®	0.197	5.00	75	84 %	16.2	53.0			see above
			1640	500	36.4	16.5	Solid BC			+ 75 % TC									
							55.0 Ω/km*			Braid									
							35.0 Ω/km**			20.0 Ω/km***									
										4.1 mm									
H121B																			
			Return loss at	5-470 MHz: ≥ 20 dB				Screening attenuation at 30-1000 MHz: ≥ 100 dB											
				470-1000 MHz: ≥ 18 dB				Transfer impedance at 5-30 MHz: ≤ 4.2 mΩ/m											
				1000-2000 MHz: ≥ 16 dB				Screening Class: A											
				2000-3000 MHz: ≥ 15 dB				Pulling Tension: 45 N											
H121A • Solid 0.8 mm Bare Copper • **Duofoil®** • 40 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H121A01**		1640	500	22.0	10.0	0.8 mm	0.138	3.50	Duofoil®	0.197	5.00	75	84 %	16.2	53.0			see above
			3280	1000	44.1	20.0	Solid BC			+ 40 % TC									
							75.0 Ω/km*			Braid									
							35.0 Ω/km**			40.0 Ω/km***									
										4.1 mm									
			Return loss at	5-470 MHz: ≥ 20 dB				Screening attenuation at 30-1000 MHz: ≥ 75 dB											
				470-1000 MHz: ≥ 18 dB				Transfer impedance at 5-30 MHz: ≤ 33.0 mΩ/m											
				1000-2000 MHz: ≥ 16 dB				Screening Class: C											
				2000-3000 MHz: ≥ 15 dB				Pulling Tension: 40 N											
Gas-Injected Polyethylene Insulation • PVC Jacket (Black or White)																			
70°C	**H121A00**		B-328	B-100	6.4	2.9	0.8 mm	0.138	3.50	Duofoil®	0.197	5.00	75	84 %	16.2	53.0			see above
			820	250	16.0	7.3	Solid BC			+ 40 % TC									
			1640	500	32.0	14.5	75.0 Ω/km*			Braid									
							35.0 Ω/km**			40.0 Ω/km***									
										4.1 mm									
			Return loss at	5-470 MHz: ≥ 20 dB				Screening attenuation at 30-1000 MHz: ≥ 75 dB											
				470-1000 MHz: ≥ 18 dB				Transfer impedance at 5-30 MHz: ≤ 33.0 mΩ/m											
				1000-2000 MHz: ≥ 16 dB				Screening Class: C											
				2000-3000 MHz: ≥ 15 dB				Pulling Tension: 40 N											

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper
Duofoil® see technical information page 23.13.

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Broadband Coax
Drop Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
H121A • Solid 0.8 mm Bare Copper • **Duofoil®** • 40 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H121A02**	C-328	C-100	11.0	5.0	0.8 mm Solid BC 75.0 Ω/km* 35.0 Ω/km**	0.138	3.50	Duofoil® + 40% TC Braid 40.0 Ω/km*** 4.1 mm	0.197 0.417	5.00 10.60	75	84%	16.2	53.0	5	0.7	2.3
																50	1.8	5.9
																100	2.5	8.1
																230	3.7	12.1
																400	4.8	15.9
																800	6.9	22.7
																862	7.2	23.6
ShotGun		Return loss at 5-470 MHz: ≥ 20 dB; 470-1000 MHz: ≥ 18 dB; 1000-2000 MHz: ≥ 16 dB; 2000-3000 MHz: ≥ 15 dB								Screening attenuation at 30-1000 MHz: ≥ 75 dB; Transfer impedance at 5-30 MHz: ≤ 33.0 mΩ/m; Screening Class: C; Pulling Tension: 40 N							1000	7.8	25.6
																1350	9.1	30.0
																1750	10.5	34.5
																2150	11.8	38.6
																2400	12.5	41.0
H123A • Solid 0.65 mm Bare Copper • **Duofoil®** • 88 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • FRNC/LSNH Jacket (White or Black)																			
70°C	**H123A02**	IEC 332-1 1640	500	30.9	14.0	0.65 mm Solid BC 72.0 Ω/km* 55.0 Ω/km**	0.114	2.90	Duofoil® + 88% TC Braid 17.0 Ω/km*** 3.4 mm	0.169	4.30	75	84%	16.5	54.0	5	0.8	2.7
																50	2.1	7.0
																100	3.0	9.7
																230	4.4	14.5
																400	5.8	19.1
																800	8.3	27.3
																862	8.6	28.3
		Return loss at 5-470 MHz: ≥ 20 dB; 470-1000 MHz: ≥ 18 dB; 1000-2000 MHz: ≥ 16 dB; 2000-3000 MHz: ≥ 15 dB								Screening attenuation at 30-1000 MHz: ≥ 85 dB; Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m; Screening Class: B; Pulling Tension: 33 N							1000	9.3	30.6
																1350	10.9	35.9
																1750	12.6	41.2
																2150	14.0	46.0
																2400	14.9	48.9
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H123A01**	B-328 1640	B-100 500	6.4 32.0	2.9 14.5	0.65 mm Solid BC 72.0 Ω/km* 55.0 Ω/km**	0.114	2.90	Duofoil® + 88% TC Braid 17.0 Ω/km*** 3.4 mm	0.169	4.30	75	84%	16.5	54.0	see above		
		Return loss at 5-470 MHz: ≥ 20 dB; 470-1000 MHz: ≥ 18 dB; 1000-2000 MHz: ≥ 16 dB; 2000-3000 MHz: ≥ 15 dB								Screening attenuation at 30-1000 MHz: ≥ 85 dB; Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m; Screening Class: B; Pulling Tension: 33 N									
Gas-Injected Polyethylene Insulation • PVC Jacket (Black, Blue, Green, Red or White)																			
70°C	**H123A00**	B-328 U-820 1640 26240	B-100 U-250 500 8.000	4.0 9.9 19.8 317.5	1.8 4.5 9.0 144.0	0.65 mm Solid BC 92.0 Ω/km* 55.0 Ω/km**	0.114	2.90	Duofoil® + 44% TC Braid 37.0 Ω/km*** 3.4 mm	0.163	4.15	75	84%	16.5	54.0	see above		
U 250 m and 500 m put-up available in White only.		Return loss at 5-470 MHz: ≥ 20 dB; 470-1000 MHz: ≥ 18 dB; 1000-2000 MHz: ≥ 16 dB; 2000-3000 MHz: ≥ 15 dB								Screening attenuation at 30-1000 MHz: ≥ 75 dB; Transfer impedance at 5-30 MHz: ≤ 37.0 mΩ/m; Screening Class: C; Pulling Tension: 33 N									
H122A • Solid 0.4 mm Copper-Covered Steel • **Duofoil®** • 60 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • White PVC Jacket																			
70°C	**H122A00**	B-328 1640	B-100 500	3.1 15.4	1.4 7.0	0.4 mm Solid CCS 490.0 Ω/km* 450.0 Ω/km**	0.077	1.95	Duofoil® + 60% TC Braid 40.0 Ω/km*** 2.1 mm	0.144	3.65	75	80%	16.8	55.0	5	1.4	4.7
																50	3.4	11.3
																100	4.6	15.3
																230	6.5	21.2
																400	9.1	30.0
																800	13.2	43.3
																862	13.4	43.8
		Return loss at 5-470 MHz: ≥ 20 dB; 470-1000 MHz: ≥ 18 dB; 1000-2000 MHz: ≥ 16 dB; 2000-3000 MHz: ≥ 15 dB								Screening attenuation at 30-1000 MHz: ≥ 85 dB; Transfer impedance at 5-30 MHz: ≤ 25.0 mΩ/m; Screening Class: C; Pulling Tension: 40 N							1000	14.8	48.5
																1350	17.2	56.5
																1750	19.7	64.8
																2150	22.1	72.5
																2400	23.4	76.9

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper • CCS = Copper-Covered Steel

Duofoil® see technical information page 23.13.

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Broadband Coax
Headend Cables

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
20 AWG • Solid 0.8 mm Silver-Plated Copper-Covered Steel • **Duobond Plus®** • 95 % Aluminum Braid																			
Gas-Injected Foam Polyethylene Insulation • PVC Jacket (available in Black, Grey, White, Red, Blue, Yellow, Brown, Orange, Green, Purple, Beige, Pink or Aqua)																			
80°C	**9167**	NEC: CATVR CMR CEC: CMG FT4	1000	305	27.1	12.3	0.81 mm 20 AWG Solid SPCCS 99.4 Ω/km* 84.6 Ω/km**	0.144	3.66	Duobond Plus® + 95 % AL Braid 14.8 Ω/km*** 4.3 mm	0.242	6.15	75	83 %	16.2	53.1	5 50 240 450 862 1000	0.8 1.8 3.6 5.0 7.0 7.7	2.5 6.0 11.7 16.3 22.9 25.2
Shorting Fold																			
Return loss at 5-470 MHz: ≥ 20 dB 470-862 MHz: ≥ 18 dB 862-2150 MHz: ≥ 16 dB										Screening attenuation at 30-1000 MHz: ≥ 85 dB Sweep tested. 5 MHz to 1 GHz.									
23 AWG • Solid 0.6 mm Copper-Covered Steel • 95 % Bare Copper Braid																			
Polyethylene Insulation • Black PVC Jacket																			
70°C	**MRG5900**		328 B-328 B-656 1640 3280	100 B-100 B-200 500 1000	10.1 10.1 20.3 50.7 101.4	4.6 4.6 9.2 23.0 46.0	0.58 mm Solid CCS 94.0 Ω/km* 79.0 Ω/km**	0.146	3.70	95 % BC Braid 15.0 Ω/km*** 4.3 mm	0.242	6.15	75	66 %	20.4	67.0	5 50 100 230 400 800 862 1000 1350 1750 2150	0.9 2.4 3.5 5.2 7.6 11.5 12.0 13.1 15.2 17.4 19.2	2.9 8.0 11.6 17.2 25.0 37.8 39.2 42.9 50.0 57.0 63.0
Return loss at 5-470 MHz: ≥ 20 dB 470-1000 MHz: ≥ 18 dB 1000-2000 MHz: ≥ 16 dB 2000-3000 MHz: ≥ 15 dB										Screening attenuation at 30-1000 MHz: ≥ 65 dB									
23 AWG • Solid 0.6 mm Bare Copper • 92 % Double Tinned Copper Braid																			
Polyethylene Insulation • Black PVC Jacket																			
70°C	**H106T00**		B-328 1640	B-100 500	12.6 62.8	5.7 28.5	0.58 mm Solid BC 97.5 Ω/km* 79.0 Ω/km**	0.146	3.70	92 % TC Braid + 92 % TC Braid 18.5 Ω/km*** 4.9 mm	0.236	6.00	75	66 %	20.4	67.0	5 50 100 230 400 800 862 1000	0.7 2.4 3.5 5.6 7.6 11.5 12.0 13.1	2.4 8.0 11.6 18.3 25.0 37.8 39.2 42.9
Return loss at 5-470 MHz: ≥ 20 dB 470-1000 MHz: ≥ 18 dB										Screening attenuation at 30-1000 MHz: ≥ 75 dB									
Polyethylene Insulation • Grey FRNC Jacket																			
70°C	**H106T01**	IEC 332-1	1640	500	63.9	29.0	0.58 mm Solid BC 97.5 Ω/km* 79.0 Ω/km**	0.146	3.70	92 % TC Braid + 92 % TC Braid 18.5 Ω/km*** 4.9 mm	0.236	6.00	75	66 %	20.4	67.0			see above
Return loss at 5-470 MHz: ≥ 20 dB 470-1000 MHz: ≥ 18 dB										Screening attenuation at 30-1000 MHz: ≥ 75 dB									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper • SPCCS = Silver-Plated Copper-Covered Steel • AL = Aluminum • CCS = Copper-Covered Steel

Duobond Plus® see technical information page 23.13.

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Wireless Coax

Low Loss 50 Ohm Transmission

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
RG174 • 25 AWG • Solid 0.46 mm Bare Copper • **Beldfoil®** • 90% Tinned Copper Braid																			
Polyethylene Insulation • Black PVC Jacket																			
80°C	**7805**		† 100	31	1.8	0.8	0.455 mm	0.061	1.55	Beldfoil®	0.110	2.79	50	66%	31.2	102.4	30	3.8	12.4
RF 100A			500	152	5.5	2.5	25 AWG			+ 90% TC							50	4.9	16.1
			1000	305	9.9	4.5	Solid BC			Braid							150	8.6	28.2
							40.4 Ω/km*			29.9 Ω/km***							220	10.4	34.2
							10.5 Ω/km**			2.15 mm							450	15.2	49.9
																	900	22.0	72.3
																	1500	28.8	94.3
																	1800	31.7	104.0
																	2000	33.4	109.7
																	2500	37.9	124.2
																	3000	42.0	137.8
																	4500	52.3	171.5
			100% Sweep tested. 6 GHz max. VSWR 1.25:1														5800	60.9	199.8
			Mates with standard RG-174 connectors. Suitable for aerial applications when supported by a messenger wire.														6000	62.0	203.3
RG174 • 24 AWG • Solid 0.5 mm Bare Copper • **Beldfoil®** • 93% Tinned Copper Braid																			
Foam HDPE Insulation • Grey PVC Jacket																			
80°C	**7805R**	NEC:	† 100	31	1.8	0.8	0.5 mm	0.060	1.52	Beldfoil®	0.110	2.79	50	73.5%	26.2	86.0	30	3.5	11.5
RF 100LL		CMR	500	152	5.5	2.5	24 AWG			+ 93% TC							50	4.6	15.0
		CEC:	1000	305	9.9	4.5	Solid BC			Braid							150	8.0	26.1
		CMG FT4					124.7 Ω/km*			30.5 Ω/km***							220	9.6	31.6
							94.2 Ω/km**			2.12 mm							450	14.1	46.1
																	900	20.2	66.4
																	1500	26.6	87.3
																	1800	29.5	96.7
																	2000	31.2	102.3
																	2500	35.5	116.3
																	3000	39.4	129.2
																	4500	50.1	164.2
			100% Sweep tested. 6 GHz max. VSWR 1.25:1														5800	59.0	193.6
			Mates with standard RG-174 connectors.														6000	60.6	198.7
RG-58 Type • 19 AWG • Solid 0.9 mm Bare Copper • **Duofoil®** • 90% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**7806A**		500	152	14.6	6.6	0.9 mm	0.110	2.79	Duofoil®	0.195	4.95	50	77%	24.3	79.7	30	2.0	6.6
RF 195			1000	305	22.9	10.4	19 AWG			+ 90% TC							50	2.5	8.2
							Solid BC			Braid							150	4.1	13.3
							38.7 Ω/km*			13.8 Ω/km***							220	4.9	16.1
							24.9 Ω/km**			3.39 mm							450	7.1	23.4
																	900	10.3	33.8
																	1500	13.7	44.8
																	1800	15.2	49.7
																	2000	16.1	52.8
																	2500	18.3	60.1
																	3000	20.5	67.3
																	4500	26.5	86.8
			100% Sweep tested. 6 GHz max. VSWR 1.25:1														5800	31.2	102.4
Available in PVC (7806R)			Mates with standard RG-58 connectors. Suitable for outdoor and direct burial applications.														6000	32.0	105.0
RG-58 Type • 17 AWG • Solid 1.15 mm Bare Copper • **Duofoil®** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**7807A**		500	152	15.0	6.8	1.15 mm	0.116	2.95	Duofoil®	0.195	4.95	50	85%	23.5	77.1	30	1.6	5.4
RF 200			1000	305	24.0	10.9	17 AWG			+ 95% TC							50	2.1	7.0
							Solid BC			Braid							150	3.7	12.1
							24.7 Ω/km*			13.8 Ω/km***							220	4.5	14.6
							10.9 Ω/km**			3.55 mm							450	6.5	21.2
																	900	9.2	30.1
																	1500	12.0	39.2
																	1800	13.2	43.2
																	2000	14.0	45.8
																	2500	15.7	51.6
																	3000	17.5	57.3
																	4500	22.0	72.3
			100% Sweep tested. 6 GHz max. VSWR 1.25:1														5800	25.2	82.7
Available in PVC (7807R)			Mates with standard land mobile radio type connectors. Suitable for outdoor and direct burial applications.														6000	25.9	85.1

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper
† May contain more than one piece. Min. length of any one piece is 7.6 m (25 ft.).
Duofoil® see technical information page 23.13.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Wireless Coax

Low Loss 50 Ohm Transmission

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
RG-8X Type • 15 AWG • Solid 1.45 mm Bare Copper • **Duobond® II** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**7808A**		500	152	18.0	8.2	1.45 mm	0.150	3.81	Duobond® II	0.240	6.10	50	86%	23.0	75.5	30	1.3	4.1
RF 240			1000	305	39.0	17.7	15 AWG			+ 95% TC							50	1.6	5.3
							Solid BC			Braid							150	2.8	9.3
							19.7 Ω/km*			9.2 Ω/km***							220	3.4	11.1
							10.5 Ω/km**			4.41 mm							450	4.9	16.1
																	900	7.0	22.9
																	1500	9.1	30.0
																	1800	10.1	33.2
Available:																	2000	10.7	35.0
7808R - PVC																	2500	12.0	39.5
7808WB - Flooded Water-resistant Polyethylene																	3000	13.4	43.9
																	4500	16.7	54.7
100% Sweep tested. 6 GHz max. VSWR 1.25:1																	5800	19.5	64.0
Mates with standard RG-8X connectors. Suitable for outdoor and direct burial applications.																	6000	19.8	65.0
Intermediate Type • 13 AWG • Solid 1.83 mm Bare Copper • **Duobond® II** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**7809A**		500	152	30.6	13.9	1.83 mm	0.190	4.83	Duobond® II	0.300	7.62	50	86%	23.0	75.5	30	1.0	3.4
RF 300			1000	305	58.0	26.3	13 AWG			+ 95% TC							50	1.3	4.2
							Solid BC			Braid							150	2.2	7.3
							14.7 Ω/km*			7.8 Ω/km***							220	2.7	8.9
							6.9 Ω/km**			5.55 mm							450	3.9	12.9
																	900	5.6	18.3
																	1500	7.3	24.0
																	1800	8.1	26.5
Available:																	2000	8.6	28.2
7809R - PVC																	2500	9.7	31.9
7809WB - Flooded Water-resistant Polyethylene																	3000	10.8	35.4
																	4500	13.5	44.4
100% Sweep tested. 6 GHz max. VSWR 1.25:1																	5800	15.8	51.8
Mates with land mobile radio type connectors. Suitable for outdoor and direct burial applications.																	6000	16.0	52.6
RG-8 Type • 10 AWG • Solid 2.6 mm Bare Copper-Covered Aluminum • **Duobond® II** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**7810A**		500	152	42.5	19.3	2.6 mm	0.285	7.24	Duobond® II	0.403	10.23	50	86%	23.0	75.5	30	0.6	2.1
RF 400			1000	305	86.0	39.0	10 AWG			+ 95% TC							50	0.9	2.8
							Solid BCCA			Braid							150	1.5	4.9
							13.6 Ω/km*			9.2 Ω/km***							220	1.8	6.0
							4.4 Ω/km**			8.11 mm							450	2.7	8.8
																	900	3.8	12.6
																	1500	5.1	16.6
																	1800	5.6	18.5
Available:																	2000	6.0	19.6
7810R - PVC																	2500	6.7	22.0
7810WB - Flooded Water-resistant Polyethylene																	3000	7.4	24.4
																	4500	9.5	31.1
100% Sweep tested. 6 GHz max. VSWR 1.25:1																	5800	11.1	36.4
Mates with 9913 and land mobile radio type connectors. Suitable for outdoor and direct burial applications.																	6000	11.4	37.3

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • BCCA = Bare Copper-Covered Aluminum • TC = Tinned Copper

Duobond® II see technical information page 23.13.

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Wireless Coax

Low Loss 50 Ohm Transmission

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
RF 500 Type • 7 AWG • Solid 3.6 mm Bare Copper-Covered Aluminum • **Duobond® II** • 90% Tinned Copper Braid																			
Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**7976A**		500	152	56.0	25.4	3.6 mm	0.370	9.40	Duobond® II	0.500	12.70	50	84%	25.1	82.4	30	0.5	1.8
			1000	305	108.0	49.0	7 AWG			+ 90% TC							50	0.7	2.4
							Solid BCCA			Braid							150	1.2	3.9
							8.0 Ω/km*			5.3 Ω/km***							220	1.5	4.9
							2.7 Ω/km**			10.45 mm							450	2.2	7.2
																	900	3.2	10.5
																	1500	4.2	13.8
																	1800	4.7	15.4
Available:																	2000	5.0	16.4
7976R - PVC																	2500	5.7	18.7
7976WB - Flooded Water-resistant Polyethylene																	3000	6.3	20.7
																	4500	8.0	26.2
			100% Sweep tested.														5800	9.3	30.5
			Suitable for outdoor applications and aerial applications when supported by a messenger wire.														6000	9.5	31.2
RF 600 Type • 5.5 AWG • Solid 4.47 mm Bare Copper-Covered Aluminum • **Duobond® II** • 85% Tinned Copper Braid																			
Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	**7977A**		500	152	73.6	33.4	4.47 mm	0.455	11.56	Duobond® II	0.590	14.99	50	85%	24.6	80.7	30	0.5	1.5
			1000	305	145.1	65.8	5.5 AWG			+ 85% TC							50	0.6	2.0
							Solid BCCA			Braid							150	1.0	3.2
							7.6 Ω/km*			5.9 Ω/km***							220	1.2	3.9
							1.7 Ω/km**			12.65 mm							450	1.7	5.6
																	900	2.5	8.3
																	1500	3.4	11.2
																	1800	3.8	12.4
																	2000	4.0	13.2
Available:																	2500	4.6	15.0
7977R - PVC																	3000	5.1	16.6
7977WB - Flooded Water-resistant Polyethylene																	3500	5.5	18.2
																	4500	6.4	21.1
			100% Sweep tested. 6 GHz.														5800	7.6	24.8
			Suitable for outdoor applications and aerial applications when supported by a messenger wire.														6000	7.8	25.4

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BCCA = Bare Copper-Covered Aluminum • TC = Tinned Copper

Duobond® II see technical information page 23.13.

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Wireless Coax

50 Ohm Transmission

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
H1000C • Solid 2.6 mm Bare Copper • **Copper-Foil** • 85% Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H1000C3**		1640	500	97.0	44.0	2.62 mm Solid BC 12.3 Ω/km* 3.5 Ω/km**	0.281	7.15	Cu-foil + 85% BC Braid 8.8 Ω/km*** 8.0 mm	0.406	10.30	50	83%	24.4	80.0	5	0.2	0.8
																	50	0.9	2.8
																	100	1.2	4.0
																	230	1.9	6.1
																	400	2.6	8.4
																	800	3.8	12.3
																	862	4.2	13.8
																	1000	4.3	14.0
		Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB							1350	5.1	16.7
																	1750	5.9	19.5
																	2150	6.9	22.5
																	2400	7.2	23.6
Gas-Injected Polyethylene Insulation • Black PVC Jacket																			
70°C	**H1000C0**		C-328	C-100	19.6	8.9	2.62 mm Solid BC 12.3 Ω/km* 3.5 Ω/km**	0.281	7.15	Cu-foil + 50% BC Braid 8.8 Ω/km*** 7.8 mm	0.406	10.30	50	83%	24.4	80.0			see above
			1640	500	98.1	44.5													
			6560	2000	392.4	178.0													
		Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB									
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H1000C1**		C-328	C-100	15.0	6.8	2.62 mm Solid BC 12.3 Ω/km* 3.5 Ω/km**	0.281	7.15	Cu-foil + 50% BC Braid 8.8 Ω/km*** 7.8 mm	0.406	10.30	50	83%	24.4	80.0			see above
			1640	500	75.0	34.0													
			3280	1000	149.9	68.0													
		Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB									
H1001C • Stranded (19x0.54) 2.7 mm Bare Copper • **Copper-Foil** • 50% Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H1001C1**		1640	500	117.9	53.5	2.7 mm (19x0.54) BC 16.5 Ω/km* 4.5 Ω/km**	0.283	7.20	Cu-foil + 50% BC Braid 12.0 Ω/km*** 7.15 mm	0.406	10.30	50	83%	24.4	80.0	5	0.3	1.0
																	50	1.0	3.3
																	100	1.4	4.7
																	230	2.2	7.2
																	400	3.0	9.8
																	800	4.4	14.4
																	862	4.5	14.9
																	1000	5.0	16.3
		Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 100 dB							1350	5.9	19.3
																	1750	6.9	22.5
																	2150	7.7	25.4
																	2400	8.3	27.1
H500C • Solid 2.5 mm Bare Copper • **Copper-Foil** • 50% Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H500C00**		C-328	C-100	23.6	10.7	2.5 mm Solid BC 15.3 Ω/km* 3.8 Ω/km**	0.276	7.00	Cu-foil + 50% BC Braid 11.5 Ω/km*** 7.45 mm	0.386	9.80	50	81%	25.0	82.0	5	0.3	0.9
			820	250	59.0	26.8											50	0.9	2.9
			1640	500	117.9	53.5											100	1.3	4.1
			6560	2000	471.8	214.0											230	2.0	6.5
																	400	2.7	8.7
																	800	3.9	12.9
																	862	4.1	13.4
																	1000	4.5	14.6
		Return loss at	5-470 MHz: ≥ 23 dB 470-1000 MHz: ≥ 20 dB 1000-2000 MHz: ≥ 18 dB 2000-3000 MHz: ≥ 16 dB							Screening attenuation at 30-1000 MHz: ≥ 95 dB							1350	5.3	17.4
																	1750	6.2	20.3
																	2150	7.0	23.0
																	2400	7.5	24.6

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper

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Wireless Coax

50 Ohm Transmission

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
MRG213 • Stranded (7x0.75) 2.25 mm Bare Copper • 92 % Bare Copper Braid																			
Polyethylene Insulation • Black PVC Jacket																			
70°C	**MRG2130**		328	100	29.8	13.5	2.25 mm	0.285	7.25	92% BC	0.406	10.30	50	66%	30.5	100.0	5	0.5	1.5
			820	250	74.4	33.8	(7x0.75) BC			Braid							50	1.4	4.6
			1640	500	148.8	67.5	11.5 Ω/km*			5.5 Ω/km***							100	2.0	6.6
			3280	1000	297.6	135.0	6.0 Ω/km**			8.0 mm							230	3.2	10.4
																	400	4.3	14.1
																	800	6.4	21.1
																	862	6.7	22.1
																	1000	7.3	24.1
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 65 dB							1350	8.8	29.0
				470-1000 MHz: ≥ 18 dB													1750	10.5	34.3
				1000-2000 MHz: ≥ 16 dB													2150	11.9	39.1
				2000-3000 MHz: ≥ 15 dB													2400	12.9	42.4
H155A • Stranded (19x0.28) 1.4 mm Tinned Copper • **Duofoil®** • 80 % Bare Copper Braid																			
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																			
70°C	**H155A01**		B-328	B-100	8.2	3.7	1.41 mm	0.154	3.90	Duofoil®	0.213	5.40	50	80%	25.6	84.0	5	0.8	2.5
			3280	1000	81.6	37.0	(19x0.28) TC			+ 80% TC							50	2.1	6.9
							32.4 Ω/km*			Braid							100	2.8	9.1
							15.4 Ω/km**			17.0 Ω/km***							230	4.1	13.4
										4.5 mm							400	5.5	18.0
																	800	8.0	26.1
																	862	8.3	27.3
																	1000	9.0	29.6
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB							1350	10.6	34.9
				470-1000 MHz: ≥ 18 dB													1750	12.3	40.3
				1000-2000 MHz: ≥ 16 dB													2150	14.0	46.0
				2000-3000 MHz: ≥ 15 dB													2400	15.0	49.1
Gas-Injected Polyethylene Insulation • Grey PVC Jacket																			
70°C	**H155A00**		B-328	B-100	8.2	3.7	1.41 mm	0.154	3.90	Duofoil®	0.213	5.40	50	80%	25.6	84.0			see above
			820	250	20.4	9.3	(19x0.28) TC			+ 80% TC									
			1640	500	40.8	18.5	32.4 Ω/km*			Braid									
			3280	1000	81.6	37.0	15.4 Ω/km**			17.0 Ω/km***									
										4.5 mm									
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 85 dB									
				470-1000 MHz: ≥ 18 dB															
				1000-2000 MHz: ≥ 16 dB															
				2000-3000 MHz: ≥ 15 dB															
MRG58 • Stranded (19x0.18) 0.9 mm Tinned Copper • 93 % Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • PVC Jacket (Black or White)																			
70°C	**MRG5800**		328	100	7.7	3.5	0.91 mm	0.116	2.95	+ 93% TC	0.195	4.95	50	66%	30.5	100.0	5	1.0	3.3
			1640	500	38.6	17.5	(19x0.18) TC			Braid							50	3.2	10.6
							52.0 Ω/km*			16.0 Ω/km***							100	4.6	15.1
							36.0 Ω/km**			3.5 mm							230	7.0	23.1
																	400	9.4	30.7
																	800	13.4	44.1
																	862	14.0	45.8
																	1000	15.1	49.6
			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 65 dB							1350	17.7	58.2
				470-1000 MHz: ≥ 18 dB													1750	20.4	66.8
				1000-2000 MHz: ≥ 16 dB													2150	22.7	74.6
				2000-3000 MHz: ≥ 15 dB													2400	24.1	79.2

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper

Duofoil® see technical information page 23.13.

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Wireless Coax

50 Ohm Microwave Cables

BROADBAND

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
M17/151 Type • 29 AWG • Solid 0.28 mm Silver-Plated Copper-Covered Steel • 100% Copper-Tin Composite Braid																			
TFE Teflon® Insulation • Unjacketed																			
UL AWM Style 10245 (30 V 105°C)	**1674A#**		50	15	0.2	0.1	0.279 mm 29 AWG Solid SPCCS 698.6 Ω/km* 672.4 Ω/km**	0.033	0.85	100% CT Composite Braid 26.2 Ω/km*** 1.19 mm	0.047	1.19	50	69.5%	29.5	96.8	500	25.0	82.0
			100	31	0.4	0.2											1000	36.7	120.3
			500	152	1.9	0.9											2000	53.8	176.5
			1000	305	3.7	1.7											3000	67.3	220.8
																	5000	89.3	292.8
																	7000	107.5	352.6
																	10000	130.9	429.5
																	15000	163.8	537.4
																	18000	181.2	594.3
Available with Silver-Plated Copper CDR (1674B)																	20000	192.1	630.0
RG-405/U Type • 24 AWG • Solid 0.5 mm Silver-Plated Copper-Covered Steel • 100% Copper-Tin Composite Braid																			
TFE Teflon® Insulation • Unjacketed																			
UL AWM Style 10245 (30 V 105°C)	**1671A#**		50	15	2.0	0.9	0.5 mm 24 AWG Solid SPCCS 244.1 Ω/km* 210.6 Ω/km**	0.062	1.57	100% CT Composite Braid 33.5 Ω/km*** 2.16 mm	0.085	2.16	50	69.5%	29.5	96.8	500	15.0	49.2
			100	31	2.4	1.1											1000	22.2	72.8
			† 500	152	7.5	3.4											2000	32.8	107.6
			† 1000	305	14.1	6.4											3000	41.2	135.2
																	5000	54.9	180.0
																	7000	66.4	217.9
Available:																	10000	81.2	266.4
1671J - with PVC jacket (Black or Clear)																	15000	102.0	334.7
1671B - with Silver-Plated Copper, unjacketed																	18000	113.0	370.8
Suitable for outdoor applications.																	20000	120.0	393.7
RG-402/U Type • 19 AWG • Solid 0.9 mm Silver-Plated Copper-Covered Steel • 100% Copper-Tin Composite Braid																			
TFE Teflon® Insulation • Unjacketed																			
UL AWM Style 10245 (30 V 105°C)	**1673A#**		50	15	3.3	1.5	0.9 mm 19 AWG Solid SPCCS 82.1 Ω/km* 67.3 Ω/km**	0.116	2.95	100% CT Composite Braid 14.8 Ω/km*** 4.52 mm	0.138	3.51	50	69.5%	29.5	96.8	500	8.0	26.2
			100	31	4.0	1.8											1000	12.0	39.4
			† 250	76	7.9	3.6											2000	18.1	59.4
			500	152	15.0	6.8											3000	22.9	75.1
																	5000	31.0	101.7
																	7000	37.8	124.0
																	10000	46.6	152.9
Available:																	15000	59.1	193.9
1673J - with PVC jacket (Black or Clear)																	18000	65.8	215.9
1673B - with Silver-Plated Copper, unjacketed																	20000	70.0	229.7
RG-401/U Type • 14 AWG • Solid 1.65 mm Silver-Plated Copper • 100% Copper-Tin Composite Braid																			
TFE Teflon® Insulation • Unjacketed																			
UL AWM Style 10245 (30 V 105°C)	**1675A#**		† 50	15	4.0	1.8	1.65 mm 14 AWG Solid SPC 34.4 Ω/km* 8.2 Ω/km**	0.210	5.33	100% CT Composite Braid 26.2 Ω/km*** 6.25 mm	0.246	6.25	50	69.5%	29.6	97.1	500	3.8	12.5
			†† 100	31	8.1	3.7											1000	4.4	14.4
			†† 250	76	20.3	9.2											2000	6.8	22.3
			†† 500	152	40.6	18.4											3000	10.4	34.1
																	5000	13.4	44.0
																	7000	18.5	60.7
																	10000	22.8	74.8
																	15000	28.4	93.2
																	18000	36.6	120.1
Available with Clear PVC jacket (1675J)																	20000	41.0	134.5

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • CT = Copper-Tin • SPC = Silver-Plated Copper • SPCCS = Silver-Plated Copper-Covered Steel

Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

† 76 m put-up: Exact 3 pieces (maximum), 15 m (50 ft.) minimum length.
152 m put-up: Exact 5 pieces (maximum), 15 m (50 ft.) minimum length.
305 m put-up: Exact 8 pieces (maximum), 15 m (50 ft.) minimum length.

†† May contain more than one piece, minimum length of any one piece is 7.6 m (25 ft.).

Teflon® is a DuPont trademark.

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BELDEN
SENDING ALL THE RIGHT SIGNALS



10 Wireless Solutions

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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

Meets the Need for True Wireless Mobility

Today, we are totally dependent on “network access” to do business, gather information, monitor and analyze the activities around us, and communicate with other systems, networks, and people – all over the world.

While conventional hard-wired networks meet these conventional needs, a new need is developing: the need for mobility. People are no longer willing to be tied to their desks; they can’t afford it.

Current wireless technology does provide a degree of mobility, but it suffers from a major limitation. These networks were designed solely to carry data. They were never intended to simultaneously handle data, multimedia streams, and voice traffic.

This means your mobile network users face various access problems that are a function of the wireless equipment they’re using, the type of information they’re accessing, and their physical location. This is hardly “mobility”.

In an ideal wireless networking world, none of these factors should arise. Everything should be seamless to the user – seamless mobility.

Only Belden’s wireless solution meets this ideal.

The Evolution of Wireless – Local Area Networks

Classic wired LANs were created to provide fast data access from fixed locations. To turn these LANs into Wireless Local Area Network (WLANs), the standard approach has been to replace the fixed user locations – usually a wall- or floor-jack – with a wireless (radio) access point (AP). Each AP serves a physical area, or “cell”.

IEEE Standards 802.11a, 802.11b and 802.11g define wireless signals in terms of radio frequency, data rate, and other characteristics. These standards are the same as those used in a home network, often known as Wi-Fi®. However, when this wireless technology is deployed in a cell-based fashion in large enterprise-wide or campus-wide environments, significant implementation, performance, and management challenges arise. In short, a large-scale, cell-based WLAN is achieved at the expense of performance and complexity.

Foremost among these challenges is the fact that cell-based systems are plagued by co-channel interference, which occurs when two AP cells operating on the same channel transmit at the same time. Such interference is the primary cause of diminished system capacity.

Next, even if you can live with co-channel interference, cell-based systems require personnel with deep RF engineering expertise. They need to perform RF site surveys to determine where to place APs, and they must also play a game of give-and-take to identify just the right balance of channelization, acceptable co-channel interference, transmit power, and unique antenna selection for each AP.

With the Belden wireless solution, all of this RF-related complexity disappears. Enterprises cannot help but be surprised by the elegance and simplicity of this solution. There is no need for RF cell planning. In fact, only a rudimentary understanding of wireless is required. All-the-while, network performance is dramatically improved with seamless mobility, ubiquitous coverage, elimination of co-channel interference, and unmatched system capacity.

Structure

Belden Wireless Solution	Cell-Plan WLAN
AP based	Cell based
Centralized processing	Distributed processing
“Thin” access points	Intelligent access points
Channel blankets	Cells
Channel used to increase capacity	Channel used to extend coverage
Clients associate with the switch	Clients associate with each AP

An Elegant Solution to the Most Difficult WLAN Problems

The Belden wireless solution takes a fresh approach to high-performance wireless networking. It starts by eliminating the basic concepts normally considered the very foundation of wireless networks: RF cells and RF cell planning. Instead, it uses a channel blanket topology in which each radio channel is used everywhere – on every access point – thereby creating blankets of coverage. A centralized Belden wireless switch combined with Belden wireless access points form an elegant solution that avoids the classic problems of cell-based WLANs.

The result: seamless mobility with no security concerns, no roaming latency, no co-channel interference, robust client connections that simply do not drop, and the ability to design for a guaranteed and predictable level of service.

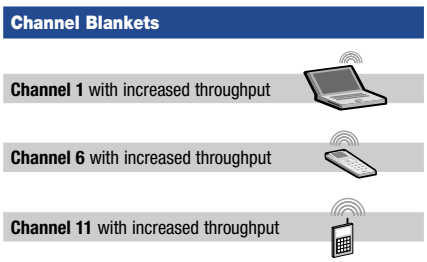
In addition, you can separate the Belden channel blankets to give your IT personnel the unique option of physically segregating different user types (802.11a, b and g), traffic types (voice, data, and video), and roles (private and public zones) onto different channels, thereby guaranteeing quality of service for all users. This is beyond, and in addition to, the traditional way of logically segregating users via VLANs.

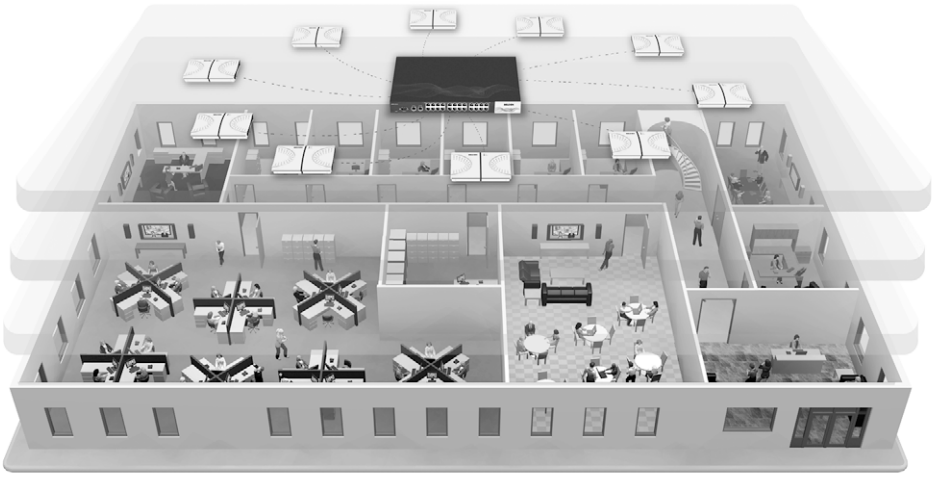
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Introduction

Belden's Network Topology





The Mobility Benefits of Wireless

Belden's wireless solution provides "wire-like" performance and reliability, with full mobility, best-in-class security, and easy management.

Consider the following benefits of the Belden wireless solution.

Easy to Plan

No RF expertise is needed. Using Belden's software planning tool, you simply input the square meter coverage and the desired quality of service, and it will tell you how many APs you need to use and where. Then simply place them as needed. Belden's architecture allows you to space APs as close together as desired, to ensure that your clients always operate at their full communications speed. High bandwidth coverage is complete and ubiquitous.

Easy to Deploy, Validate, and Maintain

Power over ethernet is built into the Belden switch so there's no need for a midspan or endspan device. When it's time to deploy the system, simply place the Belden switch in a central location, configure it, and install the configuration-less APs. No assignment of IP address is needed.

With the Belden wireless solution, validation involves measuring the data rate for each channel in a single pass.

When adds/drops/changes occur, simply add or remove APs as needed. No network reconfiguration or re-planning is needed. Adding or removing an AP has no effect on an existing set-up.

Easy for Users

Users no longer need to consider their proximity to an AP to achieve connectivity. They go wherever they want, secure in the knowledge that their grade of service stays consistent. VoIP users don't need to be concerned with having their calls dropped. And they certainly don't need to be stationary to initiate a call, as some other systems require. In short, users simply go about their work, without having to think about the network at all. The promise of "seamless mobility" is fulfilled.

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Introduction

Delivers the Highest Wireless Performance

Unlike the case of cell-based WLAN systems, Belden's unique architecture yields an enterprise-grade wireless LAN with no trade-offs between coverage, capacity, and mobility. At the same time, a new level of resiliency and flexibility is achieved; one that is physically not available in alternative architectures.
The Belden wireless solution creates extended zones of coverage for every available 802.11a/b/g radio channel, by allowing them to operate from all APs controlled by the Belden switch. In this fully-centralized architecture, the switch makes all of the decisions for packet delivery on the wireless network.

- **Ubiquitous Coverage**
  The Belden switch prevents co-channel interference by ensuring that only non-interfering APs are permitted to transmit simultaneously on the same channel. With the interference headache eliminated, your enterprise is free to deploy as many APs as needed, wherever needed, to deliver the desired grade of service, typically stipulated in terms of data rate to the client. Coverage and (as we shall see below) capacity, are no longer handicapped by the built-in drawbacks of trying to deploy scarce 802.11 channels in a cell-based fashion.

- **Highest Capacity and Bandwidth**
  The Belden solution goes beyond eliminating the classic trade-off between coverage and capacity. It provides the industry's highest capacity and bandwidth and achieves this on multiple levels:

  - Eliminates "Edge Users"
    The freedom of AP placement enables the delivery of a consistent data rate to all clients, everywhere. This automatically eliminates the "edge user" phenomenon that is prevalent in cell-based solutions. An edge user is one that is too far from its associated AP to connect at the highest allowable data rate. Unfortunately, when that edge user transmits, it degrades the overall bandwidth of the entire cell for everybody. In the Belden wireless solution, the absence of cells, a consistent data rate, and bounded rate adaptation means maximum available bandwidth, everywhere, always.

  - Eliminates Client "Bunching"
    With multiple APs able to concurrently receive on the same channels, clients will always be served by the AP that is best able to do so. The client "bunching" effect seen in all cell-based solutions, in which clients overload a strong AP even when there are underutilized adjacent APs, does not exist in the Belden solution. The result is efficient balancing of system traffic and retention of maximum system bandwidth.

  - Highest Capacity Through Layered Blankets
    Since the Belden Solution covers the entire enterprise with overlapping blankets on independent channels, it is possible to multiply the capacity at any given point in the enterprise. In the case of the 2.4 GHz band, this implies that local capacity can be tripled by using all three channels on separate but overlapping blankets. While traditional cell planning uses three channels to provide coverage, Belden uses them to provide capacity.

  - Boosts Total System Bandwidth
    The very nature of a centrally-controlled channel blanket creates micro-uplink domains and the ability to dynamically maximize channel reuse on the downlink, all of which increases total aggregate system bandwidth multiple times over that of alternative systems.

- **Seamless, Zero-latency Mobility**
  Traditional WLAN enables portability, not mobility. The great irony is that wireless may work while the user is stationary, but is seriously impaired by inefficient AP-to-AP handoffs when moving. In the Belden wireless solution, the user associates once with the switch, and then proceeds to move freely within the channel blanket, without ever experiencing inter-AP handoffs. This ensures that communications are never interrupted or disrupted by mobility.

- **Wire-Like Resilient Connectivity**
  The Belden wireless solution is the only WLAN system that introduces the concept of uplink path diversity. Within the channel blanket, multiple APs can simultaneously hear the client's transmission. The switch selects the optimal point of reception for each packet instance. Should anything happen to any one link, the system transparently continues to hear the client through the other available links – without dropping a packet. This makes the system uniquely resistant to AP failures, natural fades in RF signals, and external interferers (a common problem with the unlicensed spectrum of 802.11).

- **A new Level of Quality of Service (QoS)**
  A system's ability to support multiple applications and multiple tenants depends on how well it handles the natural competition between different types of traffic, devices, and users. Voice and data traffic have different tolerances that make co-existence on the same channel a challenge. The backward compatibility of mixed mode 802.11b/g comes at the cost of significantly degraded throughput for all 802.11g devices, when even a small percentage of 802.11b devices are introduced. And different user roles also dictate different treatment – for example, doctors using the WLAN should never be subjected to a shortage of bandwidth due to congestion created by patients and visitors who are working on public networks. The layered channel blanket architecture of the Belden Solution gives IT unprecedented flexibility to dedicate physical channel bandwidth to one type of use over another. The bottom line is a new level of configuration flexibility, never before seen, which enables IT to eliminate, not just mitigate, contention between user and device types.

This is the essence of true triple-play convergence – the data-voice-video holy grail of the WLAN world. Only Belden delivers it. Voice over IP calls don't get dropped due to contention with data transmissions. And separating mission critical users from public users on separate channel blankets ensures that no user "hogs" bandwidth at the expense of others. The result is a seamless coexistence of all applications and user types.

Implementation

Belden Wireless Solution	Cell-Plan WLAN
Design Parameters	
Capacity is the only design criteria	Capacity, coverage, and roaming are competing design criteria
Consider only the number and location of APs	Need to consider number and location of APs Must design for: – Channelization – Transmit power – Antenna type Must predict: – Co-channel interference – Overlap zones – Collision domain sharing
Deployment Activities	
Configure switch only	Configure each AP and switch
One IP for switch only	Assign IP addresses to each AP.
Validation of Design	
Measure performance of each channel in one pass	Measure performance of each AP
	Find overlap zones – measure hand-off effectiveness
	Identify collision domain sharing; aggregate throughput
Adjustment of Design	
Add one or more AP – no configuration or re-planning needed	Re-channelize and re-model

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Wireless Products



BWAP-200

Belden's Wireless Access Points

Belden's BWAP-200 access points are the point-of-network-entry for users of the Belden wireless solution. Elegant in their simplicity, these APs provide a true plug-and-play architecture for implementing large-scale, enterprise-grade WLANs. They are powered from industry-standard PoE (Power over Ethernet – IEEE 802.3af) and they support any off-the-shelf wireless network interface card (NIC).

Belden APs, combined with Belden BWS-8008/BWS-8024 Switches, embody the Belden wireless solution. Using Belden's "Channel Blanket Technology", this wireless LAN provides seamless mobility with no roaming latency, no co-channel interference, and the ability to design for a guaranteed and predictable level of service.

Only the Belden wireless solution combines the mobility of a WLAN with the simplicity of a conventional hard-wired LAN. In fact, only a rudimentary understanding of wireless/radio frequency technology is required.

Belden's APs require no set-up or configuration. These system components are just radios – with no software, no storage, no "smarts". All traffic decisions are made by the centralized 8- or 24-port Belden switch.

Belden's BWAP-200 access points are client agnostic; clients don't associate with any access point. Instead, the APs act as a conduit to rapidly funnel all traffic between switch and client. The net effect is ubiquitous, interference-free coverage, consistent bandwidth, and zero-latency mobility – all with the resilience of a wired connection.

In the Belden wireless solution, when adds, drops and changes occur, simply add or remove APs as needed. No network re-configuration or re-planning is needed. Adding or removing an AP has no effect on an existing set-up.

The Best Performance

Unlike cell-based WLAN systems, the Belden wireless solution yields an enterprise-grade wireless LAN with no trade-offs between coverage, capacity, and mobility.

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Wireless Products

Specifications

WLAN Standards

IEEE 802.11b, 2.4 GHz
(short/long preamble support)

IEEE 802.11g, 2.4 GHz
(pure mode, mixed model)

IEEE 802.11a, 5 GHz
(4.96 homeland security)

Homeland security/public safety 4.9 GHz

Wi-Fi* Collaboration Features (Requires a Belden Switch)

Centralized management and configuration (no configuration in access point)

Centralized authenication and encryption (transparent to AP)

Enhanced Voice over IP (VoIP) support

Spectrum reuse support

Quality of Service (QoS)

Multiple networks

VLAN tagging

SNMP traps to report AP disconnect

Live AP status to switch

Spectrum

Number of simultaneous channels	Up to two, regardless of band (i.e., two 2.4 GHz channels, two 5 GHz channels, or one channel in each band configured to operate concurrently)
Public safety	4.9 - 5 GHz

Available channels	**802.11a****	**802.11b/g****
	5.15-5.25 GHz	2.402-2.472 GHz (U.S.)
	5.25-5.35 GHz	2.402-2.482 GHz (ETSI)
	5.505-5.725 GHz	2.402-2.494 GHz (Japan)
	5.725-5.850 GHz	

Transmission Power (Mean)

802.11a	**802.11b/g**	**802.11g**
18 dBm (max) (limited by local regulation)	17 dBm (max)	15dBm (max)

Supported Rates

802.11a	**802.11b**	**802.11g**
6, 9, 12, 24, 36, 48, 54 Mp/s	1, 2, 5.5, 11 Mp/s	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mp/s

Receive Sensitivity

802.11a	**802.11b/g**	
6 Mp/s: -88 dBm	1 Mp/s: -91 dBm	24 Mp/s: -82 dBm
9 Mp/s: -87 dBm	2 Mp/s: -88 dBm	36 Mp/s: -79 dBm
12 Mp/s: -86 dBm	5.5 Mp/s: -87 dBm	48 Mp/s: -74 dBm
18 Mp/s: -84 dBm	6 Mp/s: -89 dBm	48 Mp/s: -74 dBm
24 Mp/s: -81 dBm	9 Mp/s: -88 dBm	
36 Mp/s: -77 dBm	11 Mp/s: -85 dBm	
48 Mp/s: -73 dBm	12 Mp/s: -87 dBm	
54 Mp/s: -69 dBm	18 Mp/s: -85 dBm	

Regulations Approval

Safety	UL 60950-1 EN 60950-1 IEC 60950-1
EMC	FCC Part 15 class B EN 301 489-1-17 VCCI Technical Requirement, V-3/2001.04
Radio (including modular approval)	FCC Part 15 C FCC Part 15 E EN 300 328 EN 301 893 Japan Type Certificate: Article 2, clause 1

Physical Properties

Dimensions (W x H x D)	195 mm x 125 mm x 45 mm (7.7″ x 4.2″ x 1.8″)
Weight	400 gr/0.88 lbs.
Installation options	Horizontal (desktop) Vertical (wall or ceiling mount)
LEDs	Power LAN Activity 2 x WLAN Activity (2 colors)
Power	PoE (IEEE 802.3af) Power supply (optional): 48VDC

Environmental

Operational	Temperature: 0ºC to 50ºC (32ºF to 122ºF)	Humidity: 0% to 90% non-condensing
Storage	Temperature: -45ºC to +85ºC (-49ºF to 185ºF)	Humidity: 0% to 90%, non-condensing

Ordering Information

BWAP-200	Dual 802.11 a/b/g radios

* Wi-Fi is a registered trade mark of Wi-Fi alliance.

** Available channels limited by local regulations; U.S. has 13 non-overlapping channels

*** Available channels limited by local regulations; U.S. and ETSI have 3 non-overlapping channels, Japan has 4 non-overlapping channels

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Wireless Products



BWS-8008 – 8-port switch
BWS-8024 – 24-port switch

Belden's Heart of WLAN

Belden's BWS-8008 (8-port) and BWS-8024 (24-port) switches are the foundation for the Belden wireless solution: a highly secure, enterprise-grade, high-capacity and campus-wide WLAN. BWS-8008/BWS-8024 switches – and the BWAP-200 access points that they control – make possible Belden's channel blanket technology: a technology that delivers seamless mobility with no security concerns, no roaming latency, no co-channel interference and the ability to design for a guaranteed and predictable level of service.

To achieve this unprecedented level of service, Belden's switches allow the same channel to be transmitted from every AP in the system. By providing centralized control of each channel blanket, the enterprise can tailor the WLAN to support different types of users and applications, concurrently, and without performance trade-offs. Belden's switches also take care of radio-frequency (RF) issues, making RF-related complexity disappear. As a result, only a rudimentary understanding of wireless/RF is needed to implement and maintain the system.

Under Belden's channel blanket architecture, the APs make no decisions on their own. Instead, the switch provides centralized control over all APs, for a network that easily accommodates moves, adds, and changes. Both the 8-port and 24-port versions of the switch can be used alone or with multiple switches, for a wireless LAN that can be easily scaled to meet the needs of a growing organization.

Belden's intelligent switches create a network with the flexibility, simplicity and the performance to support data, video, and voice (VoWLAN) applications in wide-reaching WLAN deployments. With power over ethernet built into the switch, there also is no need for either a midspan or endspan device.

The Best Performance

Unlike cell-based WLAN systems, the Belden wireless solution yields an enterprise-grade, wireless LAN with no trade-offs between coverage, capacity and mobility. Also, it achieves a new level of resiliency and flexibility – one that is not available in alternative architectures.

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Wireless Products

Specifications

Standards	
WLAN	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11i
Ethernet	IEEE 802.3x, full/half duplex IEEE 802.1q, VLAN tagging
Interfaces	
WLAN (APs)	BWS-8008: 8 x 100 BaseT Ethernet with IEEE 802.3af PoE (out of band, 6 wires) BWS-8024: 24 x 100 BaseT Ethernet with IEEE 802.3af PoE (out of band, 6 wires)
LAN (Wired LAN)	BWS-8008: 1 x 100 BaseT Ethernet Port BWS-8024: 2 x 100/1000 BaseT Ethernet Ports (2nd port is for redundancy option)
Wireless Performance	
Channels	Up to 2 simultaneous WLAN channels, regardless of band (i.e., two 2.4 GHz channels, two 5 GHz channels, or one channel in each band)
Capacity	Configurable data rate for each channel (up to 54 Mp/s)
Bandwidth	Triple the aggregate bandwidth of a/b/g channel, for effective data rates of up to 162 Mp/s on a standard channel
Roaming	Intra-switch – 0 mSec, Inter-switch < 50 mSec
Management	
User Interface	Secure web-based Graphical User Interface (GUI)
SNMP	Version 2
Redundancy	Master-to-backup auto fallback
Logging	Remote and local SYSLOG
Upgrades	Firmware upgrade through Web/CLI
Security	
Encryption	802.11i hardware-based encryption including: WEP-64, WEP-128, WPA-TKIP, WPA2-AES (CCMP)
Authentication	RADIUS (802.1x) WPA Pre-Shared Key (PSK) MAC Address-based ACL, EAP, TTS, TTLS, LEAP, PEAP, MD5

Network Names & VLAN	
Network names	16 Network names (SSIDs) per channel
VLANs	4096 Ethernet VLAN, Network name to VLAN mapping
Regulations Approval	
Safety	UL 60950-1, EN 60950-1, IEC 60950-1
EMC	FCC Part 15 Class B, EN 300386, VCCI technical requirements, V-3/2001.04
Physical	
Installation options	Rack mount (19″/0.48 m 1U) and desktop
Dimensions (W x H x D)	BWS-8008: 430 mm x 45 mm x 240 mm (16.9″ x 1.8″ x 9.4″) BWS-8024: 440 mm x 45 mm x 395 mm (17.3″ x 1.7″ x 15.5″)
Weight	BWS-8008: 3 kg/6.6 lbs. BWS-8024: 4.5 kg/9.9 lbs.
LEDs	Power, LAN activity, activity on AP ports
Power	100-240/2A Max PoE to WLAN ports: 15W per port
Environmental	
Operational	Temperature: 0°C to 45°C (32°F to 113°F) Humidity: 0% to 90%, non-condensing
Storage	Temperature: -20°C to +70°C (-4°F to 158°F) Humidity: 0% to 90%, non-condensing
Ordering Information	
BWS-8008 **BWS-8024**	8-port switch 24-port switch

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BELDEN
SENDING ALL THE RIGHT SIGNALS



11 Enclosures and Accessories



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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

Providing All the Right Connections

Belden is the largest company of its kind, combining cables, connectivity, enclosures and many other product solutions for highly technical industries around the globe. As the exclusive occupant in this market position, Belden provides thousands of satisfied customers with over a billion euros worth of trusted solutions every year, much of which supports the commercial networking sector. By combining our expertise in the design and manufacture of cables, connectivity, enclosures and related products, Belden now offers a product line of staggering magnitude, engineering triumphs and rich resources – worldwide.

Belden Enclosures

The complete line of Belden enclosure solutions are designed to meet the unique needs of data networks and control console systems. Whether it's the protection of sensitive data equipment, the ability to mount equipment of varied sizes and depths, or the need to organize and neatly route installed cables, Belden has the solution you need. Belden provides you with single source convenience for all of your cable management requirements.

Enclosures and Racks

Choose from a variety of vertical enclosures, open frame racks and wall mount enclosures, all expertly engineered to optimize product quality and performance. Although standard configurations of the most popular enclosures are offered for fast delivery needs, all custom enclosures and racks have numerous mounting, cable and patch cord management options, along with a variety of accessories. This selection of Belden enclosures and racks will meet virtually any mounting, storage or protection requirement for your application.

Single Sourcing Convenience

The cable management product families in this catalog are offered to cabling professionals for ultimate convenience in single sourcing. As a Belden customer, you also have the assurance of total dependability by working with a market leader and a trusted partner who has a vested interest in optimizing your operations and investments. We want to make sure you not only get the products you need with ease, but they also perform reliably.

Availability

Please contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com for availability.

Freestanding Modular Enclosures

Type	Rack Space	Heights		Panel Mount		Width		Depth	
		inch	m	inch	m	inch	m	inch	m
Data Standard	25, 39, 42, 46U	48, 72, 78, 84	1.21, 1.82, 1.98, 2.13	19 or 23	0.48/0.58	29	0.73	30	0.76
Data Deep	39, 42, 46U	72, 78, 84	1.82, 1.98, 2.13	19 or 23	0.48/0.58	29	0.73	34	0.86
Data Slim	25, 39, 42, 46U	48, 72, 78, 84	1.21, 1.82, 1.98, 2.13	19	0.48	24	0.60	30	0.76
Ultra Server	42U, 45U	78, 84	1.98, 2.13	19	0.48	24	0.60	36	0.86
Ultra Deep Server	45U	84	2.13	19	0.48	24	0.60	42	1.06
Giga Server	45U	84	2.13	19	0.48	26	0.66	42	1.06

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Modular Enclosures

Data Standard Enclosure 29″ Wide x 30″ Deep (0.73 x 0.76 m)

BST-Style Data Standard Enclosure



Data Standard Enclosure

The Data Standard is a freestanding enclosure that easily accommodates large components. The unit's mounting rails can be adjusted, after installation, from 19″ (0.48 m) EIA to 23″ (0.58 m) EIA spacing to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- Reversible doors: Spring-loaded hinges allow quick change of door swing.
- Lift-off side panels: Flush surface lock fasteners permit quick disconnect and lift off.
- Cable gland plate: Adjustable bottom plate minimizes dirt and dust inside the enclosure.
- Cable access top: Features a 14.25″ x 4″ (0.36 x 0.10 m) cable access rubber gland which helps prevent dust from entering the enclosure.
- Rear cable plate: Two, 3-7/8″ x 8-1/2″ (0.07 x 0.02 m) openings for cable access with removable plates and edge grommet kit. Also features two 1.75″ (0.04 m) capped openings.
- Tempered safety glass: Strengthens door and is easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- Grounding kit Included.

Frames



BST 48 BST 72 BST 78 BST 84

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

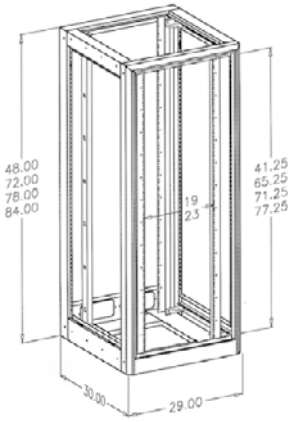
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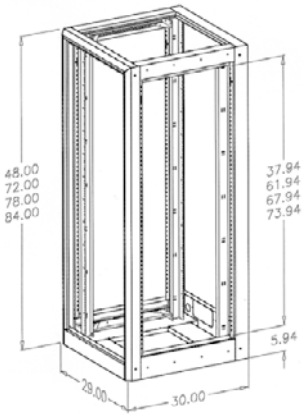
Modular Enclosures

Data Standard Enclosure 29″ Wide x 30″ Deep (0.73 x 0.76 m)
(continued)

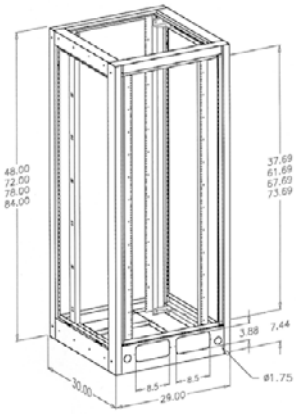
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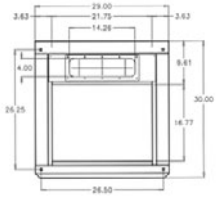
Front



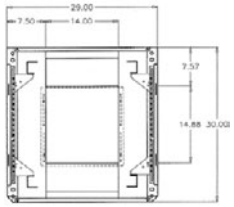
Side



Back



Top



Bottom

Technical Specifications

Enclosure Size		Rack Spaces	Mounting	Weight		Heights		Width		Depth	
				lbs.	kg	inch	m	inch	m	inch	m
BST48	Frame, Grand Plate, Casters & Levelers	25U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	230	105	48	1.21	29	0.73	30	0.76
BST72	Frame, Grand Plate, Casters & Levelers	39U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	325	147	72	1.82	29	0.73	30	0.76
BST78	Frame, Grand Plate, Casters & Levelers	42U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	350	158	78	1.98	29	0.73	30	0.76
BST84	Frame, Grand Plate, Casters & Levelers	46U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	360	163	84	2.13	29	0.73	30	0.76

How to order

BST – ☐ — ☐ — ☐ ☐ ☐ ☐ ☐ ☐

Frame Heigh

48″ (1.21 m)
72″ (1.82 m)
78″ (1.98 m)
84″ (2.13 m)

Mounting

#	Description
1	19″ mounting (0.48 m)
2	23″ mounting (0.58 m)
3	6 mm mounting
0	None
(Frame Mount Shelf Application)	

Front

#	Description
1	Solid
2	Glass
3	Glass Vented
4	Perforated
0	None

Sides

#	Description
1	One Side
2	Two Sides
3	One Side Perforated
4	Two Sides Perforated
0	None

Color

#	Description
1	Blue
2	Beige
3	Black
4	Grey

Top

#	Description
2	10″ Diameter Fan (0.25 m)
3	4″ Diameter Fans (0.10 m)
4	Solid
5	Vented
0	None

Rear

#	Description
1	Solid
2	Vented
3	Filtered
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ (0.48 m) Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ (0.48 m) Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

For Example:

Description	Belden Part Number
Data Standard 84″ (2.13 m) Black, 19″ (0.48 m) Mounting, 10″ (0.25 m) Fan Top, Glass Door, Vented Rear Door, Two Sides, 20 Amp Power Strip	**BST84-3-122226**
Data Standard 84″ (2.13 m) Black Frames w/19″ (0.48 m) Mounting	**BST84-3-100000**

EIA - 310 - D Compliant
These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

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Modular Enclosures

Data Standard Enclosure 29″ Wide x 30″ Deep (0.73 x 0.76 m) *(continued)*

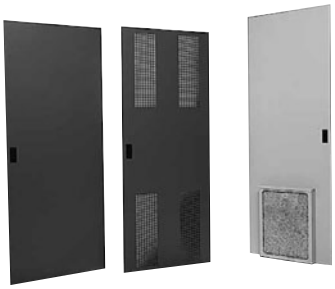
Solid Front Door



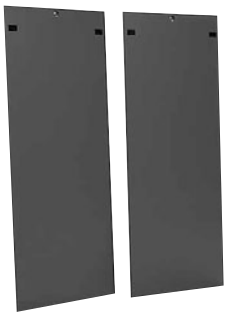
Tempered Glass Front Door



Rear Doors: Solid, Vented, Filtered



Side Panels



Removable Tops



Description	Belden Part Number
Front Doors	
Solid Front Door	
Solid Steel Front Door with Latch and Lock, 48″ (1.21 m)	**B4829-SF-C**
Solid Steel Front Door with Latch and Lock, 72″ (1.82 m)	**B7229-SF-C**
Solid Steel Front Door with Latch and Lock, 78″ (1.98 m)	**B7829-SF-C**
Solid Steel Front Door with Latch and Lock, 84″ (2.13 m)	**B8429-SF-C**
Tempered Glass Front Door	
Tempered Glass Front Door with Latch and Lock, 48″ (1.21 m)	**B4829-GF-C**
Tempered Glass Front Door with Latch and Lock, 72″ (1.82 m)	**B7229-GF-C**
Tempered Glass Front Door with Latch and Lock, 78″ (1.98 m)	**B7829-GF-C**
Tempered Glass Front Door with Latch and Lock, 84″ (2.13 m)	**B8429-GF-C**
Glass Vented Front Door	
Tempered Glass Front Vented Door with Latch and Lock, 48″ (1.21 m)	**B4829-VF-C**
Tempered Glass Front Vented Door with Latch and Lock, 72″ (1.82 m)	**B7229-VF-C**
Tempered Glass Front Vented Door with Latch and Lock, 78″ (1.98 m)	**B7829-VF-C**
Tempered Glass Front Vented Door with Latch and Lock, 84″ (2.13 m)	**B8429-VF-C**
Perforated Front Door	
Perforated Front Door with Latch and Lock, 48″ (1.21 m)	**B4829-PD-C**
Perforated Front Door with Latch and Lock, 72″ (1.82 m)	**B7229-PD-C**
Perforated Front Door with Latch and Lock, 78″ (1.98 m)	**B7829-PD-C**
Perforated Front Door with Latch and Lock, 84″ (2.13 m)	**B8429-PD-C**
Rear Doors	
Solid Rear Door	
Solid Steel Rear Door with Latch and Lock, 48″ (1.21 m)	**B4829-SR-C**
Solid Steel Rear Door with Latch and Lock, 72″ (1.82 m)	**B7229-SR-C**
Solid Steel Rear Door with Latch and Lock, 78″ (1.98 m)	**B7829-SR-C**
Solid Steel Rear Door with Latch and Lock, 84″ (2.13 m)	**B8429-SR-C**
Vented Rear Door	
Vented Steel Rear Door with Latch and Lock, 48″ (1.21 m)	**B4829-VR-C**
Vented Steel Rear Door with Latch and Lock, 72″ (1.82 m)	**B7229-VR-C**
Vented Steel Rear Door with Latch and Lock, 78″ (1.98 m)	**B7829-VR-C**
Vented Steel Rear Door with Latch and Lock, 84″ (2.13 m)	**B8429-VR-C**
Filtered Rear Door	
Filtered Rear Door with Latch and Lock, 48″ (1.21 m)	**B4829-FR-C**
Filtered Rear Door with Latch and Lock, 72″ (1.82 m)	**B7229-FR-C**
Filtered Rear Door with Latch and Lock, 78″ (1.98 m)	**B7829-FR-C**
Filtered Rear Door with Latch and Lock, 84″ (2.13 m)	**B8429-FR-C**
Side Panels	
Single Side Panels	
1-Solid Lift-off Side Panel with Lock, 48″ (1.21 m)	**B4801-SP-C**
1-Solid Lift-off Side Panel with Lock, 72″ (1.82 m)	**B7201-SP-C**
1-Solid Lift-off Side Panel with Lock, 78″ (1.98 m)	**B7801-SP-C**
1-Solid Lift-off Side Panel with Lock, 84″ (2.13 m)	**B8401-SP-C**
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock, 48″ (1.21 m)	**B4802-SP-C**
2-Solid Lift-off Side Panels with Lock, 72″ (1.82 m)	**B7202-SP-C**
2-Solid Lift-off Side Panels with Lock, 78″ (1.98 m)	**B7802-SP-C**
2-Solid Lift-off Side Panels with Lock, 84″ (2.13 m)	**B8402-SP-C**
Removable Tops	
Solid Top	**B2918-TP-1-C**
Vented Top	**B2918-TP-2-C**
Solid Top with 10″ (0.25 m) Diameter Fan, 550 CFM	**B2918-TP-3-C**
Solid Top with (4) 4″ (0.10 m) Diameter Fans, Four Fans = 320 CFM	**B2918-TP-4-C**

These products are in the process of being assessed for RoHS compliance.
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Modular Enclosures

Data Deep Enclosure 29″ Wide x 34″ Deep (0.73 x 0.86 m)

BDP-Style Data Deep Enclosure



Data Deep Enclosure

The Data Deep is a freestanding enclosure that features a 34″ (0.86 m) depth for mounting servers, UPS units, controllers, battery backups, network monitors and more. The unit's mounting rails can be adjusted, after installation, from 19″ (0.48 m) EIA to 23″ (0.58 m) EIA spacing to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- Reversible doors: Spring-loaded hinges allow quick change of door swing.
- Lift-off side panels: Flush surface lock fasteners permit quick disconnect and lift off.
- Cable gland plate: Adjustable bottom plate minimizes dirt and dust inside the enclosure.
- Cable access top: Features a 14.25″ x 4″ (0.36 x 0.10 m) cable access rubber gland which helps prevent dust from entering the enclosure.
- Rear cable plate: Two, 3-7/8″ x 8-1/2″ (0.07 x 0.02 m) openings for cable access with removable plates and edge grommet kit. Also features two 1.75″ (0.04 m) capped openings.
- Tempered safety glass: Strengthens door and is easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- Grounding kit Included.

Frames



BDP 72 BDP 78 BDP 84

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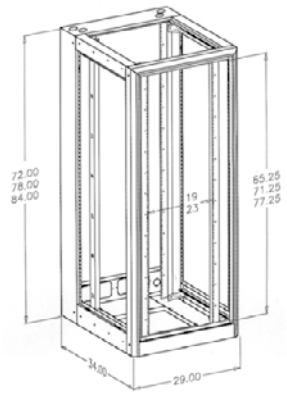
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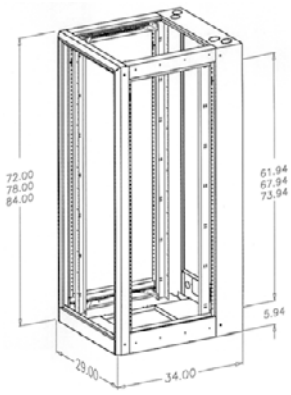
Modular Enclosures

Data Deep Enclosure 29″ Wide x 34″ Deep (0.73 x 0.86 m)
(continued)

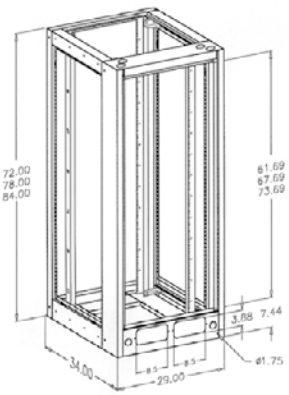
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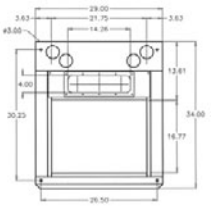
Front



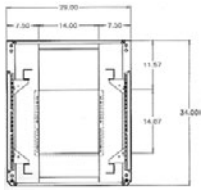
Side



Back



Top



Bottom

Technical Specifications

Enclosure Size	Rack Spaces	Mounting	Weight		Heights		Width		Depth	
			lbs.	kg	inch	m	inch	m	inch	m
BDP72 Frame, Grand Plate, Casters & Levelers	39U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	350	158	72	1.82	29	0.73	34	0.86
BDP78 Frame, Grand Plate, Casters & Levelers	42U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	380	172	78	1.98	29	0.73	34	0.86
BDP84 Frame, Grand Plate, Casters & Levelers	46U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	390	177	84	2.13	29	0.73	34	0.86

How to order

BDP – ☐ — ☐ — ☐ ☐ ☐ ☐ ☐ ☐

Frame Heigh
72″ (1.82 m)
78″ (1.98 m)
84″ (2.13 m)

Mounting	
#	Description
1	19″ mounting (0.48 m)
2	23″ mounting (0.58 m)
3	6 mm mounting
0	None
(Frame Mount Shelf Application)	

Front	
#	Description
1	Solid
2	Glass
3	Glass Vented
4	Perforated
0	None

Sides	
#	Description
1	One Side
2	Two Sides
3	One Side Perforated
4	Two Sides Perforated
0	None

Color	
#	Description
1	Blue
2	Beige
3	Black
4	Grey

Top	
#	Description
2	10″ Diameter Fan (0.25 m)
3	4″ Diameter Fans (0.10 m)
4	Solid
5	Vented
0	None

Rear	
#	Description
1	Solid
2	Vented
3	Filtered
0	None

Power Strips	
#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ (0.48 m) Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ (0.48 m) Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

For Example:

Description	Belden Part Number
Data Standard 84″ (2.13 m) Black, 19″ (0.48 m) Mounting, 10″ (0.25 m) Fan Top, Glass Door, Vented Rear Door, Two Sides, 20 Amp Power Strip	**BDP84-3-122226**
Data Standard 84″ (2.13 m) Black Frames w/19″ (0.48 m) Mounting	**BDP84-3-100000**

EIA - 310 - D Compliant
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Modular Enclosures

Data Deep Enclosure 29″ Wide x 34″ Deep (0.73 x 0.86 m)
(continued)

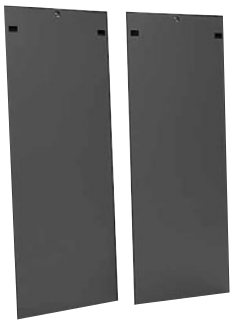
Tempered Glass Front Door



Rear Doors: Solid, Vented, Filtered



Side Panels



Removable Tops



Description	Belden Part Number
Front Doors	
Solid Front Door	
Solid Steel Front Door with Latch and Lock, 72″ (1.82 m)	**B7229-SF-C**
Solid Steel Front Door with Latch and Lock, 78″ (1.98 m)	**B7829-SF-C**
Solid Steel Front Door with Latch and Lock, 84″ (2.13 m)	**B8429-SF-C**
Tempered Glass Front Door	
Tempered Glass Front Door with Latch and Lock, 72″ (1.82 m)	**B7229-GF-C**
Tempered Glass Front Door with Latch and Lock, 78″ (1.98 m)	**B7829-GF-C**
Tempered Glass Front Door with Latch and Lock, 84″ (2.13 m)	**B8429-GF-C**
Glass Vented Front Door	
Tempered Glass Front Vented Door with Latch and Lock, 72″ (1.82 m)	**B7229-VF-C**
Tempered Glass Front Vented Door with Latch and Lock, 78″ (1.98 m)	**B7829-VF-C**
Tempered Glass Front Vented Door with Latch and Lock, 84″ (2.13 m)	**B8429-VF-C**
Perforated Front Door	
Perforated Front Door with Latch and Lock, 72″ (1.82 m)	**B7229-PD-C**
Perforated Front Door with Latch and Lock, 78″ (1.98 m)	**B7829-PD-C**
Perforated Front Door with Latch and Lock, 84″ (2.13 m)	**B8429-PD-C**
Rear Doors	
Solid Rear Door	
Solid Steel Rear Door with Latch and Lock, 72″ (1.82 m)	**B7229-SR-C**
Solid Steel Rear Door with Latch and Lock, 78″ (1.98 m)	**B7829-SR-C**
Solid Steel Rear Door with Latch and Lock, 84″ (2.13 m)	**B8429-SR-C**
Vented Rear Door	
Vented Steel Rear Door with Latch and Lock, 72″ (1.82 m)	**B7229-VR-C**
Vented Steel Rear Door with Latch and Lock, 78″ (1.98 m)	**B7829-VR-C**
Vented Steel Rear Door with Latch and Lock, 84″ (2.13 m)	**B8429-VR-C**
Filtered Rear Door	
Filtered Rear Door with Latch and Lock, 72″ (1.82 m)	**B7229-FR-C**
Filtered Rear Door with Latch and Lock, 78″ (1.98 m)	**B7829-FR-C**
Filtered Rear Door with Latch and Lock, 84″ (2.13 m)	**B8429-FR-C**
Side Panels	
Single Side Panel	
1-Solid Lift-off Side Panel with Lock, 72″ (1.82 m)	**B7201-SP-C**
1-Solid Lift-off Side Panel with Lock, 78″ (1.98 m)	**B7801-SP-C**
1-Solid Lift-off Side Panel with Lock, 84″ (2.13 m)	**B8401-SP-C**
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock, 72″ (1.82 m)	**B7202-SP-C**
2-Solid Lift-off Side Panels with Lock, 78″ (1.98 m)	**B7802-SP-C**
2-Solid Lift-off Side Panels with Lock, 84″ (2.13 m)	**B8402-SP-C**
Removable Tops	
Solid Top	**B2918-TP-1-C**
Vented Top	**B2918-TP-2-C**
Solid Top with 10″ (0.25 m) Diameter Fan, 550 CFM	**B2918-TP-3-C**
Solid Top with (4) 4″ (0.10 m) Diameter Fans, Four Fans = 320 CFM	**B2918-TP-4-C**

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Modular Enclosures

Data Slim Enclosure 24″ Wide x 30″ Deep (0.60 x 0.76 m)

BSL-Style Data Slim Enclosure



Data Slim Enclosure

The Data Slim is a freestanding enclosure with a 24″ (0.60 m) footprint. This makes the enclosure ideal for computer rooms where space is at a premium. The unit's mounting rails have 19″ (0.48 m) EIA spacing to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- Reversible doors: Spring-loaded hinges allow quick change of door swing.
- Lift-off side panels: Flush surface lock fasteners permit quick disconnect and lift off.
- Cable gland plate: Adjustable bottom plate minimizes dirt and dust inside the enclosure.
- Cable access top: Features a 14.25″ x 4″ (0.36 x 0.10 m) cable access rubber gland which helps prevent dust from entering the enclosure.
- Rear cable plate: One, 3-7/8″ x 8-1/2″ (0.07 x 0.02 m) openings for cable access with a removable plate and edge grommet kit. Also features two 1.75″ (0.04 m) capped openings.
- Tempered safety glass: Strengthens door and is easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- Grounding kit Included.

Frames



BSL 48



BSL 72



BSL 78



BSL 84

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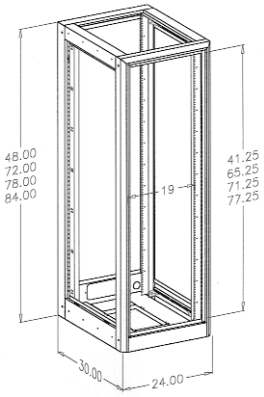
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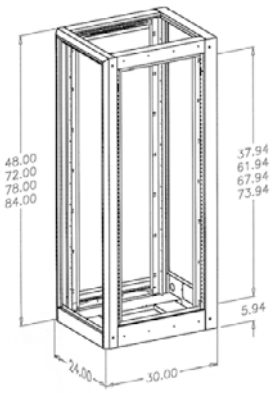
Modular Enclosures

Data Slim Enclosure 24″ Wide x 30″ Deep (0.60 x 0.76 m)
(continued)

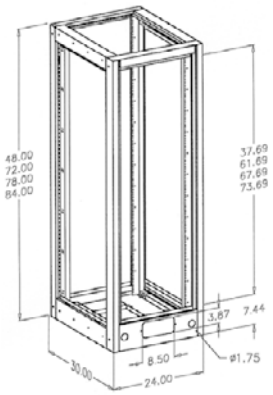
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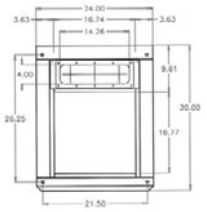
Front



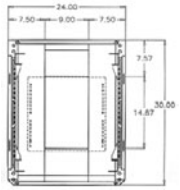
Side



Back



Top



Bottom

Technical Specifications

Enclosure Size		Rack Spaces	Mounting	Weight		Heights		Width		Depth	
				lbs.	kg	inch	m	inch	m	inch	m
BSL48	Frame, 2-pair 19″ (0.48 m) mtg Rails*	25U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	230	105	48	1.21	29	0.73	30	0.76
BSL72	Frame, 2-pair 19″ (0.48 m) mtg Rails*	39U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	325	147	72	1.82	29	0.73	30	0.76
BSL78	Frame, 2-pair 19″ (0.48 m) mtg Rails*	42U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	350	158	78	1.98	29	0.73	30	0.76
BSL84	Frame, 2-pair 19″ (0.48 m) mtg Rails*	46U	19″ (0.48 m), 23″ (0.58 m) or Frame Mount Shelf	360	163	84	2.13	29	0.73	30	0.76

How to order

BSL – ☐ — ☐ — ☐ ☐ ☐ ☐ ☐ ☐

Frame Heigh

48″ (1.21 m)	
72″ (1.82 m)	
78″ (1.98 m)	
84″ (2.13 m)	

Color

#	Description
1	Blue
2	Beige
3	Black
4	Grey

Mounting

#	Description
1	19″ mounting (0.48 m)
3	6 mm mounting

Top

#	Description
2	10″ Diameter Fan (0.25 m)
3	4″ Diameter Fans (0.10 m)
4	Solid
5	Vented
0	None

Front

#	Description
1	Solid
2	Glass
3	Glass Vented
4	Perforated
0	None

Rear

#	Description
1	Solid
2	Vented
3	Filtered
0	None

Sides

#	Description
1	One Side
2	Two Sides
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ (0.48 m) Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ (0.48 m) Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

For Example:

Description	Belden Part Number
Data Standard 84″ (2.13 m) Black, 19″ (0.48 m) Mounting, 10″ (0.25 m) Fan Top, Glass Door, Vented Rear Door, Two Sides, 20 Amp Power Strip	**BSL84-3-122226**
Data Standard 84″ (2.13 m) Black Frames w/19″ (0.48 m) Mounting	**BSL84-3-100000**

* = Casters & Levelers • EIA - 310 - D Compliant
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Modular Enclosures

Data Slim Enclosure 24″ Wide x 30″ Deep (0.60 x 0.76 m) *(continued)*

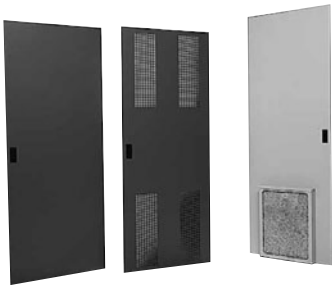
Solid Front Door



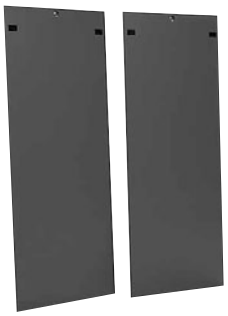
Tempered Glass Front Door



Rear Doors: Solid, Vented, Filtered



Side Panels



Removable Tops



Description	Belden Part Number
Front Doors	
Solid Front Door	
Solid Steel Front Door with Latch and Lock, 48″ (1.21 m)	**B4824-SF-C**
Solid Steel Front Door with Latch and Lock, 72″ (1.82 m)	**B7224-SF-C**
Solid Steel Front Door with Latch and Lock, 78″ (1.98 m)	**B7824-SF-C**
Solid Steel Front Door with Latch and Lock, 84″ (2.13 m)	**B8424-SF-C**
Tempered Glass Front Door	
Tempered Glass Front Door with Latch and Lock, 48″ (1.21 m)	**B4824-GF-C**
Tempered Glass Front Door with Latch and Lock, 72″ (1.82 m)	**B7224-GF-C**
Tempered Glass Front Door with Latch and Lock, 78″ (1.98 m)	**B7824-GF-C**
Tempered Glass Front Door with Latch and Lock, 84″ (2.13 m)	**B8424-GF-C**
Glass Vented Front Door	
Tempered Glass Front Vented Door with Latch and Lock, 48″ (1.21 m)	**B4824-VF-C**
Tempered Glass Front Vented Door with Latch and Lock, 72″ (1.82 m)	**B7224-VF-C**
Tempered Glass Front Vented Door with Latch and Lock, 78″ (1.98 m)	**B7824-VF-C**
Tempered Glass Front Vented Door with Latch and Lock, 84″ (2.13 m)	**B8424-VF-C**
Perforated Front Door	
Perforated Front Door with Latch and Lock, 48″ (1.21 m)	**B4824-PD-C**
Perforated Front Door with Latch and Lock, 72″ (1.82 m)	**B7224-PD-C**
Perforated Front Door with Latch and Lock, 78″ (1.98 m)	**B7824-PD-C**
Perforated Front Door with Latch and Lock, 84″ (2.13 m)	**B8424-PD-C**
Rear Doors	
Solid Rear Door	
Solid Steel Rear Door with Latch and Lock, 48″ (1.21 m)	**B4824-SR-C**
Solid Steel Rear Door with Latch and Lock, 72″ (1.82 m)	**B7224-SR-C**
Solid Steel Rear Door with Latch and Lock, 78″ (1.98 m)	**B7824-SR-C**
Solid Steel Rear Door with Latch and Lock, 84″ (2.13 m)	**B8424-SR-C**
Vented Rear Door	
Vented Steel Rear Door with Latch and Lock, 48″ (1.21 m)	**B4824-VR-C**
Vented Steel Rear Door with Latch and Lock, 72″ (1.82 m)	**B7224-VR-C**
Vented Steel Rear Door with Latch and Lock, 78″ (1.98 m)	**B7824-VR-C**
Vented Steel Rear Door with Latch and Lock, 84″ (2.13 m)	**B8424-VR-C**
Filtered Rear Door	
Filtered Rear Door with Latch and Lock, 48″ (1.21 m)	**B4824-FR-C**
Filtered Rear Door with Latch and Lock, 72″ (1.82 m)	**B7224-FR-C**
Filtered Rear Door with Latch and Lock, 78″ (1.98 m)	**B7824-FR-C**
Filtered Rear Door with Latch and Lock, 84″ (2.13 m)	**B8424-FR-C**
Side Panels	
Single Side Panels	
1-Solid Lift-off Side Panel with Lock, 48″ (1.21 m)	**B4801-SP-C**
1-Solid Lift-off Side Panel with Lock, 72″ (1.82 m)	**B7201-SP-C**
1-Solid Lift-off Side Panel with Lock, 78″ (1.98 m)	**B7801-SP-C**
1-Solid Lift-off Side Panel with Lock, 84″ (2.13 m)	**B8401-SP-C**
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock, 48″ (1.21 m)	**B4802-SP-C**
2-Solid Lift-off Side Panels with Lock, 72″ (1.82 m)	**B7202-SP-C**
2-Solid Lift-off Side Panels with Lock, 78″ (1.98 m)	**B7802-SP-C**
2-Solid Lift-off Side Panels with Lock, 84″ (2.13 m)	**B8402-SP-C**
Removable Tops	
Solid Top	**B2418-TP-1-C**
Vented Top	**B2418-TP-2-C**
Solid Top with 10″ (0.25 m) Diameter Fan, 550 CFM	**B2418-TP-3-C**
Solid Top with (4) 4″ (0.10 m) Diameter Fans, Four Fans = 320 CFM	**B2418-TP-4-C**

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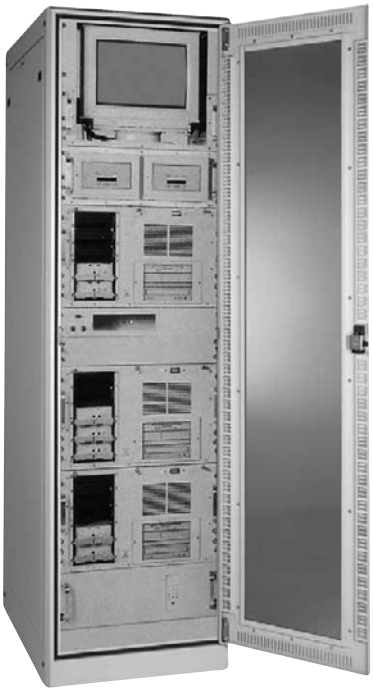
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Modular Enclosures

Ultra Server Enclosure 24″ Wide x 36″ Deep (0.60 x 0.91 m)

BUS-Style Ultra Server Enclosure



Ultra Server Enclosure

The Ultra Server is a freestanding enclosure with a 24″ (0.58 m) wide x 36″ (0.91 m) deep footprint. The enclosure features numerous top and bottom entry points for easy configuration to match your needs and an anti-tip device to prevent the enclosure from tipping when servers and shelves are extended. The unit's mounting rails have 19″ (0.48 m) EIA spacing to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- Reversible doors: Spring-loaded hinges allow quick change of door swing.
- Lift-off side panels: Flush surface lock fasteners permit quick disconnect and lift off.
- Door and side panel security: Doors and side panels lock; handles are flush mounted.
- Cable access top: Features a 14.25″ x 4″ (0.36 x 0.10 m) cable access rubber gland which helps prevent dust from entering the enclosure.
- Tempered safety glass: Strengthens door and is easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- Grounding kit Included.

Frames



BUS 78 BUS 84

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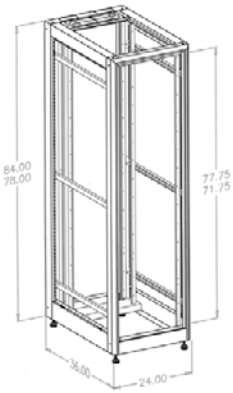
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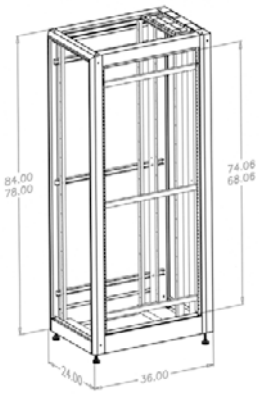
Modular Enclosures

Ultra Server Enclosure 24″ Wide x 36″ Deep (0.60 x 0.91 m)
(continued)

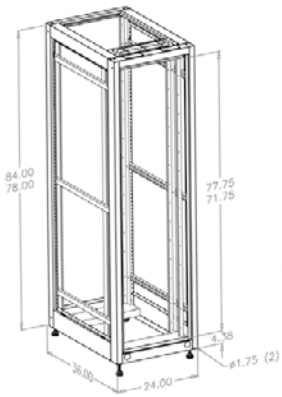
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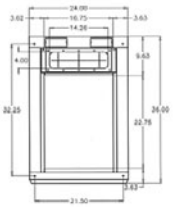
Front



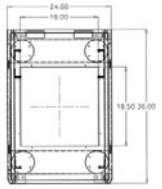
Side



Back



Top



Bottom

Technical Specifications

Enclosure Size	Rack Spaces	Mounting	Weight		Heights		Width		Depth	
			lbs.	kg	inch	m	inch	m	inch	m
BUS78 Frame, 3-pair 19″ (0.48 m) mtg Rails*	42U	19″ (0.48 m)	350	158	78	1.98	24	0.60	36	0.91
BUS84 Frame, 3-pair 19″ (0.48 m) mtg Rails*	45U	19″ (0.48 m)	370	167	84	2.13	24	0.60	36	0.91

How to order

BUS – ☐ — ☐ — **1** ☐ ☐ ☐ ☐ ☐

Frame Heigh

78″ (1.98 m)	
84″ (2.13 m)	

Color

#	Description
2	Beige
3	Black

Mounting

#	Description
1	19″ (0.48 m) 6 mm - 3 pr.

Top

#	Description
1	Perforated
2	10″ Diameter Fan (0.25 m)
3	4″ Diameter Fans (0.10 m)
4	Solid
0	None

Front

#	Description
1	Glass Vented Slam
2	Perforated Slam
3	Glass Vented Swing
4	Perforated Swing
5	Rigid Perf Swing
6	Split Perf Swing
0	None

Rear

#	Description
1	Glass Vented Slam
2	Perforated Slam
3	Glass Vented Swing
4	Perforated Swing
5	Rigid Perf Swing
6	Split Perf Swing
0	None

Sides

#	Description
1	One Side
2	Two Sides
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ (0.48 m) Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ (0.48 m) Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

For Example:

Description	Belden Part Number
Ultra Server 84″ (2.13 m) Black, 19″ (0.48 m) Mounting, 10″ (0.25 m) Fan Top, Perforated Slam Front and Rear Door, 2 Sides, 20 Amp Power Strip	**BUS84-3-122226**
Ultra Server 84″ (2.13 m) Black Frames w/19″ (0.48 m) Mounting	**BUS84-3-100000**

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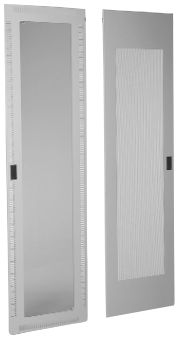
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Modular Enclosures

Ultra Server Enclosure 24″ Wide x 36″ Deep (0.60 x 0.91 m) *(continued)*

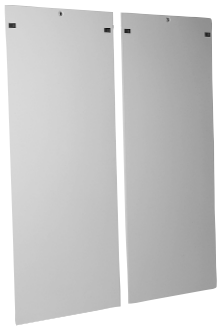
Tempered Glass Vented Doors



Perforated Doors



Side Panels



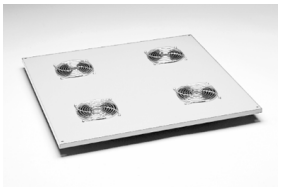
Description	Belden Part Number
Front Door	
Tempered Glass Vented Doors	
Tempered Glass Front/Rear Door with Latch and Lock, 78″ (1.98 m)	**B7824-SVF-C**
Tempered Glass Front/Rear Door with Latch and Lock, 84″ (2.13 m)	**B8424-SVF-C**
Perforated Door	
Perforated Front/Rear Door with Latch and Lock, 78″ (1.98 m)	**B7824-SPR-C**
Perforated Front/Rear Door with Latch and Lock, 84″ (2.13 m)	**B8424-SPR-C**
Side Panels	
Single Side Panel	
1-Solid Lift-off Side Panel with Lock, 78″ (1.98 m)	**B7836-01-SP-C**
1-Solid Lift-off Side Panel with Lock, 84″ (2.13 m)	**B8436-01-SP-C**
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock, 78″ (1.98 m)	**B7836-02-SP-C**
2-Solid Lift-off Side Panels with Lock, 84″ (2.13 m)	**B8436-02-SP-C**
Removable Tops/Cooling Devices	
Solid Top	**B2430-TP-1-C**
Solid Top with 10″ (0.25 m) Diameter Fan, 550 CFM	**B2430-TP-3-C**
Solid Top with (4) 4″ (0.10 m) Diameter Fans, Four Fans = 320 CFM	**B2430-TP-4-C**
Perforated Top	**B2430-TP-6-C**
19″ (0.48 m) Fan Tray	**B9315-7200**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Solid Removable Top w/10″ Fan (0.25 m)



Solid Removable Top w/(4) 4″ Fans (0.10 m)



19″ Fan Tray (0.48 m)



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Modular Enclosures

Ultra Deep Server Enclosure 24″ Wide x 42″ Deep (0.60 x 1.06 m)

BUSD-Style Ultra Deep Server Enclosure



Ultra Deep Server Enclosure

The Ultra Deep Server is a freestanding enclosure with a 24″ (0.60 m) wide x 42″ (1.06 m) deep footprint. The enclosure features numerous top and bottom entry points for easy configuration to match your needs and an anti-tip device to prevent the enclosure from tipping when servers and shelves are extended. Among the many features and benefits of this modular unit are:

- Reversible doors: Spring-loaded hinges allow quick change of door swing.
- Split rear doors: French-style perforated rear doors maximize space between enclosures.
- Lift-off side panels: Flush surface lock fasteners permit quick disconnect and lift off.
- Door and side panel security: Doors and side panels lock; handles are flush mounted.
- Cable access top: Features a 14.25″ x 4″ (0.36 x 0.10 m) cable access rubber gland which helps prevent dust from entering the enclosure.
- Tempered safety glass: Strengthens door and is easy-to-clean, non-scratching, tinted bronze color enhances overall appearance.
- Grounding kit Included.

Frames



BUSD 84

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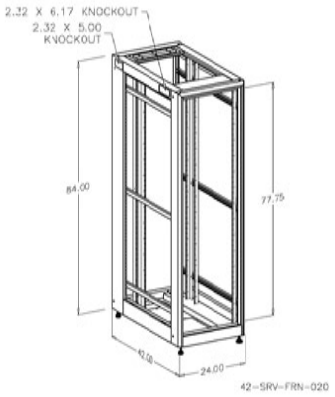
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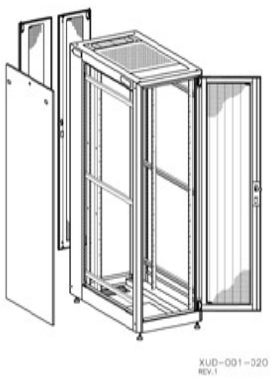
Modular Enclosures

Ultra Deep Server Enclosure 24″ Wide x 42″ Deep (0.60 x 1.06 m)
(continued)

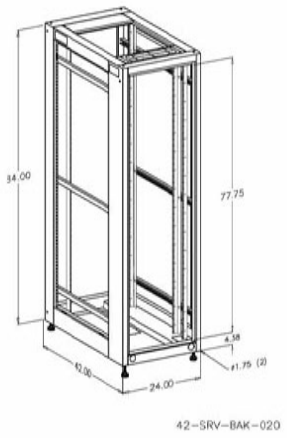
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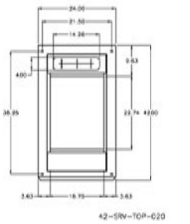
Front



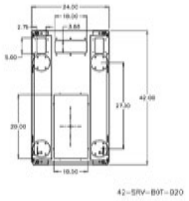
Side



Back



Top



Bottom

Technical Specifications

Enclosure Size	Rack Spaces	Mounting	Weight		Heights		Width		Depth	
			lbs.	kg	inch	m	inch	m	inch	m
BUSD84 Frame, 3-pair 19″ (0.48 m) mtg Rails*	45U	19″ (0.48 m)	400	181	84	2.13	24	0.60	42	1.06

How to order

BUSD – **84** — [ ] — **1** [ ] [ ] [ ] [ ] [ ]

Frame Heigh

84″ (2.13 m)	

Color

#	Description
2	Beige
3	Black

Mounting

#	Description
1	19″ (0.48 m) 6 mm - 3 pr.

Top

#	Description
1	Perforated
2	10″ Diameter Fan (0.25 m)
3	4″ Diameter Fans (0.10 m)
4	Solid
0	None

Front

#	Description
1	Glass Vented Swing
2	Rigid Perf Swing
3	Split Perf Swing
4	Glass Vented Slam
5	Perforated Slam
0	None

Rear

#	Description
1	Rigid Perf Swing
2	Split Perf Swing
3	Perforated Swing
4	Glass Vented Swing
5	Glass Vented Slam
6	Perforated Slam
0	None

Sides

#	Description
1	One Side Solid
2	Two Sides Solid
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ (0.48 m) Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ (0.48 m) Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord

For Example:

Description	Belden Part Number
Ultra Deep 84″ (2.13 m) Black, 19″ (0.48 m) Mounting, 10″ (0.25 m) Fan Top, Front Rigid Perforated Door, Rear Split Perforated Door, Two Sides, 20 Amp Power Strip	**BUSD84-3-122226**
Ultra Server 84″ (2.13 m) Black Frames with 19″ (0.48 m) Mounting	**BUSD84-3-100000**

* = Casters & Levelers • EIA - 310 - D Compliant
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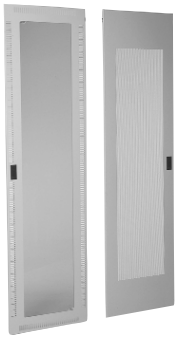
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Modular Enclosures

Ultra Deep Server Enclosure 24″ Wide x 42″ Deep (0.60 x 1.06 m) *(continued)*

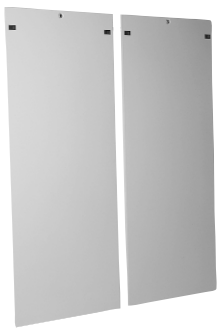
Tempered Glass Vented Doors



Perforated Doors



Side Panels



Description	Belden Part Number
Front Door	
Tempered Glass Front Door	
Tempered Glass Front (Vented) Door with Swing Handle, Latch and Lock	**B8424-DSVF-C**
Rigid Perforated Front Door	
Rigid Perforated Front Door with Swing Handle, Latch and Lock	**B8424-DSPR-C**
Rear Door	
Perforated Rear Door	
Split Door with Swing Handle, Latch and Lock	**B8424-DSSR-C**
Rigid Door with Swing Handle, Latch and Lock	**B8424-DSPR-C**
Door with Swing Handle, Latch and Lock	**B8424-DSVR-C**
Side Panels	
Single Side Panel	
1-Solid Lift-off Side Panel with Lock	**B8436-01-SP-C**
1-Perforated Lift-off Side Panel with Lock	**B8436-01-SPP-C**
Pair of Side Panels	
2-Solid Lift-off Side Panels with Lock	**B8436-02-SP-C**
2-Perforated Lift-off Side Panels with Lock	**B8436-02-SPP-C**
Removable Tops/Cooling Devices	
Solid Top	**B2430-TP-1-C**
Solid Top with 10″ (0.25 m) Diameter Fan, 550 CFM	**B2430-TP-3-C**
Solid Top with (4) 4″ (0.10 m) Diameter Fans, Four Fans = 320 CFM	**B2430-TP-4-C**
Perforated Top	**B2430-TP-6-C**
19″ (0.48 m) Fan Tray	**B9315-7200**
Cable Management Troughs	
76.5″ (1.93 m) Steel Vertical Cable Trough	**B433-5114**
Steel Front Horizontal Cable Trough	**B433-5115-F**
Steel Rear Horizontal Cable Trough	**B433-5115-R**
Steel Side Horizontal Cable Trough	**B433-5118**

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Solid Removable Top w/10″ Fan (0.25 m)



Solid Removable Top w/(4) 4″ Fans (0.10 m)



19″ Fan Tray (0.48 m)



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Modular Enclosures

Giga Server Enclosure 26″ Wide x 42″ Deep (0.66 x 1.06 m)

BGS-Style Giga Server Enclosure



Giga Server Enclosure

The Giga Server is a freestanding enclosure with a 26″ (0.66 m) wide x 42″ (1.06 m) deep footprint. Each of the four corners of the enclosure has a built-in vertical cable channel. The unit's mounting rails have 19″ (0.48 m) EIA spacing to allow for cable management and different depths of equipment. Hinged cable access panels allow for large bundles of cable to be quickly routed from enclosure to enclosure or from the front of the enclosure to the rear of the enclosure. Among the many features and benefits of this modular unit are:

- Reversible door: Spring-loaded hinges allow quick change of door swing.
- Split rear doors: French-style perforated rear doors maximize space between enclosures.
- Lift-off side panels: Flush surface lock fasteners permit quick disconnect lift off.
- Door and side panel security: Doors and side panels lock; handles are flush mounted.
- Integrated cable management.
- Grounding kit included.

Frames



BGS 84

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Please check our website for the most current RoHS status.

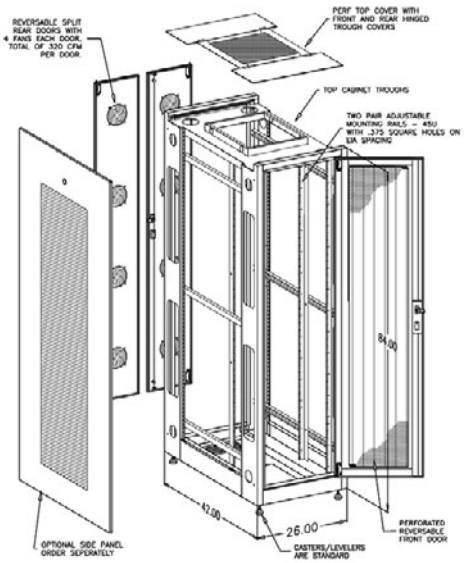
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Modular Enclosures

Giga Server Enclosure 26″ Wide x 42″ Deep (0.66 x 1.06 m)
(continued)

Dimensions



Side

Technical Specifications

Enclosure Size	Rack Spaces	Mounting	Weight		Heights		Width		Depth	
			lbs.	kg	inch	m	inch	m	inch	m
BGS84 84″ Frame, 3-pr. 19″ (0.48 m) mtg Rails*	45U	19″ (0.48 m)	400	181	84	2.13	26	0.66	42	1.06

How to order

BGS – **84** — **3** — **1** — ☐ ☐ ☐ ☐ ☐

Frame Heigh
84″ (2.13 m)

Color

#	Description
3	Black

Mounting

#	Description
1	19″ (0.48 m) 6 mm - 3 pr.

Top

#	Description
1	Perforated
0	None

Front

#	Description
1	Rigid Perforated
0	None

Rear

#	Description
2	Split Perf Swing
3	Perforated Swing
0	None

Sides

#	Description
1	One Side Solid
2	Two Sides Solid
3	One Side Perforated
4	Two Sides Perforated
0	None

Power Strips

#	Description
2	4′ 16 Outlet Surge Suppressor, 15′ Cord
3	2′ 8 Outlet 15 Amp/15′ Cord
4	19″ (0.48 m) Rack Mount 6 Outlet (Rear) 15 Amp/15′ Cord
5	19″ (0.48 m) Rack Mount 6 Outlet (Rear) Surge Suppressor, 15 Amp/15′ Cord
6	4′ 16 Outlet Surge Suppressor 20 Amp/15′ Cord
0	None

For Example:

Description	Belden Part Number
Giga Server 84″ (2.13 m) Black, 3-pair 19″ (0.48 m) Mounting, Perforated Top, Rigid Perforated Front, Split Fan Doors, Two Perforated Sides, 20 Amp Power Strip	**BGS84-3-122226**
Giga Server 84″ (2.13 m) Black , with 3-pair 19″ (0.48 m) Mounting	**BGS84-3-100000**

* = Casters & Levelers • EIA - 310 - D Compliant
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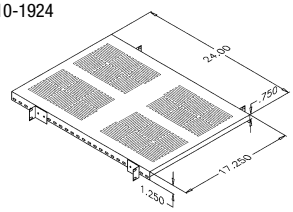
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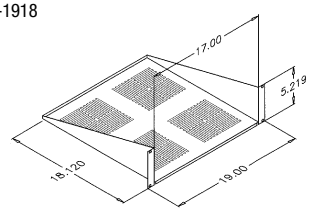
Modular Enclosure Options and Accessories

Enclosure Shelves

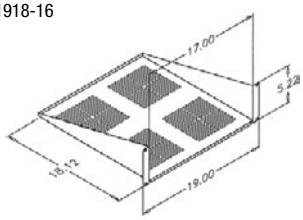
B9010-1924



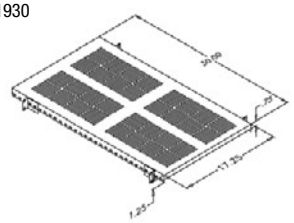
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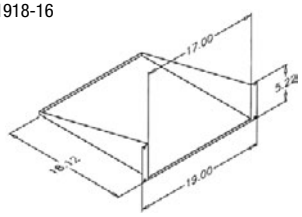
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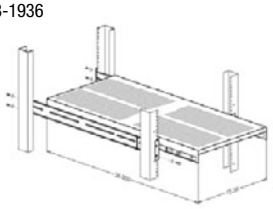
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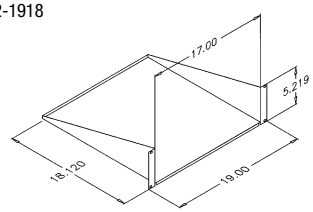
B9012-1918-16



B9013-1936



B9012-1918



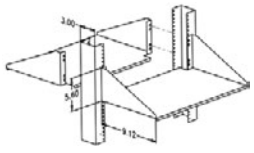
Enclosure Shelves

Modular Enclosure Shelves are available in widths of 19″ (0.48 m) and 23″ (0.58 m) with mounting depths of 24″ (0.60 m), 30″ (0.76 m) and 36″ (0.91 m). Load ratings range from 70 lbs. (31 kg) up to 200 lbs. (90 kg). All shelves are black in color unless otherwise noted below.

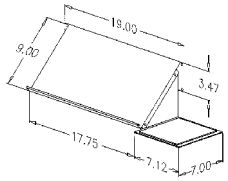
Description	Belden Part Number
19″ (0.48 m) Shelves	
19″ (0.48 m) Heavy-Duty Adjustable Shelf (Vented)	
4 Point Mounting, 24″ (0.60 m) Depth, 150 lbs. (68 kg) Load Rating	**B9010-1924**
4 Point Mounting, 30″ (0.76 m) Depth, 150 lbs. (68 kg) Load Rating	**B9010-1930**
4 Point Mounting, 36″ (0.91 m) Depth, 150 lbs. (68 kg) Load Rating	**B9010-1936**
19″ (0.48 m) Flush Mount Cantilevered Shelf (Vented)	
12″ (0.30 m) Depth, Fits 24″ (0.60 m) Wall Mount, 70 lbs. (31 kg) Load Rating	**B9011-1912**
18″ (0.45 m) Depth, 75 lbs. (34 kg) Load Rating	**B9011-1918**
18″ (0.45 m) Depth, 50 lbs. (22 kg) Load Rating	**B9011-1918-16**
19″ (0.48 m) Flush Mount Cantilevered Shelf (Solid)	
18″ (0.45 m) Depth, 75 lbs. (34 kg) Load Rating	**B9012-1918**
18″ (0.45 m) Depth, 50 lbs. (22 kg) Load Rating	**B9012-1918-16**
19″ (0.48 m) Heavy Duty Sliding Adjustable Shelf (Vented)	
4 Point Mounting, 24″ (0.60 m) Depth, 200 lbs. (90 kg) Load Rating	**B9015-1924**
4 Point Mounting, 30″ (0.76 m) Depth, 100 lbs. (45 kg) Load Rating	**B9013-1930**
4 Point Mounting, 36″ (0.91 m) Depth, 100 lbs. (45 kg) Load Rating	**B9013-1936**
19″ (0.48 m) Keyboard Shelf (Fixed Front of Mounting Rail with Mouse Pad)	**B9014-1907**
19″ (0.48 m) Drawer, Monitor and Keyboard Shelf	**B9015-1902**
19″ (0.48 m) Sliding Rotating Keyboard Shelf	**B9015-1909**
19″ (0.48 m) Center Mount Shelf Kit (2-shelves)	
21″ (0.53 m) Depth, Aluminum, 100 lbs. (45 kg) Load Rating	**B9016-1921**
21″ (0.53 m) Depth, Black, 100 lbs. (45 kg) Load Rating	**B9016-1921-3**
19″ (0.48 m) Drawer, Utility, 4U, 16″ (0.40 m) Depth	**B9017-0200**
Pivot Cable Retractor	**B9309-0100**
19″ (0.48 m) Quick Disconnect Shelf	
6 mm Mounting Rails, 24″ (0.60 m) Depth, 200 lbs. (90 kg) Load Rating	**B9010-1924-Q**
6 mm Mounting Rails, 30″ (0.76 m) Depth, 200 lbs. (90 kg) Load Rating	**B9010-1930-Q**

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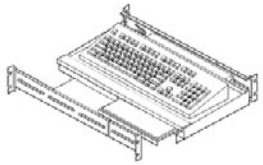
B9016-1921



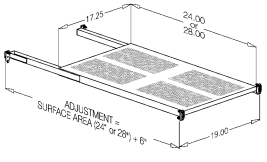
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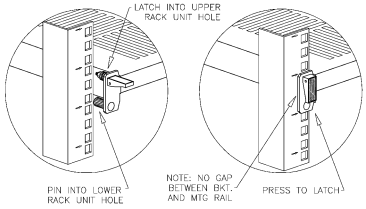


B9015-1909



B9010-1930-Q





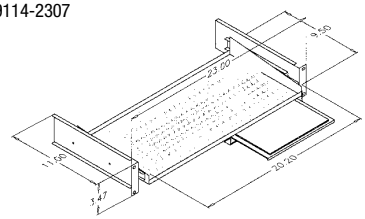
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

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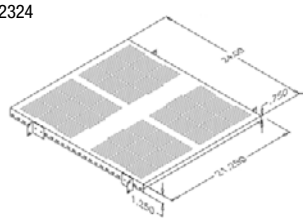
Modular Enclosure Options and Accessories

Enclosure Shelves *(continued)*

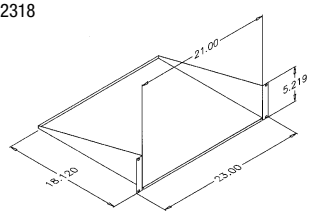
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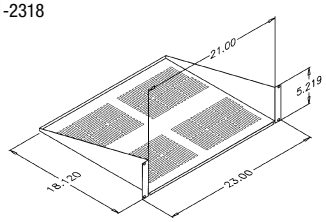
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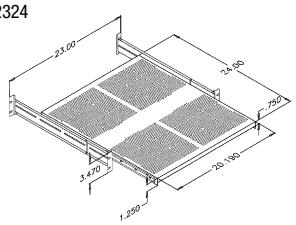
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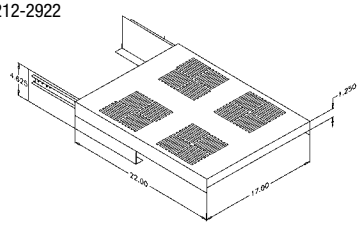
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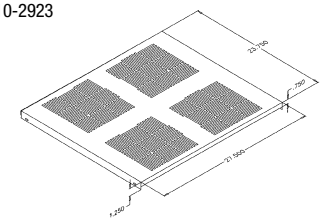
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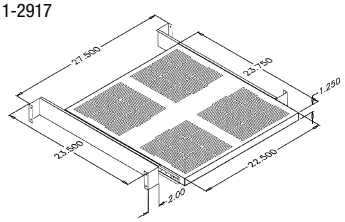
B9212-2922



B9210-2923



B9211-2917



Description	Belden Part Number
23″ (0.58 m) Shelves	
23″ (0.58 m) Heavy Duty Adjustable Shelf (Vented)	
4 Point Mounting, 180 lbs. (81 kg) Load Rating	**B9110-2324**
23″ (0.58 m) Flush Mount Cantilevered Shelf (Vented)	
70 lbs. (31 kg) Load Rating	**B9111-2318**
23″ (0.58 m) Flush Mount Cantilevered Shelf (Solid)	
70 lbs. (31 kg) Load Rating	**B9112-2318**
23″ (0.58 m) Heavy Duty Sliding Adjustable Shelf (Vented)	
4 Point Mounting, 85 lbs. (38 kg) Load Rating	**B9113-2324**
23″ (0.58 m) Sliding Keyboard Shelf with Mouse Pad	**B9114-2307**
Frame Shelves	
27.5″ (0.69 m) Wide Side Mount Shelf (Vented)	
23.75″ (0.60 m) Depth, 180 lbs. (81 kg) Load Rating	**B9210-2923**
23.75″ (0.60 m) Depth, 90 lbs. (40 kg) Load Rating	**B9211-2917**
17″ (0.43 m) Wide Bottom Mount Sliding Server Shelf (Vented)	
22″ (0.55 m) Depth, 100 lbs. (45 kg) Load Rating	**B9212-2922**

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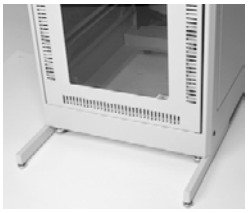
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Modular Enclosure Options and Accessories

Anti-Tip, Grounding Bars, Mounting Hardware

BUS-ATD-0010





Enclosure Anti-Tip Device

The data standard, data slim, data deep and ultra deep server modular enclosures are configured with an anti-tip device which protects the enclosure from tipping when servers and shelves are extended.

Description	Belden Part Number
Anti-Tip Device for Ultra Deep Server	**BUS-ATD-0010-C**
Anti-Tip Device for Data Standard	**BST-ATD-0030-3**
Anti-Tip Device for Data Deep	**BDP-ATD-0200-3**
Anti-Tip Device for Data Slim	**BSL/BST-ATD-0300-3**

Grounding Bars

Copper grounding bars are available for mounting on any of the enclosure types. Grounding bars are available for vertical or horizontal mounting.

Description	Belden Part Number
70″ (1.77 m) Vertical Isolated Copper Ground Bar, Tapped 10-32	**B9714-0720**
10″ (0.25 m) Horizontal Isolated Copper Ground Bar, Tapped 10-32	**B9714-0190**

B9714-0720

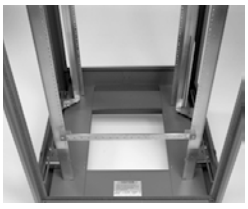


Enclosure Mounting Hardware

The enclosure mounting hardware line includes a variety of bolts, screws and nuts for securing the enclosure.

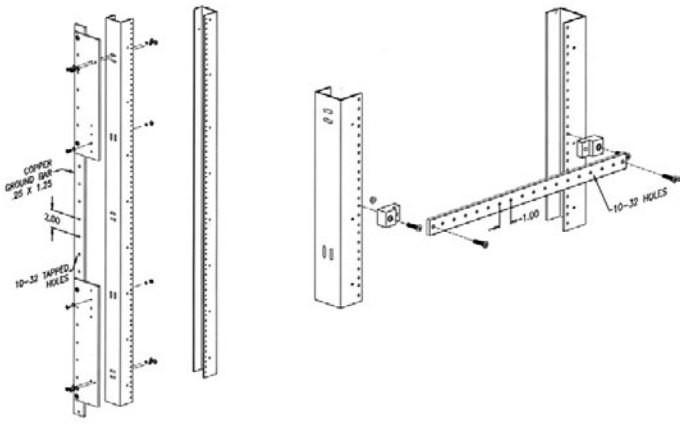
Description	Belden Part Number
4, 5/16-18 Hex Head Bolt; 4, 5/16-18 Hex Nut; 8-5/16 Flat Washer	**B8910-0100**
10-32 Mounting Screws, Package of 50	**B8911-0100**
M6 Mounting Cagenut, Package of 50	**B8913-0100**
M6 Mounting Screw, Package of 50	**B8914-0100**
10-32 Mounting Hardware, 10-32 Floating Cagenut, Package of 50	**B8915-0100**

B9714-0190



B8913-0100





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Modular Enclosure Options and Accessories

Mounting Rails

Mounting Rails Demonstrated in Enclosure



BRL-3024-0100



BRL-3012-0200



BRL-3006-0300



Enclosure Mounting Rails

The enclosure mounting rail line includes 19″ (0.48 m) and 23″ (0.58 m) rails which are fully adjustable to accommodate different mounting depths.

Description	Belden Part Number
Data Standard	
Adjustable Mounting Rails 19″ or 23″ (0.48 m or 0.58 m)	
Tapped 10-32, 48″ (1.21 m)	**BST4819-23**
Tapped 10-32, 72″ (1.82 m)	**BST7219-23**
Tapped 10-32, 78″ (1.98 m)	**BST7819-23**
Tapped 10-32, 84″ (2.13 m)	**BST8419-23**
6 mm with Hardware, 84″ (2.13 m)	**BST8419-23SQ**
Data Slim	
Adjustable Mounting Rails 19″ or 23″ (0.48 m or 0.58 m)	
Tapped 10-32, 72″ (1.82 m)	**BSL7219**
6 mm with Hardware, 72″ (1.82 m)	**BSL7219SQ-2**
Tapped 10-32, 78″ (1.98 m)	**BSL7819**
Tapped 10-32, 84″ (2.13 m)	**BSL8419**
Data Deep	
Adjustable Mounting Rails 19″ or 23″ (0.48 m or 0.58 m)	
Tapped 10-32, 72″ (1.82 m)	**BDP7219-23**
6 mm with Hardware, 72″ (1.82 m)	**BDP7219-23SQ**
Tapped 10-32, 78″ (1.98 m)	**BDP7819-23**
Tapped 10-32, 84″ (2.13 m)	**BDP8419-23**

Enclosure Partial Rail Kits

The enclosure partial rail kit line includes 6U, 12U and 24U rails for increased mounting flexibility.

Description	Belden Part Number
19″ (0.48 m) Partial Rail Kit (6U)	**BRL-3006-0300**
19″ (0.48 m) Partial Rail Kit (12U)	**BRL-3012-0200**
19″ (0.48 m) Partial Rail Kit (24U)	**BRL-3024-0100**

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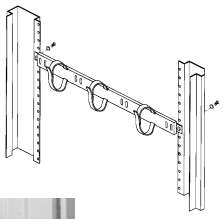
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Modular Enclosure Options and Accessories

Cable Management and Light Kits

B9713-0200



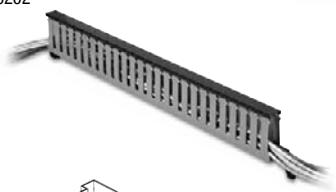


Horizontal: B9713-0200
Vertical: B9712-0100

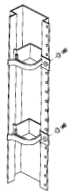
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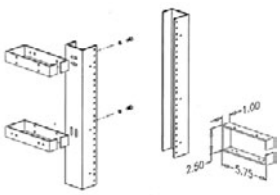
B9713-0202



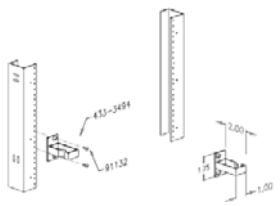
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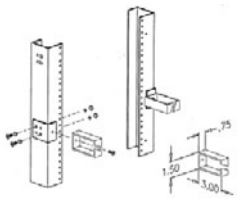
B9712-0101



B9712-0103



B9712-0102



Front to Rear Cable Management

Front to rear cable management makes routing of cable neat, keeps them secure and manages bend radius.

Description	Belden Part Number
Front to Rear Cable Management	
w/3 Velcro Straps	**B9713-0200**
for 30″ & 34″ (0.76 & 0.86 m) deep Enclosure 1″ x 3″ (0.025 x 0.076 m) Finger Stock	**B9713-0201**
for 36″ deep Enclosure 1″ x 3″ (0.025 x 0.076 m) Finger Stock	**B9713-0202**
Vertical Cable Management	
Corner Mount Vertical Cable Management Ring 3″ x 3″ (0.076 x 0.076 m) w/Velcro Strap	**B9712-0100**
Side Mount Cable Management 2.5″ x 5.75″ (0.063 x 0.074 m)	**B9712-0101**
Front Mount Cable Management 1.5″ x 3″ (0.038 x 0.076 m)	**B9712-0102**
1U Cable Manager 1″ wide x 2″ deep (0.025 x 0.050 m)	**B9712-0103**
Mounting Rail Single M-Clip (XUSD)	**B9712-0106**
Mounting Rail Dual M-Clip (XUSD)	**B9712-0107**
Mounting Rail 84″ (2.13 m) Lacing Panel Black (Data Standard, Data Slim, Data Deep)	**B9712-0108**
78″ (1.98 m) Lacing Panel Black (Data Standard, Data Slim, Data Deep)	**B9712-0109**
78″ (1.98 m) Lacing Panel Black (Ultra Server, Ultra Deep Server)	**B9712-0109S**
Light Kits	
With Dual adjustable 5 Watt Halogen Lights & Dimmer, UL-Listed	**B9420-1905**
With Single adjustable 5 Watt Halogen Light & Dimmer, UL-Listed	**B9420-1906**

B9712-0106



B9712-0108,
B9712-0109



B9712-0107



B9420-1905



B9420-1906



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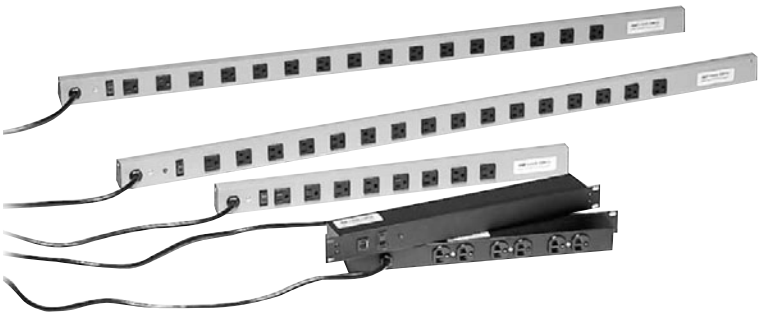
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Modular Enclosure Options and Accessories

Enclosure Power Strips

Power Strips





5-15P 3 Prong | L5-15P Locking | 5-20P | L5-20P Locking

Technical Specifications

Part Number	Number of Outlets	Amps	Plug Type	Protection		Switch	Outlet Spacing (inch)	Volts	Receptacle Type	Cord Length	
				Surge	Circuit					ft.	m
B9411-1602	16	15	5-15P 3 Prong	Yes	Yes	Yes	2.500	120	5-15R	15	4.6
B9412-0801	8	15	5-15P 3 Prong	No	Yes	Yes	2.000	125	5-15R	15	4.6
B9413-0601	6	15	5-15P 3 Prong	No	Yes	Yes	1.500	125	5-15R	15	4.6
B9414-0602	6	15	5-15P 3 Prong	Yes	Yes	Yes	1.500	125	5-15R	15	4.6
B9415-1601	10	20	L5-20P Locking	No	Yes	Yes	4.300	120	5-15R	15	4.6
B9415-1602	16	20	L5-20P Locking	No	Yes	Yes	2.500	120	5-15R	15	4.6
B9415-1603	16	20	5-20P	No	Yes	Yes	2.430	120	5-15R	15	4.6
B9415-1606	6	20	L5-20P Locking	No	Yes	Yes	2.650	120	5-15R	15	4.6
B9415-1607	10	15	L5-15P Locking	No	Yes	Yes	4.250	120	5-15R	15	4.6
B9415-1608	16	20	L5-20P Locking	No	No	No	2.735	120	5-15R	15	4.6
B9415-1610	16	20	5-20P 3 Prong	Yes	Yes	No	2.250	125	5-20R	15	4.6
B9416-1001	10	20	L5-20P Locking	No	Yes	Yes	–	120	5-15R	15	4.6

Description	Belden Part Number
4′ (1.2 m) 16 Outlet Strip Surge Suppressor, 15′ (4.6 m) Power Cord, UL-Listed	**B9411-1602**
2′ (0.6 m) 8 Outlet Strip, 15 Amp/15′ (4.6 m) Power Cord, UL-Listed	**B9412-0801**
19″ (0.48 m) Rack Mount 6 Outlet Strip (Rear), 15 Amp/15′ (4.6 m) Power Cord, UL-Listed	**B9413-0601**
19″ (0.48 m) Rack Mount 6 Outlet Strip (Rear) Surge, 15 Amp/15′ (4.6 m) Power Cord, UL-Listed	**B9414-0602**
4′ (1.2 m) 10 Outlet Strip, 20 Amp/15′ (4.6 m) Power Cord w/Twist Lock Plug, UL-Listed	**B9415-1601**
4′ (1.2 m) 16 Outlet Strip, 20 Amp/15′ (4.6 m) Power Cord w/Twist Lock Plug, UL-Listed	**B9415-1602**
4′ (1.2 m) 16 Outlet Strip, 20 Amp/15′ (4.6 m) Power Cord, UL-Listed	**B9415-1603**
6 Outlet Strip, 20 Amp/15′ (4.6 m) Power Cord w/Twist Lock Plug, UL-Listed	**B9415-1606**
10 Outlet Strip, 15 Amp/15′ (4.6 m) Power Cord w/Twist Lock Plug, UL-Listed	**B9415-1607**
4′ (1.2 m) 16 Outlet Strip, 20 Amp/15′ (4.6 m) Power Cord	**B9415-1608**
4′ (1.2 m) 16 Outlet Strip, 20 Amp Receptacle, Surge, CB, No Switch, 15′ (4.6 m) Cord, UL-Listed	**B9415-1610**
19″ (0.48 m) Rack Mount 6 Outlet Front, 4 Outlet Rear, 20 Amp/15′ (4.6 m) Cord, w/Twist Lock Plug	**B9416-1001**

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Modular Enclosure Options and Accessories

Mission Critical Power Accessories

Mission Critical Power Accessory



Mission Critical Power Accessories

Slim-Line™ low-profile, power distribution, designed for high-density, mission critical server applications, the SL series provides maximum power in a low profile chassis. Employing multiple configurations, the Easy-Read™ digital ammeter and clearly labeled circuits, SL series assures easy management and monitoring for current requirements and future expansions.

- Datacenter grade receptacles
- 1.25″ (0.03 m) low profile
- Easy-Read™ digital ammeter

Dual-circuit, vertical power distribution, designed for high-density, mission critical server applications, the DBVD series provides dual-source in one vertical, power distribution unit. Employing multiple configurations, the Easy-Read™ digital ammeter and clearly labeled circuits, DBVD assures easy management and monitoring for current requirements and future expansions.

- High-density, dual source
- Side-by-side outlet configuration
- Easy-Read™ digital ammeter
- Clearly labeled circuits

Technical Specifications

Part Number	Circuit Type	Volts	Amps	Unit Length		Plug Type	Cord Length		Outlet Type	Qty.	Power (Watts)	Est. Server Qty.			Ammeter
				inch	m		ft.	m				300W	400W	500W	
B9418-0801	Single	120	20	24	0.60	Straight	15	4.6	5-15/20	8	1920	10	8	6	Yes
B9418-0802	Single	120	20	24	0.60	L5-20	15	4.6	5-15/20	8	1920	10	8	6	Yes
B9418-1201	Single	120	20	60	1.52	L5-20	15	4.6	5-15/20	12	1920	10	8	6	Yes
B9418-2401	Single	120	30	60	1.52	L5-30	15	4.6	5-15/20	24	2880	15	12	9	No
B9418-2402	Dual	120	2 x 20	60	1.52	2 x L5-20	15	4.6	5-15/20	2 x 12	2 x 1920	10	8	6	No
B9418-2403	Dual	120	2 x 20	60	1.52	L5-20	15	4.6	5-15/20	2 x 12	2 x 1920	10	8	6	Yes
B9418-2410	Single	120	30	60	1.52	L5-30	15	4.6	5-15/20	24	2880	15	12	9	Yes
B9418-4801	Dual	208	2 x 30	68	1.72	2 x L6-30	10	3.1	C-13	2 x 24	2 x 4992	24	21	17	Yes
B9418-7201	Dual	208 3-phase	2 x 20	68	1.72	2 x L21-20	10	3.1	C-12	2 x 36	2 x 5757	32	24	19	Yes

Description	Belden Part Number
24″ (0.60 m) 8 Outlet 20 Amp Circuit, 120 Volt, Straight Plug, 15′ (4.6 m) Power Cord, with Ammeter, UL-Listed	**B9418-0801**
24″ (0.60 m) 8 Outlet 20 Amp Circuit, 120 Volt, L-5 20 Plug, 15′ (4.6 m) Power Cord, with Ammeter, UL-Listed	**B9418-0802**
60″ (1.52 m) 12 Outlet 20 Amp 120 Volt, L-5 20 Plug, 15′ (4.6 m) Power Cord with Ammeter, UL-Listed	**B9418-1201**
60″ (1.52 m) 24 Outlet 30 Amp 120 Volt, L-5 30 Plug, 15′ (4.6 m) Power Cord, UL-Listed	**B9418-2401**
60″ (1.52 m) Dual 12 Outlet, Dual 20 Amp Circuit, 120 Volt, Dual L-5 20 Plug, 15′ (4.6 m) Power Cord, UL-Listed	**B9418-2402**
60″ (1.52 m) Dual 12 Outlet, Dual 20 Amp Circuit, 120 Volt, Single L-5 20 Plug, 15′ (4.6 m) Power Cord, with Ammeter, UL-Listed	**B9418-2403**
60″ (1.52 m) 24 Outlet 30 Amp 120 Volt, L-5 30 Plug, 15′ (4.6 m) Power Cord, with Ammeter, UL-Listed	**B9418-2410**
68″ (1.72 m) Dual 24 Outlet, Dual 30 Amp Circuit, Dual L-6 30 Plug, C-13 Outlets, 10′ (3.1 m) Power Cord, with Ammeter, UL-Listed	**B9418-4801**
68″ (1.72 m) Dual 36 Outlet, Dual 20 Amp Circuit, Dual L-21 20 Plug, C-12 Outlets, 10′ (3.1 m) Power Cord, with Ammeter, UL-Listed	**B9418-7201**

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Modular Enclosure Options and Accessories

Climate Monitors and Controllers

B9318-0400



B9318-0300



B9318-0200



These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

Climate Monitor

Designed specifically for internal computer cabinet installation, this low-cost self-contained unit continually monitors climate via an internally-generated web page or SNMP. Values are graphed to see trends.

Its small size permits mounting in cabinet corners or the cabinet "attic" area and eliminates the environment monitor from occupying a 1-U space.

All software is contained inside the unit. The user supplies an Internet connection and an IP address. Administration of the unit is accomplished via the web page. When user-defined thresholds are exceeded, alarms can be sent via email or SNMP trap.

A full set of internal sensors are included:

- Temperature
- Air flow
- Sound
- Humidity
- Light

A variety of optional remote sensors are easily added. Up to 16 remote sensors can be added using Category 3 telephone wire and RJ-11 connectors. Remote sensors include:

- Webcam
- Water sensor
- City power monitor
- Door sensors
- Remote temperature sensor
- In-line power monitoring

Remote sensors allow the unit to monitor up to 16 cabinets hundreds of feet apart and show the status of air-conditioning outputs. There is one remote RJ-11 sensor receptacle on the unit. Simple splitters are used to expand to use all 16 sensors.

Software protocols include:

- Web (HTTP)
- FTP (firmware upgrades)
- WAP (cell phone display)
- SMTP/POP
- Graphing
- XML
- SNMP (full MIB)
- PDA display format
- Excel™

The webcam used is an IP-based Axis 205; it can be installed locally or remotely. Firmware updates can be made by FTP file transfer which eliminates retuning the unit to the factory.

Description	Belden Part Number
Climate Monitor (Temperature, Heat, Humidity, Airflow, Sound)	**B9318-0400**

Electronic Fan Controller

- Remote temperature sensor with eight feet of cable allows mounting of controller in convenient location while precisely monitoring temperature at any point within the cabinet.
- Digital display shows actual temperature and programmed setpoint.
- Universal mounting bracket allows mounting to EIA rails or enclosure frame.
- Temperature range from -29˚C (-20˚F) to 60˚C (140˚F).

Description	Belden Part Number
Electronic Fan Controller	**B9318-0300**

Thermostat Fan Controller

- Low cost mechanical controller with Internal Bi-metal sensing element.
- Position controller inside cabinet where temperature is to be monitored.
- Universal mounting bracket allows mounting to EIA rails or enclosure frame.
- Temperature range from -23˚C (-10˚F) to 38˚C (100˚F).

Description	Belden Part Number
Thermostat Fan Controller	**B9318-0200**

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Wall Mount Enclosures and Accessories

Wall Mount Enclosures

BWM 4820-GD

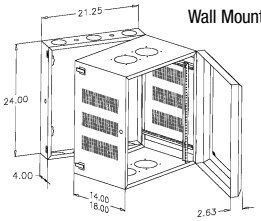


BWM 2406-SD



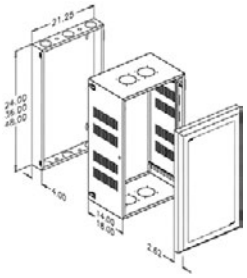
BWM 2420-SD





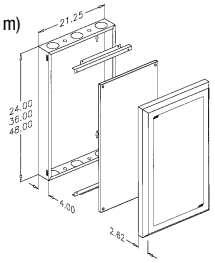
Wall Mount Assy. Swing-Out View
20″ (0.50 m) Depth/
24″ (0.60 m) Depth

Wall Mount Assy.
Rear Section
Mid Section
Front Door w/Glass

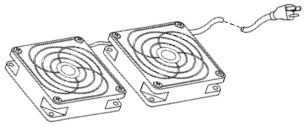


Wall Mount Assy. 4″ (0.10 m)
Depth Rear Section
Plywood Back Board
(Opt.) Front Door
with Glass

6″ (0.15 m) Depth



BWM-9312-1600 Fan Assembly
(2) 4″ (0.10 m) Diameter Fans (160 CFM) w/Guard

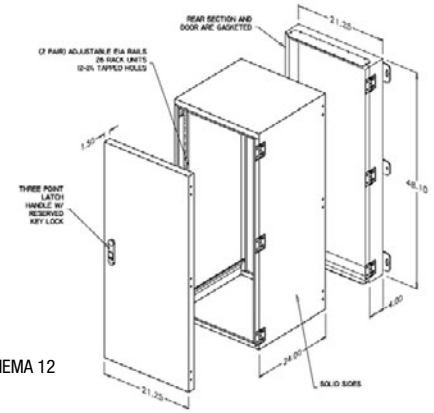


Wall Mount Enclosure

The Wall Mount Enclosure provides a secure and permanent location for a variety of components. Most units feature 19″ (0.48 m) mounting rails and are available with either a glass door with lock or a steel door with lock and 1 pair of 10-32 tapped rails. A 48″ (1.21 m) NEMA-12 model is also offered for harsh environments.

Description	Weight	Mounting	Belden Part Number
Wall Mount Enclosure			
24″ (0.60 m) Wall Mount Enclosure 6″ (0.15 m) Depth			
with Glass Door with Lock	40 lbs. (18 kg)	Back Board	**BWM-2406-GD-C**
with Steel Door with Lock	35 lbs. (15 kg)	Back Board	**BWM-2406-SD-C**
24″ (0.60 m) Wall Mount Enclosure 20″ (0.50 m) Depth			
with Glass Door with Lock	75 lbs. (34 kg)	12U	**BWM-2420-GD-C**
with Steel Door with Lock	70 lbs. (31 kg)	12U	**BWM-2420-SD-C**
24″ (0.60 m) Wall Mount Enclosure 24″ (0.60 m) Depth			
with Glass Door with Lock	80 lbs. (36 kg)	12U	**BWM-2424-GD-C**
with Steel Door with Lock	75 lbs. (34 kg)	12U	**BWM-2424-SD-C**
36″ (0.91 m) Wall Mount Enclosure 6″ (0.15 m) Depth			
with Glass Door with Lock	45 lbs. (20 kg)	Back Board	**BWM-3606-GD-C**
with Steel Door with Lock	45 lbs. (20 kg)	Back Board	**BWM-3606-SD-C**
36″ (0.91 m) Wall Mount Enclosure 20″ (0.50 m) Depth			
with Glass Door with Lock	90 lbs. (40 kg)	18U	**BWM-3620-GD-C**
with Steel Door with Lock	85 lbs. (38 kg)	18U	**BWM-3620-SD-C**
36″ (0.91 m) Wall Mount Enclosure 24″ (0.60 m) Depth			
with Glass Door with Lock	98 lbs. (44 kg)	18U	**BWM-3624-GD-C**
with Steel Door with Lock	95 lbs. (43 kg)	18U	**BWM-3624-SD-C**
48″ (1.21 m) Wall Mount Enclosure 6″ (0.15 m) Depth			
with Glass Door with Lock	75 lbs. (34 kg)	Back Board	**BWM-4806-GD-C**
with Steel Door with Lock	65 lbs. (29 kg)	Back Board	**BWM-4806-SD-C**
48″ (1.21 m) Wall Mount Enclosure 20″ (0.50 m) Depth			
with Glass Door with Lock	120 lbs. (54 kg)	25U	**BWM-4820-GD-C**
with Steel Door with Lock	110 lbs. (49 kg)	25U	**BWM-4820-SD-C**
48″ (1.21 m) Wall Mount Enclosure 24″ (0.60 m) Depth			
with Glass Door with Lock	135 lbs. (61 kg)	25U	**BWM-4824-GD-C**
with Steel Door with Lock	125 lbs. (56 kg)	25U	**BWM-4824-SD-C**
48″ (1.21 m) NEMA 12 Wall Mount Enclosure 24″ (0.60 m) Depth			
with Steel Door with Latch	205 lbs. (92 kg)	26U	**BWM-4830-SD-3S0001**

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NEMA 12

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Wall Mount Enclosures and Accessories

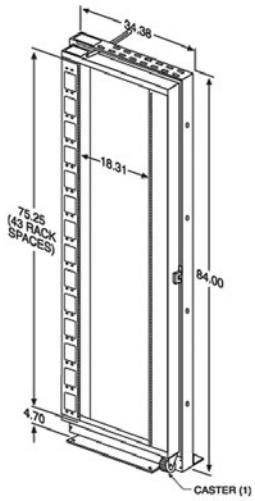
Accessories and Swing Racks

Optional Basket



Wall Mount Enclosure Accessories

Description	Belden Part Number
Caster/Leveler Base	
Caster/Leveler Base, 20″ or 24″ (0.50 m or 0.60 m)	**B8912-0200-C**
Back Board	
24″ (0.60 m) Plywood Back Board (Black)	**BWM-2401**
36″ (0.91 m) Plywood Back Board (Black)	**BWM-3601**
48″ (1.21 m) Plywood Back Board (Black)	**BWM-4801**
Fan Assembly	
Fan Assembly (2) 4″ (0.10 m) Diameter Fans (160 CFM) with Guard	**BWM-9312-1600**
Mounting Uprights	
19″ (0.48 m) Mounting Uprights, 24″ (0.60 m)	**BWM-2419**
19″ (0.48 m) Mounting Uprights, 36″ (0.91 m)	**BWM-3619**
19″ (0.48 m) Mounting Uprights, 48″ (1.21 m)	**BWM-4819**

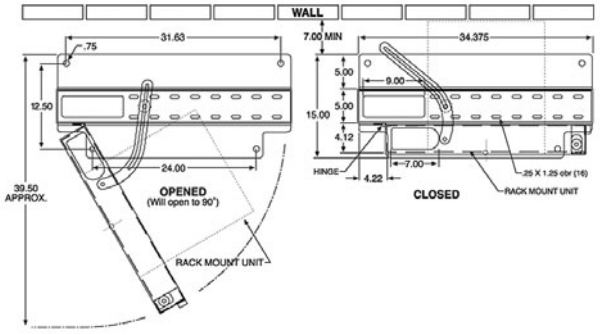


Swing Racks

The Swing Rack provides easy access to the rear of rack mounted equipment in a freestanding environment. It is ideal for applications where space is limited and rear access is essential.

Description	Weight	Mounting	Belden Part Number
84″ (2.13 m) Swing-out Distribution Rack	179 lbs. (81 kg)	34U	**BSW-8419**
Power Strip Mounting Kit (Sold Separately)			**BSW-0100**
Top Mounting Wire Basket (24″/0.60 m Long) (Sold Separately)			**BSW-0200**

Swing Racks



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Notes

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BELDEN
SENDING ALL THE RIGHT SIGNALS



12 Open Frame Racks and Accessories



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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

Sources of a Higher Magnitude

Belden is the largest company of its kind, combining cable, connectivity, enclosures and many other product solutions for highly technical industries around the globe. As the exclusive occupant in this market position, Belden provides thousands of satisfied customers with over a billion euros worth of trusted solutions every year, much of which supports the commercial networking sector. By combining our expertise in the design and manufacture of cables, connectivity, enclosures and related products, Belden now offers a product line of staggering magnitude, engineering triumphs and rich resources – worldwide.

Belden Open Frame Racks

The complete line of Belden open frame racks are designed to meet the unique needs of data networks and other cabling systems. Whether it's the protection of sensitive equipment, the ability to mount equipment of varied sizes and depths, or the need to organize and neatly route installed cables, Belden has the solution you need. Belden provides you with single source convenience for all of your cable management requirements.

Enclosures and Racks

Choose from a variety of vertical enclosures, open frame racks and wall mount enclosures, all expertly engineered to optimize product quality and performance. Although standard configurations of the most popular enclosures are offered for fast delivery needs, all custom enclosures and racks have numerous mounting, cable and patch cord management options, along with a variety of accessories. This selection of Belden enclosures and racks will meet virtually any mounting, storage or protection requirement for your application.

Cable Ties

Belden cable ties are available in a complete variety of sizes for varying load capacities and are available in standard nylon or weather-resistant nylon.

Type	Tensile/Shear Strength		Length		Weather Resistant
	lbs.	kg	inch	m	
Miniature	18 lbs.	8	4″ or 8″	0.70/0.20	
Intermediate	40 lbs.	18	5 1/2″ to 14 1/2″	0.13/0.36	•
Standard	50 lbs.	22	8″ to 17 3/4″	0.70/0.45	•
Heavy Duty	120 lbs.	54	15″	0.38	
Heavy Duty	175 lbs.	79	17 3/4″ to 48″	0.45/1.27	
Velcro	23 lbs./sq.in	10	8″ or 12″	0.20/0.30	

Single Sourcing Convenience

The cable management product families in this catalog are offered to cabling professionals for ultimate convenience in single sourcing. As a Belden customer, you also have the assurance of total dependability by working with a market leader and a trusted partner who has a vested interest in optimizing your operations and investments. We want to make sure you not only get the products you need with ease, but they also perform reliably.

Availability

Please contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com for availability.

Open Frame Racks

Type	Rack Space	Heights		Panel Mount		Width		Depth	
		inch	m	inch	m	inch	m	inch	m
Swing Rack	43U	84	2.13	19	0.48	34, 38	0.86, 0.96	15	0.38
Distribution Rack	25, 39, 44U	48, 72, 84	1.21, 1.82, 2.13	19, 23	0.48, 0.58	21.2, 25.2	0.53, 0.64	21	0.53
Cable Management Rack	44U	84	2.13	19	0.48	23.75, 25.75	0.60, 0.65	15, 22	0.38, 0.55
Copper Rack Kit	44U	84	2.13	19	0.48	30.75	0.78	14	0.35
Fiber Rack Kit	44U	84	2.13	19, 23	0.48, 0.58	25, 29	0.63, 0.73	14	0.35
Wall Mount Rack – Swing-out	19, 25U	36, 48	0.91, 1.21	19	0.48	20	0.50	12 to 18	0.30 to 0.45
Wall Mount Rack – Hinged	2U, 4U, 6U	3.5, 7, 11	0.088, 0.17, 0.27	19	0.48	19, 19.5	0.48, 0.49	4, 9.5	0.10, 0.24

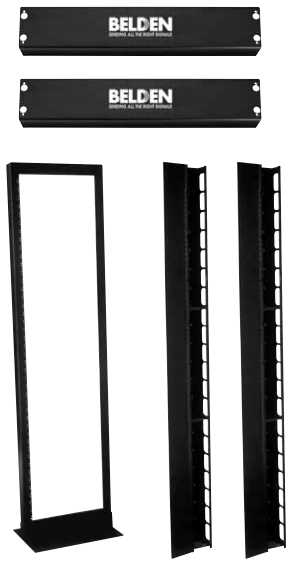
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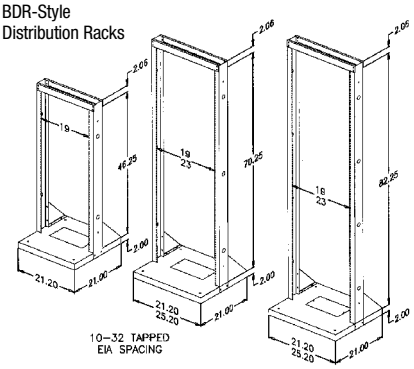
Open Frame Rack Kits & Accessories

Distribution Racks, Vertical Cable Managers

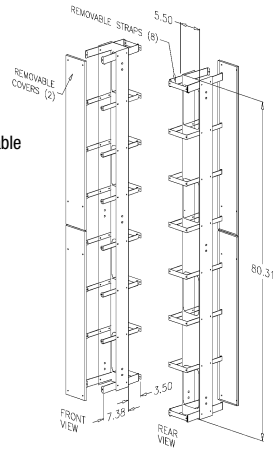
AX101174 Rack Kit



BDR-Style
Distribution Racks



BDR-Style
Vertical Cable
Managers



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Open Frame Rack Kits

Rack kits are offered for both copper and fiber cabling. Welded and knock-down rack assemblies are available for copper; knock-down rack kits are available for fiber. All units feature one rack with either one or two vertical and two horizontal channels.

Description	Mounting	Weight		Belden Part Number
		lbs.	kg	
Copper Rack Kit				
Welded Rack Assembly – Black, 19″ x 84″ (7′) (One Rack w/2 Vertical & 2 Horizontal Channels), (0.48 x 2.13 m)	44U	145	66	**AX101174**
Knock-Down Rack Assembly – Black, 19″ x 84″ (7′) (One Rack w/2 Vertical & 2 Horizontal Channels), (0.48 x 2.13 m)	44U	145	66	**AX101175**
Fiber Rack Kit				
Knock-Down Rack Assembly – Black, 19″ x 84″ (7′) (One Rack with 1 Vertical & 2 Horizontal Channels), (0.48 x 2.13 m)	44U	106	49	**AX101176**
Knock-Down Rack Assembly – Grey, 23″ x 84″ (7′) (One Rack with 1 Vertical & 2 Horizontal Channels), (0.58 x 2.13 m)	44U	113	52	**AX101177**
Floor Mount Rack				
Knock-Down Rack Assembly – Black, 19″ x 84″ (7′) (w/Two Horizontal Channels) (0.48 x 2.13 m)	44U	65	30	**AX101178**
Knock-Down Rack Assembly – Grey, 19″ x 84″ (7′) (w/Two Horizontal Channels) (0.48 x 2.13 m)	44U	65	30	**AX101254**
Knock-Down Rack Assembly – Black, 23″ x 84″ (7′) (w/Two Horizontal Channels) (0.58 x 2.13 m)	44U	70	32	**AX100931**
Knock-Down Rack Assembly – Grey, 23″ x 84″ (7′) (w/Two Horizontal Channels) (0.58 x 2.13 m)	44U	70	32	**AX100930**
Welded Rack Assembly – Black, 19″ x 84″ (7′) (w/Two Horizontal Channels) (0.48 x 2.13 m)	44U	65	30	**AX101179**

Distribution Racks

The distribution rack features 19″ or 23″ (0.48 m or 0.58 m) mounting rails for attaching a variety of rack mounted equipment. 48″, 72″ and 84″ (1.21 m, 1.82 m and 2.13 m) high models are included in the line.

Description	Mounting	Weight		Belden Part Number
		lbs.	kg	
48″ (1.21 m) Distribution Rack, 19″ (0.48 m) Mounting Rails	25U	34	15	**BDR-4819**
72″ (1.82 m) Distribution Rack, 19″ (0.48 m) Mounting Rails	39U	43	20	**BDR-7219**
84″ (2.13 m) Distribution Rack, 19″ (0.48 m) Mounting Rails	39U	50	23	**BDR-8419**
84″ (2.13 m) Distribution Rack, 19″ (0.48 m) Mounting Rails, 4″ (0.10 m) Channel with Angle Base,12-24 EIA Spacing	45U	60	27	**BDR-8419-4**
72″ (1.82 m) Distribution Rack, 23″ (0.58 m) Mounting Rails	39U	45	20	**BDR-7223**
84″ (2.13 m) Distribution Rack, 23″ (0.58 m) Mounting Rails	45U	52	24	**BDR-8423**
Caster Kit for BDR Racks				**B8912-0100**

Vertical Cable Managers

The vertical cable managers are used to manage patch cords in front and cables in the back. Available in 72″ (1.82 m) and 84″ (2.13 m) heights, the units are available with removable side panels and doors. They can be used with distribution racks (BDR-Style) and rack kit.

Description	Belden Part Number
72″ (1.82 m) Vertical Cable Manager	**BDR-7201**
84″ (2.13 m) Vertical Cable Manager	**BDR-8401**
84″ (2.13 m) Vertical Cable Manager, Double Sided with Cover	**BDR-8403**

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Open Frame Rack Kits & Accessories

Vertical and Horizontal Cable Management Channel, Cable Management Racks & Server Racks

AX101181 Horizontal Cable Management Channel



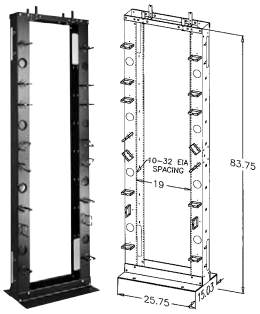
AX101180 Vertical Cable Management Channel



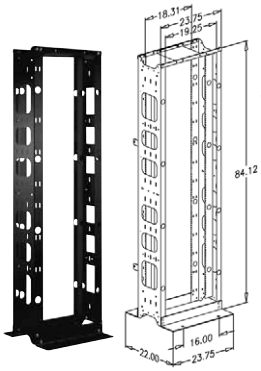
AX101371 Multi-Rack Attachment Spacer



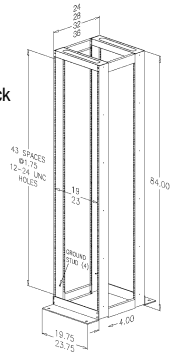
BCR-8419
84″ (2.13 m)
Cable Management Rack



BCR-8419-10
84″ (2.13 m)
Cable Management Rack w/10″ Channel



BSR-8419
Server Rack



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Vertical Cable Management Channel

Vertical cable management channels are offered for both copper and fiber cabling. Available in heights of 84″ (2.13 m), the channels make cable organization quick and easy, with swing out/removable doors.

Description	Weight		Belden Part Number
	lbs.	kg	
Copper			
Knock-Down Assembly – Black, 5″ x 84″ (7′), (0.12 x 2.13 m)	40	18	**AX101180**
Fiber			
Knock-Down Assembly – Grey, 5″ x 84″ (0.12 x 2.13 m)	35	16	**AX100932**
Knock-Down Assembly – Black, 5″ X 84″ (0.12 x 2.13 m)	35	16	**AX100933**
Multi-Rack Attachment (Spacer) Kit Use between Two Fiber Vertical Managers (AX100932-933)	–	–	**AX101371**

Horizontal Cable Management Channel

Horizontal cable management channels are available in widths of 19″ (0.48 m) and 23″ (0.58 m). The channels make cable organization quick and easy.

Description	Weight		Belden Part Number
	lbs.	kg	
19″ (0.48 m) Horizontal Cable Management Channel, Black	6	3	**AX101181**
19″ (0.48 m) Horizontal Cable Management Channel, Grey	6	3	**AX101182**
23″ (0.58 m) Horizontal Cable Management Channel, Black	8	4	**AX101184**
23″ (0.58 m) Horizontal Cable Management Channel, Grey	8	4	**AX101183**

Cable Management Rack

The cable management racks are designed for 19″ (0.48 m) rack-mount equipment and are 84″ (2.13 m) high. Model BCR-8419-10 features a channel that can be adjusted up to 10″ (0.25 m) deep.

Description	Mounting	Weight		Belden Part Number
		lbs.	kg	
84″ (2.13 m) Cable Management Rack, 19″ (0.48 m) Mounting Rails	45	53	24	**BCR-8419**
84″ (2.13 m) Cable Management Rack, 19″ (0.48 m) Mounting Rails, 10″ (0.25 m) Channel with Cable Management	45	60	27	**BCR-8419-10**

Server Rack

Server racks are designed for either 19″ (0.48 m) or 23″ (0.58 m) rack-mount equipment and are 84″ (2.13 m) high. The server rack is available in depths of 24″(0.60 m), 28″ (0.71 m) 32″ (0.81 m) and 36″ (0.91 m) to accommodate different equipment needs.

Description	Belden Part Number
84″ (2.13 m) Four Post Server Rack, 19″ (0.48 m) Mounting, Depth 24″ (0.60 m)	**BSR-8419-24**
84″ (2.13 m) Four Post Server Rack, 19″ (0.48 m) Mounting, Depth 28″ (0.71 m)	**BSR-8419-28**
84″ (2.13 m) Four Post Server Rack, 19″ (0.48 m) Mounting, Depth 32″ (0.81 m)	**BSR-8419-32**
84″ (2.13 m) Four Post Server Rack, 19″ (0.48 m) Mounting, Depth 36″ (0.91 m)	**BSR-8419-36**
84″ (2.13 m) Four Post Server Rack, 23″ (0.58 m) Mounting, Depth 24″ (0.60 m)	**BSR-8423-24**
84″ (2.13 m) Four Post Server Rack, 23″ (0.58 m) Mounting, Depth 28″ (0.71 m)	**BSR-8423-28**
84″ (2.13 m) Four Post Server Rack, 23″ (0.58 m) Mounting, Depth 32″ (0.81 m)	**BSR-8423-32**
84″ (2.13 m) Four Post Server Rack, 23″ (0.58 m) Mounting, Depth 36″ (0.91 m)	**BSR-8423-36**

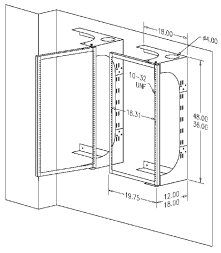
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Wall Mount Racks & Accessories

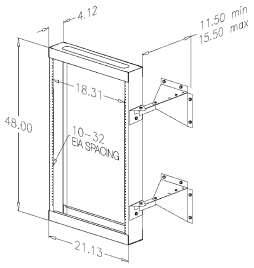
BWR-3619





BWR-4819 – Swing-out Distribution Racks
19″ x 48″ Depth Range 11.5″ to 15.5″ (0.29 m - 0.39 m)





AX100785 Wall Mount Bracket, 2U



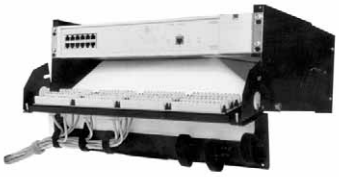
BWR-1219 – 12″ (0.30 m) Wall Mont Rack
Hinged Mounting for
Easy Access



Adjustable Shelf
2″ - 6″ (0.05 m - 0.15 m)



AX102514 – 4U Wall Mount Bracket w/2U Swivel



BER-6X6 –
6U Wall Mount Rack
w/6U and 6U Front

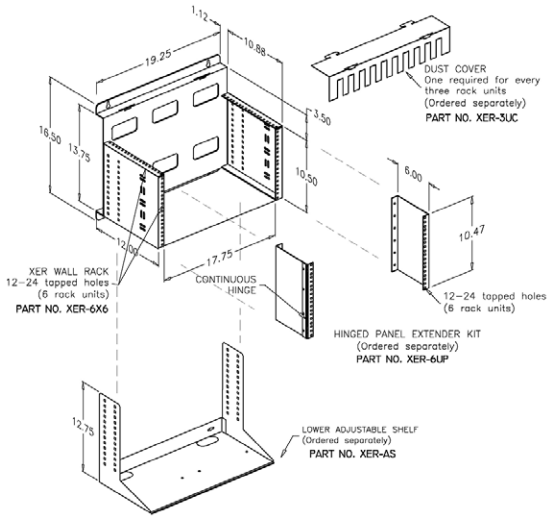


Wall Mount Racks

Wall mount racks are available in two styles: hinged and swing out. The hinged rack is 12″ (0.30 m) in height and features an adjustable lower shelf. The swing out rack is available in heights of 36″ (0.91 m) and 48″ (1.21 m) with 19″ (0.48 m) mounting rails. 2U, 4U and 6U wall mount racks are also offered.

Description	Mounting	Weight		Belden Part Number
		lbs.	kg	
Swing Out Rack				
36″ (0.91 m) Wall Mount Swing-out Rack, 19″ (0.48 m) Mounting Rails x 12″ (0.30 m) Fixed Depth	18U	30	14	**BWR-3619-12**
36″ (0.91 m) Wall Mount Swing-out Rack, 19″ (0.48 m) Mounting Rails x 18″ (0.45 m) Depth	18U	30	14	**BWR-3619-18**
48″ (1.21 m) Wall Mount Swing-out Rack, 19″ (0.48 m) Mounting Rails, 11.5″ - 15.5″ (0.29 m - 0.39 m) Adjustable Depth	25U	39	18	**BWR-4819**
48″ (1.21 m) Wall Mount Swing-out Rack, 19″ (0.48 m) Mounting Rails x 12″ (0.30 m) Fixed Depth	25U	39	18	**BWR-4819-12**
48″ (1.21 m) Mount Swing-out Rack, 19″ (0.48 m) Mounting Rails x 18″ (0.45 m) Depth	25U	39	18	**BWR-4819-18**
Hinged Rack				
12″ (0.30 m) Wall Mount Rack, Hinged 19″ (0.48 m) Mounting Rails x 9″ (0.22 m) Fixed Depth	6U	26	12	**BWR-1219**
Wall Mount Bracket				
2U Wall Mount Bracket, Black	2U	4	2	**AX100785**
4U Wall Mount Bracket, Black	4U	8	4	**AX100786**
4U Wall Mount Bracket w/2U Swivel				**AX102514**
6U Wall Mount Rack				
6U Wall Mount Rack with 6U Top and 6U Front Rack Space, Tapped 12-24 EIA	6″ (0.15 m)	17	8	**BER-6X6**
Bottom Accessory Shelf	–	–	–	**BER-AS**
Front Mounted Swing-out Patch Panel Kit, 6U	–	–	–	**BER-6UP**
Single, 3U Space Top Dust Cover	–	–	–	**BER-3UC**

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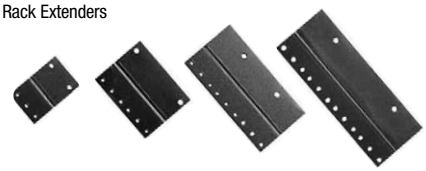
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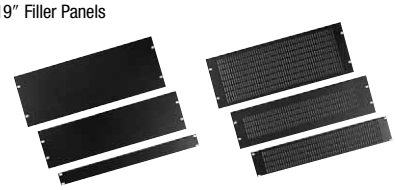
Open Frame Rack Accessories & Cable/Cord Management Units

Extender Brackets, Filler Panels, Patch Cord Organizers

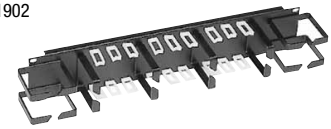
Rack Extenders



19″ Filler Panels



B9511-1902



B9510-1901



B9512-1901



Top: B9512-1902
Bottom: B9512-1902



Open Frame Rack Extender Brackets

The open frame rack extender brackets are used to extend a 19″ (0.48 m) panel/equipment mounting for 23″ (0.58 m).

Description	Belden Part Number
1U 23″ (0.58 m) EIA To 19″ (0.48 m) EIA Extender Bracket	**B9810-0100**
2U 23″ (0.58 m) EIA To 19″ (0.48 m) EIA Extender Bracket	**B9811-0200**
3U 23″ (0.58 m) EIA To 19″ (0.48 m) EIA Extender Bracket	**B9812-0300**
4U 23″ (0.58 m) EIA To 19″ (0.48 m) EIA Extender Bracket	**B9813-0400**

Filler Panels

Filler panels are available in solid or vented for improved air flow.

Description	Belden Part Number
1U 19″ (0.48 m) Solid Filler Panel, Grey	**A0644497**
2U 19″ (0.48 m) Solid Filler Panel, Grey	**A0644499**
1U 19″ (0.48 m) Solid Filler Panel, Black	**B9910-0100**
2U 19″ (0.48 m) Solid Filler Panel, Black	**B9911-0200**
3U 19″ (0.48 m) Solid Filler Panel, Black	**B9912-0300**
4U 19″ (0.48 m) Solid Filler Panel, Black	**B9913-0400**
2U 19″ (0.48 m) Vented Filler Panel, Black	**B9914-0200**
3U 19″ (0.48 m) Vented Filler Panel, Black	**B9915-0300**
4U 19″ (0.48 m) Vented Filler Panel, Black	**B9916-0400**

Patch Cord Organizers

The patch cord organizers keep wires and cable under control.
Among the many features of the patch cord organizers are:

- Horizontal/vertical patch cord management
- Front/rear management
- Removable covers
- Bend radius control

Description	Belden Part Number
1U 19″ (0.48 m) Cable Organizer	**B9510-1901**
2U 19″ (0.48 m) Cable Organizer with Saddle Rings	**B9511-1902**
1U 19″ (0.48 m) Rack Mount Cable Organizer with Finger Stock and Cover (1.5″ x 2″, 0.038 x 0.050 m)	**B9512-1901**
2U 19″ (0.48 m) Rack Mount Cable Organizer with Finger Stock and Cover (3″ x 3″, 0.076 x 0.076 m)	**B9512-1902**
2U 19″ (0.48 m) Cable Organizer with Finger Stock and Cover Front and Rear	**B9512-1902-FR**
2U 19″ (0.48 m) Cable Organizer with Quick Touch (2″ x 3″, 0.050 x 0.076 m)	**B9513-1902**
1U 19″ (0.48 m) Cable Organizer with Radius (Waterfall)	**B9514-1901**
1U 23″ (0.58 m) Cable Organizer	**B9610-2301**
2U 23″ (0.58 m) Cable Organizer with Saddle Rings	**B9611-2302**

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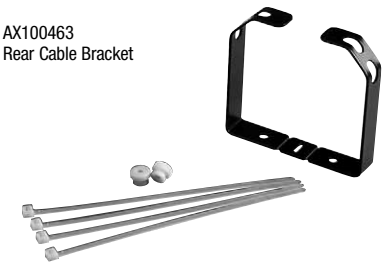
Open Frame Rack Accessories & Cable/Cord Management Units

Ring Panels, Organizer Trays, Brackets & Patch Cord Channel

AX100249 Organizer Tray, 3U



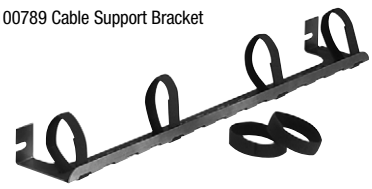
AX100463
Rear Cable Bracket



AX101173 Cable Tie Bar



AX100789 Cable Support Bracket



AX100793 Patch Cord Organizer Channel



A0396695 Organizer Ring Panel, 2U



A0644488 Organizer Panel, 1U



Open Frame Rack Cable and Patch Cord Management

The open frame rack cable and patch cord management accessories can be used with patch panels in open frame racks for distribution cable and patch cord organization, routing and protection. They allow easier cord access and simplify moves, additions and changes.

Description	Mounting	Belden Part Number
Organizer Ring Panel, Grey	2U	**A0396695**
Organizer Ring Panel, Black	2U	**A0403977**
Organizer Panel, Grey	1U	**A0644488**
Organizer Panel, Black	1U	**A0644489**
Organizer Panel, Grey	2U	**A0644490**
Organizer Panel, Black	2U	**A0644492**
Organizer Tray, Grey	3U	**AX100248**
Organizer Tray, Black	3U	**AX100249**
Rear Cable Bracket, Grey	–	**AX100462**
Rear Cable Bracket, Black	–	**AX100463**
Cable Support Bracket, Grey	0U	**AX100788**
Cable Support Bracket, Black	0U	**AX100789**
Patch Cord Organizer Channel, Grey	1U	**AX100792**
Patch Cord Organizer Channel, Black	1U	**AX100793**
Patch Cord Organizer Channel, Grey	2U	**AX100794**
Patch Cord Organizer Channel, Black	2U	**AX100795**
Patch Cord Organizer Channel, Grey	4U	**AX100796**
Patch Cord Organizer Channel, Black	4U	**AX100797**
Cable Tie Bar, Black	0U	**AX101173**

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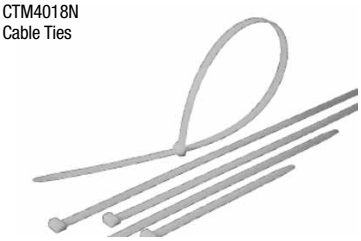
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Cable Ties

Miniature, Intermediate, Standard & Heavy-Duty

CTM4018N
Cable Ties



CTM4018B
Cable Ties



Cable Ties

The cable ties line features miniature, intermediate, standard and heavy duty cable ties. They are available in tensile strengths ranging from 8 to 80 kg (18 to 175 lbs.) and are manufactured from various grades of nylon including weather-resistant nylon for use in sunshine/outdoor applications. They are offered in lengths from 4″ (0.10 m) to 48″ (1.21 m). Color: natural (indoor), black (outdoor). Velcro cable ties are also available.

Description	Length		Width		Loop Tensile Strength		Max. Bundled Diameter		Belden Part Number
	inch	mm	inch	mm	lbs.	N	inch	mm	
Miniature 8 kg (18 lbs.) Tensile Strength									
Nylon Cable Tie, 100 pcs, Natural, 4″ (0.10 m)	3.9	100	0.098	2.5	18	80	1.0	25	**CTM4018N**
Nylon Cable Tie, 100 pcs, Natural, 5.5″ (0.13 m)	5.6	142	0.098	2.5	18	80	1.4	35	**CTM5P18N**
Nylon Cable Tie, 100 pcs, Natural, 8″ (0.20 m)	8.0	203	0.098	2.5	18	80	2.2	55	**CTM8018N**
Intermediate 18 kg (40 lbs.) Tensile Strength									
Nylon Cable Tie, 100 pcs, Natural, 5.5″ (0.13 m)	5.6	142	0.125	3.2	40	178	1.4	35	**CTI5P40N**
Nylon Cable Tie, 100 pcs, Natural, 8″ (0.20 m)	8.0	203	0.141	3.6	40	178	2.2	55	**CTI8040N**
Nylon Cable Tie, 100 pcs, Natural, 11″ (0.27 m)	11.5	292	0.141	3.6	40	178	3.3	85	**CTI11P40N**
Nylon Cable Tie, 100 pcs, Natural, 14.5″ (0.36 m)	14.5	368	0.141	3.6	40	178	4.0	103	**CTI14P40N**
Weather Resistant Nylon Cable Tie, 100 pcs, Black, 5.5″ (0.13 m)	5.6	142	0.125	3.2	40	178	1.4	35	**CTI5P40BW**
Weather Resistant Nylon Cable Tie, 100 pcs, Black, 8″ (0.20 m)	8.0	203	0.141	3.6	40	178	2.2	55	**CTI8040BW**
Weather Resistant Nylon Cable Tie, 100 pcs, Black, 11.5″ (0.29 m)	11.5	292	0.141	3.6	40	178	3.3	85	**CTI11P40BW**
Weather Resistant Nylon Cable Tie, 100 pcs, Black, 14.5″ (0.36 m)	14.5	368	0.141	3.6	40	178	4.0	103	**CTI14P40BW**
Standard 22 kg (50 lbs.) Tensile Strength									
Nylon Cable Tie, 100 pcs, Natural, 8″ (0.20 m)	8.0	203	0.180	4.6	50	222	2.2	55	**CTS8050N**
Nylon Cable Tie, 100 pcs, Natural, 11″ (0.27 m)	11.0	280	0.188	4.8	50	222	3.2	81	**CTS1150N**
Nylon Cable Tie, 100 pcs, Natural, 14.5″ (0.36 m)	14.5	368	0.188	4.8	50	222	4.0	103	**CTS14P50N**
Nylon Cable Tie, 100 pcs, Natural, 17.75″ (0.45 m)	17.7	450	0.188	4.8	50	222	5.1	131	**CTS17P50N**
Weather Resistant Nylon Cable Tie, 100 pcs, Black, 8″ (0.20 m)	8.0	203	0.180	4.6	50	222	2.2	55	**CTS8050BW**
Weather Resistant Nylon Cable Tie, 100 pcs, Black, 11.5″ (0.29 m)	11.0	280	0.188	4.8	50	222	3.2	81	**CTS1150BW**
Weather Resistant Nylon Cable Tie, 100 pcs, Black, 14.5″ (0.36 m)	14.5	368	0.188	4.8	50	222	4.0	103	**CTS14P50BW**
Weather Resistant Nylon Cable Tie, 100 pcs, Black, 17.75″ (0.45 m)	17.7	450	0.188	4.8	50	222	5.1	131	**CTS17P50BW**
Heavy Duty 54 kg (120 lbs.) Tensile Strength									
Nylon Cable Tie, 100 pcs, Natural, 15″ (0.38 m)	15.0	380	0.298	7.6	120	533	4.3	111	**CTH15120N**

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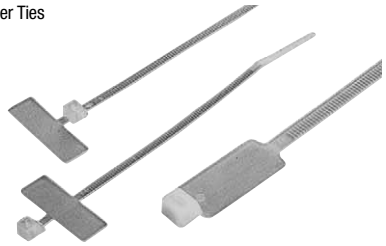
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Cable Ties

Marker Ties, Cable Tie Mounts

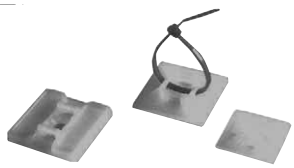
Marker Ties



Description	Length		Width		Loop Tensile Strength		Max. Bundled Diameter		Belden Part Number
	inch	mm	inch	mm	lbs.	N	inch	mm	
Heavy Duty Nylon Cable Tie 80 kg (175 lbs.) Tensile Strength									
100 pcs, Natural, 17.75″ (0.45 m)	17.7	450	0.313	8.0	175	778	5.2	134	**CTH17P175N**
100 pcs, Natural, 21.7″ (0.55 m)	21.7	550	0.313	8.0	175	778	6.5	167	**CTH21P175N**
100 pcs, Natural, 36″ (0.91 m)	36.0	914	0.352	9.0	175	778	10.6	271	**CTH36P175N**
100 pcs, Natural, 48″ (1.21 m)	48.0	1219	0.352	9.0	175	778	15.0	382	**CTH48P175N**
Mount Ties									
100 pcs, Natural, 18 kg (40 lbs.), 6″ (0.15 m)	6.7	171	0.145	3.7	40	178	1.6	40	**CTI6040NM**
100 pcs, Natural, 22 kg (50 lbs.), 11.57″ (0.29 m)	11.8	300	0.188	4.8	50	222	3.3	85	**CTS11P50NM**
100 pcs, Natural, 22 kg (50 lbs.), 14.5″ (0.36 m)	14.6	370	0.188	4.8	50	222	4.0	103	**CTS14P50NM**

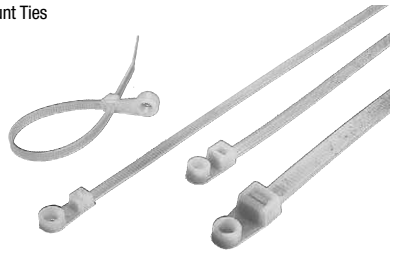
Cable Tie Mounts





Description	Length		Width		Loop Tensile Strength		Max. Bundled Diameter		Marking Pad		Belden Part Number
	inch	mm	inch	mm	lbs.	N	inch	mm	inch	mm	
Marker Ties 8 kg (18 lbs.) Tensile Strength											
100 pcs, Natural, 4″ (0.10 m)	3.9	100	0.098	2.5	18	80	1.0	25	0.98 x 0.31	25 x 8	**CTM4018NMK**
100 pcs, Natural, 4.25″ (0.10 m)	4.3	110	0.098	2.5	18	80	1.0	25	0.98 x 0.32	26 x 8	**CTM4P18NMK**
100 pcs, Natural, 5″ (0.12 m)	5.1	130	0.098	2.5	18	80	1.0	25	1.10 x 0.79	28 x 20	**CTM5018NMK**
100 pcs, Natural, 8″ (0.20 m)	7.9	200	0.098	2.5	18	80	2.0	50	1.18 x 0.59	30 x 15	**CTM8018NMK**
Marker Ties 22.5 kg (50 lbs.) Tensile Strength											
100 pcs, Natural, 8″ (0.20 m)	7.9	200	0.180	4.6	50	222	2.0	50	1.10 x 0.51	28 x 13	**CTS8050NMK**
100 pcs, Natural, 10.5″ (0.26 m)	10.6	270	0.180	4.6	50	222	3.0	75	1.10 x 0.51	28 x 13	**CTS10P50NMK**

Mount Ties



Description	Length		Width		Mounting Method	Belden Part Number
	inch	mm	inch	mm		
Cable Tie Mounts						
Cable Tie Mount S.A. M, 100 per Bag	0.49	12.5	0.49	12.5	Self Adhesive	**TM100S4**
Cable Tie Mount S.A. M-I, 100 per Bag	0.75	19.0	0.74	19.0	#4 M2.5 Screw + Self Adhesive	**TM101SS2**
Cable Tie Mount S.A. M-I-S, 100 per Bag	1.10	28.0	1.10	28.0	#4 M2.5 Screw + Self Adhesive	**TM102**
Cable Tie Mount Sc. M-I, 100 per Bag	0.50	12.8	0.27	7.0	#4 M2.5 Screw	**TM1**
Cable Tie Mount Sc. I-S-HD, 100 per Bag	0.91	23.0	0.63	16.0	1/4 M6 Screw	**TM2**
Cable Tie Mount Sc. I-S-HD, 100 per Bag	1.18	30.0	0.58	14.7	#10 M5 Screw	**TM4**

These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

Cable mounts compatible with following cable tie cross section.
S.A. = Self Adhesive • M = Miniature • Sc. = Screw on type • I = Intermediate • S = Standard • HD = Heavy Duty

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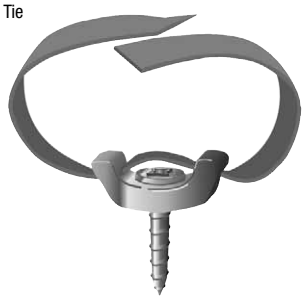
Cable Ties

Velcro Ties, Saddles, Saddle Ties

AX100781
Velcro Saddle



AX102512
Saddle Tie



AX102516
12≤ Fiber Optic Cable Manager



Description	Belden Part Number
Velcro Cable Ties	
Velcro Cable Ties, 25 per Roll, 8″ (0.20 m)	**AX100783**
Velcro Cable Ties, 25 per Roll, 12″ (0.30 m)	**AX100784**
Velcro Saddle, 25 pcs	**AX100781**
Velcro Saddle Kit with #8 Wood Screw, 10 pcs	**AX102512**
Velcro Saddle Kit with 10/32 Rack Screw, 10 pcs	**AX102513**
15′ (4.6 m) Roll x 5/8″ (0.20 m) Polywrap, Cut to Length as required	**AX102515**
12″ (0.30 m) Fiber Optic Cable Manager	**AX102516**
24″ (0.60 m) Fiber Optic Cable Manager	**AX102517**

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13 Surface Raceway Systems

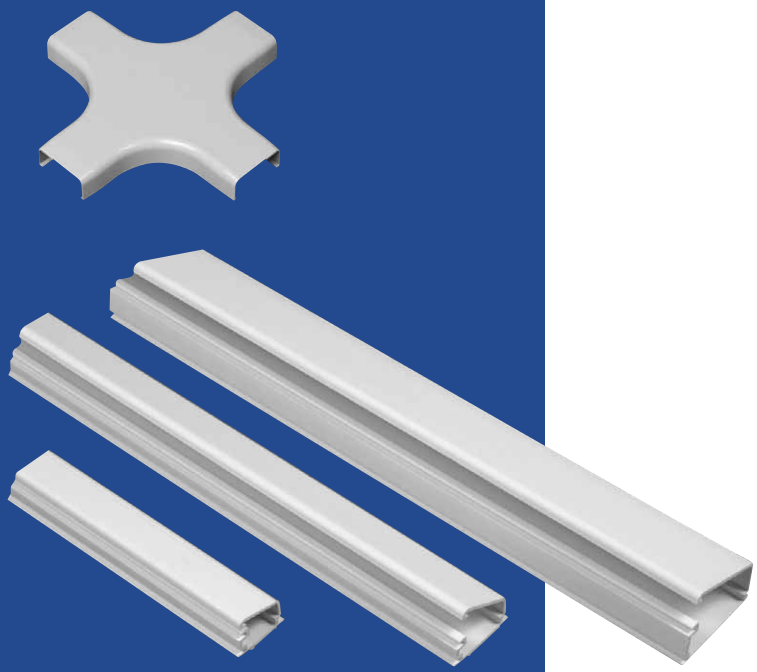


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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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One-Piece Latching Raceway

BFT-Style Surface Raceway Systems



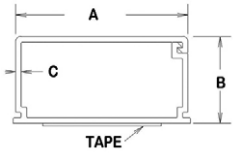
Surface Raceway System

The surface raceway system is a functional, affordable, attractive solution for wire enclosure applications in commercial, industrial and residential environments. The product line includes extruded raceways with pre-applied adhesive backings, fittings, and adapter boxes.

- One-piece design features patented hinge (Lid can be opened in any mounting position.)
- Parts are made of a strong, durable, lightweight, UL 94-VO compliant PVC
- UL 5A specification for 600 volt applications
- One inch (0.025 m) minimum bend radius accessories available for Category 5e, 6 and fiber optic installations

All products are fully paintable and available in three sizes:

- 3/4″ x 1/2″ (0.700 x 0.050 m, Model No. 03SR)
- 1″ x 1/2″ (0.025 x 0.050 m, Model No. 05SR)
- 1-1/2″ x 3/4″ (0.050 x 0.700 m, Model No. 09SR)



Description	Dimensions								Belden Part Number
	A		B		C		Tape Width		
	inch	mm	inch	mm	inch	mm	inch	mm	
One-piece Latching Raceway									
03SR White, 2.4 m (8 ft.), 20 pcs 3/4″ x 1/2″ (0.700 x 0.050 m)	0.760	19.3	0.505	12.8	0.050	1.27	0.500	12.7	**BFT-03SRW8**
05SR White, 2.4 m (8 ft.), 20 pcs 1″ x 1/2″ (0.025 x 0.050 m)	1.010	25.7	0.505	12.8	0.050	1.27	0.750	19.1	**BFT-05SRW8**
09SR White, 2.4 m (8 ft.), 20 pcs 1-1/2″ x 3/4″(0.050 x 0.700 m)	1.500	38.1	0.755	19.2	0.050	1.27	1.000	25.4	**BFT-09SRW8**

These products are in the process of being assessed for RoHS compliance.
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Area of Raceway

Modell No.	sq. in.	mm²
03SR	0.259	167.10
05SR	0.488	314.84
09SR	0.827	533.55

See chart on page 13.4 for Raceway fill capacities.

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Accessories & Adapter Boxes

BFT-CE03W Ceiling Entry



BFT-EC03W End Cap



BFT-FO03W High Radius Elbow



BFT-9003W Flat Elbow



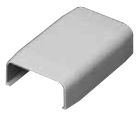
BFT-IN30W Inside Corner



BFT-OC03W Outside Corner



BFT-SC03W Splice Cover



BFT-3T03W 3-Way Tee



BFT-4T03W 4-Way Tee



AX102610 MediaFlex Double Gang Adapter Box



Surface Raceway System Accessories

A wide variety of accessories are available for the surface raceway system including:

- Ceiling entries
- End caps (end cap doubles as reducer to all three raceway sizes)
- High radius elbows
- Flat elbows
- Inside corners
- Splice covers
- Outside corners
- 3-way and 4-way tees

Description	Belden Part Number		
	03SR	05SR	09SR
Ceiling Entry, White, 10 pcs	**BFT-CE03W**	**BFT-CE05W**	**BFT-CE09W**
Splice Cover, White, 10 pcs	**BFT-SC03W**	**BFT-SC05W**	**BFT-SC09W**
End Cap, White, 10 pcs	**BFT-EC03W**	**BFT-EC05W**	**BFT-EC09W**
3-way Tee, White, 10 pcs	**BFT-3T03W**	**BFT-3T05W**	**BFT-3T09W**
Flat 90 Elbow, White, 10 pcs	**BFT-9003W**	**BFT-9005W**	**BFT-9009W**
Inside Corner, White, 10 pcs	**BFT-IN03W**	**BFT-IN05W**	**BFT-IN09W**
Outside Corner, White, 10 pcs	**BFT-OC03W**	**BFT-OC05W**	**BFT-OC09W**
4-way Tee, White, 10 pcs	**BFT-4T03W**	**BFT-4T05W**	**BFT-4T09W**
High Radius Elbow, White, 10 pcs	**BFT-FO03W**	**BFT-FO05W**	**BFT-FO09W**

Surface Raceway System Adapter Boxes

MediaFlex surface adapter boxes are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets. MediaFlex surface adapter boxes are designed to work with Belden surface raceway systems. The MediaFlex surface adapter boxes are available in single and double gang configuration.

- Good depth allow more room for cable management and bend radius
- Comes with mounting plate for added installation flexibility
- No special tools required, therefore reduces installation time
- Sturdy design for excellent durability and network protection
- Modern unique aesthetic design

Description	Belden Part Number
MediaFlex Single Gang Adapter Box, Standard, White	**AX102611**
MediaFlex Double Gang Adapter Box, Standard, White	**AX102610**

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Technical Information

Raceway Fill Capacity Chart

Wire Type	Wire Diameter		Wire Area		Number of Cables per Raceway		
	inch	mm	sq. in.	mm²	03SR	05SR	09SR
Building Wire THHN							
14 AWG	0.108	2.74	0.0092	5.935	**3**	**5**	**9**
12 AWG	0.126	3.20	0.0125	8.065	**2**	**4**	**7**
10 AWG	0.170	4.32	0.0227	14.645	**1**	**2**	**4**
Signal Wire UL Style 1061 • 300V 80 C°*							
18 AWG	0.066	2.74	0.0034	2.194	**30**	**57**	**97**
20 AWG	0.066	1.68	0.0028	1.806	**37**	**69**	**117**
22 AWG	0.050	1.27	0.0020	1.290	**53**	**99**	**169**
24 AWG	0.045	1.14	0.0016	1.032	**65**	**123**	**208**
Unshielded Twisted Pair Wire (UTP) 24 AWG*							
2-pair	0.140	3.56	0.0154	9.935	**7**	**13**	**22**
3-pair	0.150	3.81	0.0177	11.419	**6**	**11**	**19**
4-pair Cat 5e, Cat 6	0.220	5.59	0.0380	24.516	**3**	**5**	**9**
25-pair	0.510	12.95	0.2042	131.742	**0**	**1**	**2**
Twisted Pair Wire (Shielding)*							
4-pair 24 AWG	0.250	6.35	0.0491	31.677	**2**	**4**	**7**
25-pair 24 AWG	0.510	12.95	0.2042	131.742	**0**	**1**	**2**
Type 1A 22 AWG	0.430	10.92	0.1451	93.613	**1**	**1**	**2**
Coax Cable (Max.)							
RG-58/U	0.193	4.90	0.0292	18.839	**4**	**7**	**11**
RG-59/U, RG-62/U	0.242	6.15	0.0460	29.677	**2**	**4**	**7**
RG-6/U	0.270	6.86	0.0572	36.903	**2**	**3**	**6**
Fiber Optic Cable 62.5/125/900, PVC Jacket, OFNR*							
2-strand	0.175	4.45	0.0240	15.484	**4**	**8**	**14**
4-strand	0.185	4.70	0.0269	17.355	**4**	**7**	**12**
6-strand	0.210	5.33	0.0346	22.323	**3**	**6**	**10**

* Based on 40% fill ratio

Area of Raceway

Modell No.	sq. in.	mm²
03SR	0.259	167.10
05SR	0.488	314.84
09SR	0.827	533.55

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PowerSense® PoE Products

14

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Introduction

Release the Power

Consistent with Belden's commitment to quality and innovation, we offer PowerSense™ high-performance power distribution equipment for the efficient and reliable delivery of power over ethernet.

What is Power over Ethernet?

Power over ethernet refers to the ability to power network devices directly over the existing data connection, eliminating the need for an external power supply for each device. With power over ethernet, devices such as IP telephones, wireless LAN access points, security cameras and other enterprise terminals can safely receive power over legacy Category 5 or better LAN cabling without modifying the existing infrastructure. Power over ethernet is also a necessity for the Voice-over-IP (VoIP) solution as this service requires an alternative power source for IP phones.

Power over ethernet consists of two essential components: the power-sourcing equipment (PSE) and the powered devices (PD).

PowerSense – The Cutting-Edge, Modular Approach to Power over Ethernet

Midspan hubs are power-sourcing equipment. These hubs are patch panel-like devices that are installed between the existing ethernet switch and the devices to be powered (see figure). They add power to the spare pairs of a data cable without disturbing the transmission of the data.

Belden PowerSense midspan hubs provide these unprecedented features:

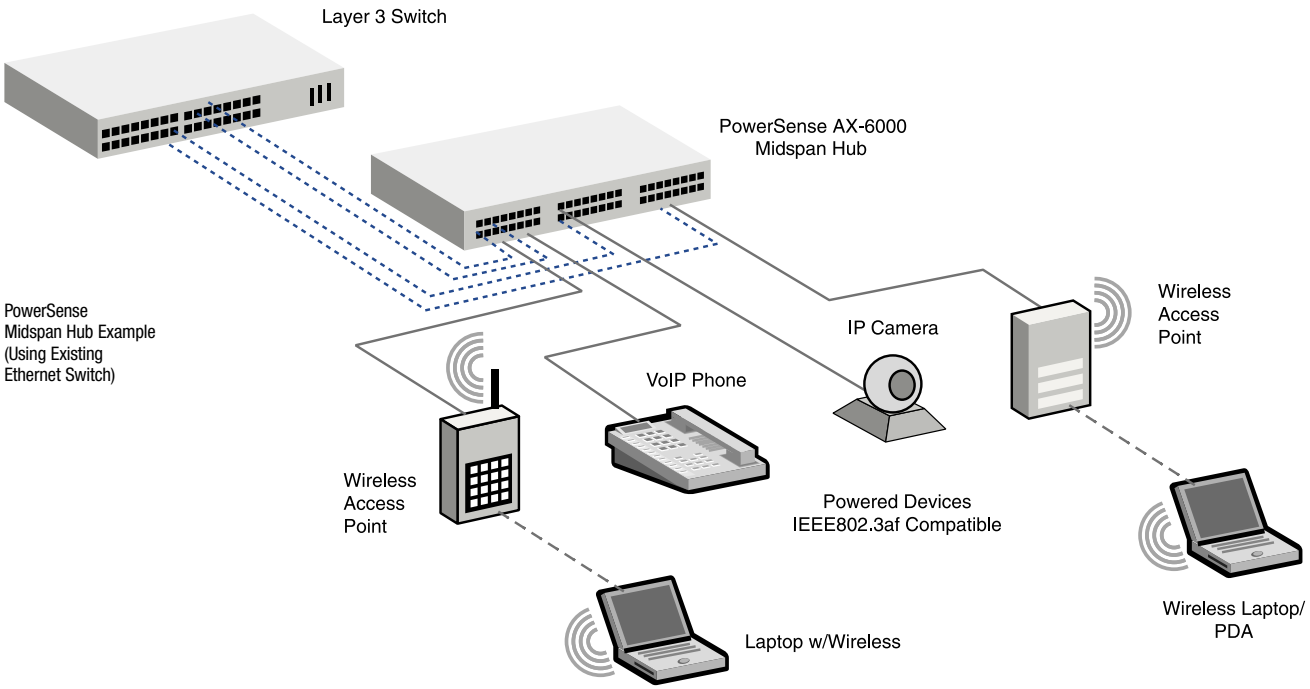
- Full compliance with IEEE 802.3af standards (PoE Protocol)
- Module options for 48V, 24V, 12V and Cisco CDP™ protocols
- FCC, CE and CB tested and approved for worldwide use
- Modular chassis: 24-, 20-, 10-, 8- and 1-port designs
- Assured safety: each module auto-detects the device's power requirements before forwarding power; modules allow for transparent 10/100 Mb and management operations
- Each module port is voltage isolated with user replaceable fuses and is "hot swappable."

Key benefits of PowerSense include:

- Work in conjunction with existing ethernet infrastructure and structured cabling, including the ethernet switches or shared media devices.
- Are the optimal solution for applications such as WLAN, VoIP, web-based security cameras and access control devices.
- Provide a scaleable solution: since PowerSense hubs are modular, new modules can be added as required.
- Allows a fast recovery from an internal power fault condition; modules may be hot swapped.
- Reduce the total cost of ownership.

Advanced Replacement Warranty

All PowerSense products have a full 2-year warranty for product quality and durability. We also offer an advanced replacement warranty which means that if a PowerSense product needs to be replaced, a new unit will be immediately shipped.



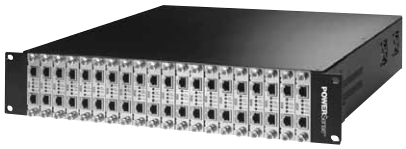
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Power Over Ethernet Midspan Hubs

PowerSense AX-8000 Series
Modular Multiport

PowerSense 20-port Midspan Hub
IEEE 802.3af compatible



AX-8510 PowerSense10-port Midspan Hub
IEEE 802.3af compatible



PowerSense Modules



AX-8000 PowerSense Series

The AX-8000 modular multiport in-line power hub includes 20-slot and 10-slot modular chassis units which may be populated with any combination of PowerSense modules. The individual modules are all hot swappable and fully voltage isolated from each other. These units help reduce costs and downtime by allowing individual modules to be removed or inserted while the chassis and all other modules remain operational.

Modules can be mixed and matched to support CDP™ devices, IEEE 48-Volt, 24-Volt or 12-Volt applications within the same chassis. Power IP phones, wireless access points, security cameras and other low voltage devices safely and efficiently. A single port model is also available (see page 14.4) in any of the module styles for single device powering applications.

Description	Belden Part Number
AX-8000 PowerSense Series — Multiport	
Chassis Only (without Modules)	
20-slot PowerSense Chassis – 19″ (0.48 mm) Rack Mount Ready	**AX-8220**
10-slot PowerSense Chassis – with Rubber Feet	**AX-8210**
10-slot PowerSense Chassis – 19″ (0.48 mm) Rack Mount Kit	**AX-8210-RM**
10-slot PowerSense Chassis – Wall Mount Kit	**AX-8210-WM**
Chassis Complete with 20 Standard Power Chassis Modules	
20 Power and Data Modules – 12 Volt Protocol	**AX-8320**
20 Power and Data Modules – 24 Volt Protocol	**AX-8420**
20 Power and Data Modules – IEEE 802.3af compatible	**AX-8520**
20 Power and Data Modules – Cisco CDP Protocol	**AX-8620**
Chassis Complete with 10 Standard Power Chassis Modules	
10 Power and Data Modules – 12 Volt Protocol	**AX-8310**
10 Power and Data Modules – 24 Volt Protocol	**AX-8410**
10 Power and Data Modules – IEEE 802.3af compatible	**AX-8510**
10 Power and Data Modules – Cisco CDP Protocol	**AX-8610**
Standard Power Chassis Modules (for devices up to 15.4 watts, uses 1 Slot)	
Power and Data Module – 12 Volt Protocol	**AX-8300**
Power and Data Module – 24 Volt Protocol	**AX-8400**
Power and Data Module – IEEE 802.3af compatible	**AX-8500**
Power and Data Module – Cisco CDP Protocol	**AX-8600**
High Wattage Chassis Modules (for devices up to 20 watts, uses 2 Slots)	
Double Wide Power and Data Module – 12 Volt Protocol	**AX-8300HW**
Double Wide Power and Data Module – IEEE 802.3af compatible	**AX-8500HW**
Double Wide Power and Data Module – Cisco CDP Protocol	**AX-8600HW**
Custom Power Chassis Modules (for specific Products)	
Power and Data Module, Supports AXIS 205 Camera, 12V	**AX-8300AXIS205**
Power and Data Module, Supports AXIS 2120 Camera, 12V	**AX-8300AXIS2120**
Power and Data Module, Supports IndigoVision Camera, 12V	**AX-8300IVC100**
Power and Data Module, Supports SONY SNCRZ30N Camera, 12V	**AX-8300SNCRZ30N**
Power and Data Module, Supports SAVI Products, 12V	**AX-8300SR600101**
Power and Data Module, Supports IQinvision IQEYE3 Camera, 24V	**AX-8400IQEYE3**
Power and Data Module, Supports Trango Broadband AP, 24V	**AX-8400M58305AP**
Power and Data Module, Supports Mobotix MX-D-03 Camera, 24V	**AX-8400MXD03**
Power and Data Module, Supports Smarteye Camera, 24V	**AX-8400SP400101**
Chassis Cover Plates (for unused Slots)	
Single-slot Cover Plate	**AX-8201**
Two-slot Cover Plate	**AX-8202**
Five-slot Cover Plate	**AX-8205**
Six-slot Cover Plate	**AX-8206**

Visit www.beldenibdn.com for a product compatibility list. These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

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Power Over Ethernet Midspan Hubs

PowerSense AX-8000 Series
Single-Port

PowerSense 1-Port Midspan Hub
IEEE 802.3af compatible



AX-8000 PowerSense Series

For single device powering applications, this single-port version of the popular AX-8000 PowerSense series of modular in-line power hubs is available in any of the same module styles as the multiport version. Modules can support CDP™ devices, IEEE 48-Volt, 24-Volt or 12-Volt applications to power IP phones, wireless access points, security cameras and other low-voltage devices safely and efficiently.

Description	Belden Part Number
AX-8000 PowerSense Series — Single Port Hubs	
Standard Power Modules	
Single Power and Data Port – 12V Power and Data compatible	**AX-8351**
Single Power and Data Port – 24V Power and Data compatible	**AX-8451**
Single Power and Data Port – IEEE 802.3af compatible	**AX-8551**
Single Power and Data Port – Cisco CDP Protocol	**AX-8651**
High Wattage (for devices up to 20 watts, with power supply)	
Double Wide Power and Data Module – 12 Volt Protocol	**AX-8351HW**
Double Wide Power and Data Module – IEEE 802.3af compatible	**AX-8551HW**
Double Wide Power and Data Module – Cisco CDP Protocol	**AX-8651HW**
Custom power Modules, with power supply	**Various Part Numbers**

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Power Over Ethernet Midspan Hubs

PowerSense AX-6000 Series
24-Port, 8-Port Module

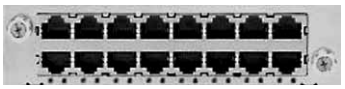
PowerSense 24-Port Midspan Hub
IEEE 802.3af compatible



PowerSense 8-Port Midspan Hub
IEEE 802.3af compatible



Individual Chassis Module



AX-6000 PowerSense Series 24-Port

The AX-6000 modular multiport in-line power hub safely and efficiently provides power over LAN data cabling for VoIP phones, wireless networking access points, IP security cameras and other remote network devices.

The PowerSense in-line power hub provides power to LAN devices without the use of an external power supply for each device. Power is supplied over the existing LAN data cabling system. This greatly increases the flexibility of installation and possible locations for such devices, no longer requiring them to be located near a power outlet. It also adds an unprecedented level of safety and reliability for powered LAN devices.

The PowerSense hub is a **24-port rack-mount chassis** powering up to 24 devices. Each **8-port module** is hot-swappable and modules may be added to the chassis without powering down the unit. If an individual power port is damaged due to a lightning strike or power surge, the module bank may be hot swapped out without powering down the chassis or disconnecting the other devices attached to the other power ports in the chassis.

When used with an uninterruptible power supply, the PowerSense hub provides continuous power for up to 24 connected devices. PowerSense is tough and durable, made with an all metal chassis.

PowerSense operates on Category 5, 5e or 6 grade LAN data cable at standard ethernet distances. The AX-6000 series supports powered devices requiring the IEEE 802.3af PoE protocol.

Description	Belden Part Number
AX-6000 PowerSense Series 24-port	
Chassis Only (without Modules)	
PowerSense Chassis, 3 Slots, each slot holds one Module	**AX-6224**
PowerSense Chassis, 1 Slot, holds one Module	**AX-6208**
1-slot Chassis (with one standard 6500 Module installed)	
8 Power and Data Ports – IEEE 802.3af compatible, 10/100 Mb/s	**AX-6108**
Optional 19″ (0.48 m) Rack Mount Kit for one slot Chassis	**AX-6108-RM**
3-slot Chassis (with up to three standard 6500 Modules installed)	
24 Power and Data Ports – IEEE 802.3af compatible, 10/100 Mb/s	**AX-6524**
16 Power and Data Ports and one Cover Plate – IEEE 802.3af compatible	**AX-6516**
8 Power and Data Ports and two Cover Plates – IEEE 802.3af compatible	**AX-6508**
3-slot Chassis GIG (with up to three 6500GIG Modules installed)	
24 Power and Data Ports – IEEE 802.3af compatible, 10/100/1000 Mb/s	**AX-6524GIG**
16 Power and Data Ports and one Cover Plate – IEEE 802.3af compatible	**AX-6516GIG**
8 Power and Data Ports and two Cover Plates – IEEE 802.3af compatible	**AX-6508GIG**
3-slot Chassis HW4 (with up to three 6500HW4 Modules installed)	
12 Power and Data Ports – RJ-45, IEEE, High Power (36 watts per port) 10/100 Mb/s	**AX-6512HW4**
8 Power and Data Ports – RJ-45, IEEE, High Power (36 watts per port) 10/100 Mb/s	**AX-6508HW4**
4 Power and Data Ports – RJ-45, IEEE, High Power (36 watts per port) 10/100 Mb/s	**AX-6504HW4**
Spare Chassis Modules (individual; fits one or three Slot Chassis)	
8 Power and Data Ports – RJ-45, IEEE 802.3af compatible, 10/100 Mb/s	**AX-6500**
8 Power and Data Ports – RJ-45, IEEE 802.3af compatible, 10/100/1000 Mb/s	**AX-6500GIG**
4 Power and Data Ports – RJ-45, IEEE, High Power (37 watts per port) 10/100 Mb/s	**AX-6500HW4**
Chassis Cover Plates (for unused Slots)	
Single Module Cover Plate (covers one Module slot)	**AX-6201**

Visit www.beldenibdn.com for a product compatibility list.
These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

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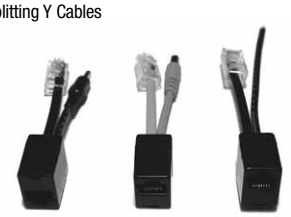
Power Over Ethernet Accessories

PoE Connectors, Data & Power Splitting “Y” Cables

Power over Ethernet Connector



Data Splitting Y Cables



Power over Ethernet Connectors

Power over ethernet connectors allow Cisco 7900 Series VoIP Phones or AP350 or AP1100 to be powered with IEEE 802.3af style 48-Volt power over ethernet.

Power may come from a powered ethernet switch or midspan power hub. Connector installs near powered device. Two LEDs let user know whether power is originating from an ethernet switch or midspan power hub.

Description	Belden Part Number
Connectors	
Input IEEE 802.3af power from any powered Switch or midspan Hub	**AX-8858-01**
Input IEEE 802.3af power from HP Pro Curve powered Switch	**AX-8858-02**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Data & Power Splitting “Y” Cables

Data & power splitting “Y” cables are for 12 Volt applications and feature a RJ-45 female/male and male power pin. They provide precise splitting of the signal for accurate performance. Various plug sizes/applications are listed below.

Description	Belden Part Number
Data Splitting Y Cables	
2.5 mm Plug for AXIS PTA -20, 2100, 2120	**AX-820Y-01**
2.1 mm Plug for Vivotek PTV-20	**AX-820Y-02**
1.3 mm Plug for Intellinet PTI-20	**AX-820Y-03**
No plug, Bare Wire for IVC 100	**AX-820Y-04**
Special Connector for Symbol AP 41XX	**AX-820Y-05**
5.5 mm Barrel w/1.0 mm Center – Sony SNC-RZ30N, Sony PTS-20, AXIS 2130	**AX-820Y-06**
MAXI 7-pin socket for SAVI Products	**AX-820Y-07**
CONXALL 6-pin for SAVI SR-600-101	**AX-820Y-08**
1.0 mm plug for AXIS 205, 210, 230, 241Q/S, 250S	**AX-820Y-09**
2.1 mm plug on 8″ (2.4 m) power wire for Symbol AP 3020 series	**AX-820Y-10**

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BELDEN
SENDING ALL THE RIGHT SIGNALS



15 Commercial Networking – Copper



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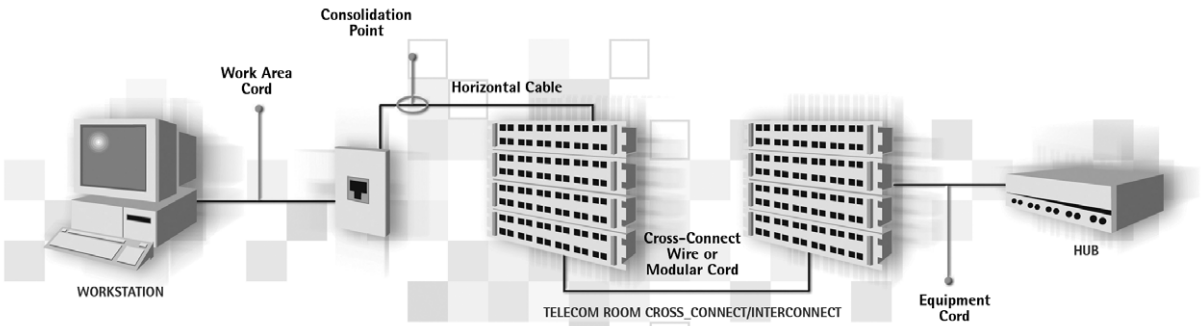
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Introduction

Belden IBDN Networking Components and Systems Overview



The System: Workstation through Hub

Cables that Communicate

Each of the copper cabling components depicted on the following pages is vital to the overall performance of the network, but to achieve optimum network performance you should consider Belden IBDN end-to-end structured cabling systems. Belden IBDN copper structured cabling systems are recognized the world over for their high quality since they are the result of both Belden's exceptional design and manufacturing expertise and the system's ability to outperform the standards.

The Revolutionary Belden IBDN System 10GX (Cat. 6a | 10 Gb/s | 625 MHz)

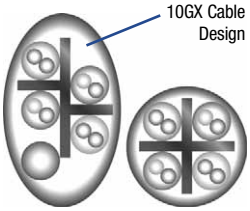
What differentiates our 10GX system from other 10 Gigabit ethernet offerings? The Belden IBDN system 10GX is not an improved or boosted category 6 system, but a revolutionary innovation designed around a series of dynamic enabling technologies. Because the 10GX system solves two major performance issues: (1) a reduction in alien crosstalk to about 15 dB, or 30 times lower than the alien NEXT for 1000BASE-T at a distance of 100 meters, and (2) the system's ability to control insertion loss, return loss, NEXT, PSNEXT, Alien PSNEXT, ELFEXT, PSELFEXT and alien PSFEXT characteristics during high frequency operation – it not only meets the high speed, high bandwidth demands of today's networks, but this advanced solution is ready to meet the challenges of the networks of tomorrow.

System 10GX Performance-Enabling Technologies

The performance of each critical component of the 10GX solution has been optimized through use of the following performance-enabling technologies:

- The system's cable is based upon an innovative SpiralFleX™ design that serves to reduce Alien crosstalk by randomizing the distance between the cables.
- A patent pending IDC design and patch panel circuit layout called MatriX IDC™ technology is utilized to substantially eliminate the issue of Alien crosstalk between the system's modules.
- X-Bar™ technology: The X-Bar is a control device that enables the accurate positioning of each UTP pair before the pair is terminated on the 10GX module's IDC pins.
- A patent pending FleXPoint PCB (printed circuit board) is used within the module housing to position the compensation circuitry directly at the plug's point of contact. Instant compensation delivers excellent crosstalk performance up to 625 MHz!

10GX Cable Design Improves Alien Crosstalk



The major technical challenge for traditional UTP cables resides with the electromagnetic coupling between a cable and its neighboring cables. This coupling is typically enhanced by the fact that all the cable pairs have the same twisting lay and therefore have the same resonance frequencies. Belden's use of SpiralFleX technology introduces randomization in the cable in two ways: (1) it induces with neighboring cables – to accomplish this, a filler is twisted around the four cable pairs – and, (2) to create additional randomization along the full length of the cable, a unique internal cross-web is incorporated into the cable design.

Since these features both increase and randomize the distance between a cable and its neighboring cables, both the ANEXT coupling and RL channel characteristics of the cable are improved. In fact, 10GX Cables were tested in a worst-case scenario – a six-around-one cable environment – and still exhibited performance well over proposed standards. In addition, this unique 10GX Cable design is more flexible and installer-friendly than other 10G cables.

Statistically Controlled Modular Cord Manufacturing

To achieve consistent high performance, Belden uses a statistical process control methodology in its modular cord manufacturing process. This assures perfect tuning between the module and the modular cord and offers improved channel performance. The design of the 10GX modular cord is also based upon a patent pending plug management design that controls dNEXT and delivers extended channel performance.

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10GX IDC Design Cancels Out Alien Crosstalk

Traditional Technology



The IDC is one of the most sensitive areas for alien crosstalk management. In traditional designs, all of the IDC contacts are aligned so they become perfect antennas, allowing adjacent pairs to both emit and receive noise.



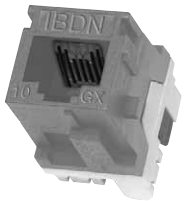
Belden's patent-pending design, called MatriX IDC technology, positions each IDC at 90 degrees to its neighbor – effectively canceling out ANEXT by 15 dB as compared with traditional technology!

MatriX IDC technology

10GX Module Eliminates Signal Degradation

Traditional jack designs are performance handicapped at high frequencies because of an inherent crosstalk in the plug that cannot be fully compensated for by the jack. This crosstalk occurs because the compensation circuitry is located at some physical distance from the source of the noise, which is at the plug interface. Even a very small physical distance can have a major impact at high frequencies.

The 10GX modules feature FleXPoint PCB technology. This technology incorporates the use of a flexible PCB that allows the compensation circuitry to be located directly at the point of the plug contact. This reduces the delay between the source of the crosstalk in the plug and the crosstalk cancellation circuitry on the PCB. As a result the crosstalk noise at high frequencies is dramatically reduced for outstanding channel performance to 625 MHz!



FleXPoint PCB Technology

Error-Free Termination Practices – Installable Performance®

Since structured cabling systems for Category 6 and beyond are extremely sensitive to installation practices, the 10GX system mitigates and simplifies installation issues to ensure overall 10G system performance. To ensure optimum termination of the cable to the module, a new patent-pending technology called the X-Bar was developed. The X-Bar is a plastic device that affixes to the module to ensure that each UTP pair is consistently positioned for termination on the 10GX module's IDC pins. The X-Bar also controls the amount of unjacketed cable, plus it maintains the conductor twist lays during installation to prevent untwisting. With this consistent termination feature, the superior NEXT and ANEXT performance achieved through use of the system's innovative component designs will be maintained and remain stable throughout the installation process. We call this after-installation assurance installable performance.



FleXPoint PCB Technology

The 10GX Patch Panel with 10GX Modules

Alien crosstalk control within a patch panel is critical to the success of the system. The high density environment of a patch panel can be subjected to crippling amounts of alien crosstalk. The unique design of the 10GX module's IDC, and its ability to cancel the "antenna" effect between modules eliminates the Alien crosstalk issue. Because superior ANEXT performance is assured by the module-related technologies, this allows the patch panel ports to be in line. There is no need to compromise on density, and labeling and cable management features are greatly improved. In fact, the module technology is so powerful, Belden is the only manufacturer to be able to offer an ultra high-density solution with 48 ports in a 1U space!

Belden IBDN Category 5e/Enhanced Category 6 Components and Systems

Belden IBDN Cat. 5e, Cat. 6 and beyond Cat. 6 systems can be designed and installed using either Bonded-Pair UTP cables or non-bonded-pair UTP cables. Both types of cable offer performance well beyond the standards. Bonded-Pair UTP cables – DataTwist® 350, MediaTwist® and DataTwist® 600e – feature a patented design that bonds the individual insulated conductors of each pair along the full length of the cable. This bonded construction delivers installable performance. That is, bonded-pair cables are consistent in the distance between the conductors and in the amount of twist, throughout the installation process, so they deliver the same, superior electrical performance both before and after the cable's installation.

Our non-bonded-pair family of cables include GigaFlex® 1200, 2400 and 4800LX cables. These cables incorporate a patented design which provides complete quality control during the manufacturing process. This allows us to provide high quality cables that consistently offer improved channel performance and large margins over the standards. These cables will provide the capacity and performance to maximize your overall network performance.

Belden IBDN punch-down GigaFlex modules are based on a patented encapsulated lead frame technology that ensures long-term reliability, as well as extremely stable transmission performance. Lead frame technology is inherently more reliable than traditional connector technologies as it uses a single, uninterrupted copper contact path through the connector. The design of the GigaFlex module allows signals to pass virtually unchanged through the connector, providing greater system performance.

GigaBIX® distribution connectors, featuring Belden's BIX technology, are a uniquely designed solution centered around an extremely compact connector equipped with double-sided Insulation displacement connection (IDC) clips. The benefit of this unique design is a considerable reduction in the space that would be required by conventional connecting systems of the same pair count. The density of BIX technology is second to none, allowing up to three hundred pairs to be terminated in a very small area – a real space saver, especially in today's office environment where real estate is at a premium.

Belden IBDN System 1200 (Cat. 5e | 1.2 Gb/s | 160 MHz)

If your business is riding the current wave of growth and expansion, you may be considering new ways of doing business and a new or upgraded IT system to support these new strategies. This is the ideal time to plan and implement a new cabling system or to upgrade your existing infrastructure.

This Category 5e system was developed to support high-speed network applications such as Gigabit ethernet and provides clear bandwidth up to 160 MHz; an increase of 60% over the Category 5e standard of 100 MHz. Standards organizations such as TIA/EIA and IEEE now recommend Category 5e cabling systems for all new cabling installations.

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(continued)

Belden IBDN System 2400 (Cat. 6 | 2.4 Gb/s | 250 MHz)

If leading-edge communication systems are an element of your competitive strategy and if you consider information technology as one of the drivers of your bottom line, you should consider the speed, reliability and performance advantages of this system.

This Category 6 system meets or exceeds all requirements of the TIA/EIA Category 6 standard specifications and delivers 250 MHz bandwidth, a 25% increase over the 200 MHz bandwidth of typical Category 6 compliant channels. The Belden IBDN system 2400 provides the performance, throughput and reliability necessary to keep your critical applications operating at peak performance.

Belden IBDN System 4800LX (Beyond Cat. 6 | 4.8 Gb/s | 300 MHz)

If every bit of information that your company processes is mission critical, you need the performance and reliability that is built into the Belden IBDN system 4800LX.

This enhanced Category 6 system was conceived to support the most demanding, ultra-high speed and multi-Gigabit protocols, providing blistering performance.

The Belden IBDN system 4800LX is the industry's first 300 MHz system, far exceeding all TIA/EIA Category 6 specifications.

Solutions			Backbone Cable†		Telecom Room
Available Channel Bandwidth	Guaranteed Data Rate	UTP Channel STD Compliance	4-Pair Cables	Page	Cross-Connect Hardware
Belden IBDN System 1200					
160 MHz PowerSum	1.2 Gb/s	Cat. 5e* TIA/EIA ISO/IEC IEEE Gigabit	DataTwist® 350 1700R (CMR) DataTwist® 350 1700E (PVC) DataTwist® 350 1700ENH (LSNH) see Plenum: 1701A and 1701LC GigaFlex 1212 (CMR) GigaFlex 1213 (CMP) GigaFlex 1224 (LSOH)	15.49 15.49 15.49 15.50 15.50 15.50	GigaBIX® Cross-Connect System PS5E BIX Patch Panel PS5E HD-BIX Patch Panel PS5E HD-110 Patch Panel Flex Patch Panel/EZ-MDVO PS5E Module Flex Patch Panel/GigaFlex PS5E Module 110 Cross-Connect System
Belden IBDN System 2400					
250 MHz PowerSum	2.4 Gb/s	Cat. 6** TIA/EIA ISO/IEC IEEE Gigabit	7812E (PVC) 7812ENH (LSNH) GigaFlex 2412 (CMR) GigaFlex 2413 (CMP) GigaFlex 2424 (LSOH)	15.46 15.46 15.47 15.47 15.47	GigaBIX Cross-Connect System GigaFlex PS6+ Patch Panel Flex Patch Panel/GigaFlex PS6+ Module
Belden IBDN System 4800LX					
300 MHz PowerSum	4.8 Gb/s	Beyond Cat6®** TIA/EIA ISO/IEC IEEE Gigabit	DataTwist® 600e 7851A (CMR) DataTwist® 600e 7852A (CMP) DataTwist® 600e 7851NH (LSNH) GigaFlex 4812LX (CMR) GigaFlex 4813LX (CMP) GigaFlex 4824LX (LSOH)	15.44 15.44 15.44 15.45 15.45 15.45	GigaBIX Cross-Connect System GigaFlex PS6+ Patch Panel Flex Patch Panel/GigaFlex PS6+ Module
Belden IBDN System 10GX					
625 MHz	10 Gb/s	Beyond 10G Proposed TIA ISO/IEC IEEE 10 Gigabit	10GX 10GX12 (CMR, Non-bonded-Pair) 10GX 10GX13 (CMP, Non-bonded-Pair) 10GX 10GX24 (LSZH, Non-bonded-Pair) 10GX 10GX16 (LC, Non-bonded-Pair) 10GX 10GX32 (CMR, Bonded-Pair) 10GX 10GX44 (LSZH, Bonded-Pair) 10GX 10GX66 (LC, Bonded-Pair)	15.8 15.8 15.8 15.8 15.8 15.8 15.8	10GX Ultra High-Density Patch Panel (1U, 48 ports) 10GX Patch Panel Flex Patch Panel/10GX Module

* ANSI/TIA/EIA-568-B.1, ISO/IEC 11801 2nd Edition and IEEE 802.3ab. • ** ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd Edition and IEEE 802.3ab.
† Backbone can be configured with Belden IBDN Fiber*Express* Optical Fiber Cable.
Installable Performance guarantees are available on Bonded-Pair cables. Since the insulated conductors of the pairs are bonded along their longitudinal axes, Bonded-Pair cables remain intact during the installation process, so there is no separation of pair conductors and no degradation of the cables' electrical characteristics.

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Introduction
(continued)

Quality Installation and Service

Belden IBDN systems are designed, installed and field-tested by full trained and certified system contractors and integrators to further assure superior systems performance. They are also backed by a strict system certification and warranty program.

System Certification and Warranty Program

The Belden IBDN certification program is a rigorous process that ensures that your Belden IBDN 'certified' system is composed of Belden IBDN components, and that it has been designed and installed by a factory-trained certified system vendor. Belden IBDN 'certified' systems are supported by a series of warranties that surpass conventional product warranties.

Certification adds important end-to-end system performance guarantees and ensures full compliance with cabling industry standard specifications – even after system installation (installable performance). A 25-year product warranty and a lifetime application assurance program accompany each Belden IBDN 'certified' system installation. These warranty programs include coverage for both parts and labor.

	Horizontal Cable			Work Area	
Cross-Connect Patch System	4-Pair Cables	Page	Installable Performance®††	Outlets — Connectors, Faceplates & Adapters	Modular Cords
GigaBIX Cross-Connect Wire GigaBIX Patch Cords GigaFlex PS5E Modular Cords PS5E 110 Patch Cords	DataTwist® 350 1700R (CMR) DataTwist® 350 1700E (PVC) DataTwist® 350 1700ENH (LSNH) see Plenum: 1701A and 1701LC GigaFlex 1212 (CMR) GigaFlex 1213 (CMP) GigaFlex 1224 (LSOH)	15.49 15.49 15.49 15.50 15.50 15.50	●	PS5E BIX DVO Outlet PS5E Modular EZ-MDVO PS5E Module GigaFlex PS5E Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters European-style Faceplates French-style Faceplates	GigaFlex Cords
GigaBIX Cross-Connect Wire GigaBIX PS6+ Patch Cords GigaFlex PS6+ Modular Cords	7812E (PVC) 7812ENH (LSNH) GigaFlex 2412 (CMR) GigaFlex 2413 (CMP) GigaFlex 2424 (LSOH)	15.46 15.46 15.47 15.47 15.47	● ●	GigaFlex PS6+ Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters European-style Faceplates French-style Faceplates	GigaFlex PS6+ Modular Cords
GigaBIX Cross-Connect Wire GigaBIX PS6+ Patch Cords GigaFlex PS6+ Modular Cords	DataTwist® 600e 7851A (CMR) DataTwist® 600e 7852A (CMP) DataTwist® 600e 7851NH (LSNH) GigaFlex 4812LX (CMR) GigaFlex 4813LX (CMP) GigaFlex 4824LX (LSOH)	15.44 15.44 15.44 15.45 15.45 15.45	● ●	GigaFlex PS6+ Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters European-style Faceplates French-style Faceplates	GigaFlex PS6+ Modular Cords
10GX Modular Cords	10GX 10GX12 (CMR, Non-bonded-Pair) 10GX 10GX13 (CMP, Non-bonded-Pair) 10GX 10GX24 (LSZH, Non-bonded-Pair) 10GX 10GX16 (LC, Non-bonded-Pair) 10GX 10GX32 (CMR, Bonded-Pair) 10GX 10GX33 (CMP, Bonded-Pair) 10GX 10GX44 (LSZH, Bonded-Pair) 10GX 10GX66 (LC, Bonded-Pair)	15.8 15.8 15.8 15.8 15.8 15.8 15.8 15.8	 ● ● ● ●	10GX Module MediaFlex Outlets Interface Plates MDVO Faceplates MDVO Adapters	10GX Modular Cords

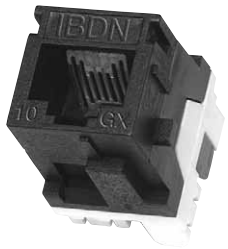
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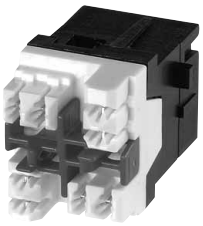
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Belden IBDN System 10GX

10GX Modules and 10GX Patch Panels

AX102272 10GX Module, Black





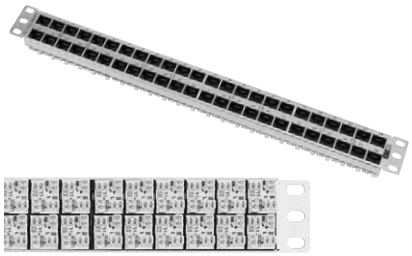
10GX Module

The 10GX module is a revolutionary punch down UTP connector designed to be used within the new Belden IBDN system 10GX. In order to achieve true 10G performance, Belden has designed the 10GX module based on three revolutionary module technologies making the 10GX module the most advanced 10G module available. It is designed to work in existing hardware including the Flex modular patch panel and MediaFlex outlet series. It can also be mixed and matched with a wide variety of adapters and boxes to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications closet applications. The unmatched Beyond 10G™ performance exceeds all parameters specified in the proposed augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, insertion loss and return loss have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Belden IBDN System 10GX		
10GX Module, Augmented Category 6		
MDVO-Style, T568A/B, Grey	**AX102269**	**AX102280**
MDVO-Style, T568A/B, White	**AX102271**	**AX102282**
MDVO-Style, T568A/B, Black	**AX102272**	**AX102283**
MDVO-Style, T568A/B, Red	**AX102274**	**AX102285**
MDVO-Style, T568A/B, Yellow	**AX102275**	**AX102286**
MDVO-Style, T568A/B, Green	**AX102276**	**AX102287**
MDVO-Style, T568A/B, Blue	**AX102277**	**AX102288**
MDVO-Style, T568A/B, Ivory	**AX102562**	**AX102281**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

AX102488 10GX Ultra High-Density Patch Panel 1U, 48-port, Titanium



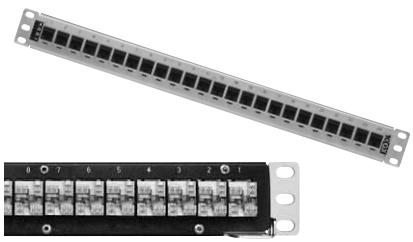
10GX Patch Panel

The 10GX patch panel is a fully loaded patch panel designed to be used within the Belden IBDN system 10GX. The 10GX patch panel features the revolutionary 10GX module, specifically designed to meet the difficult challenges of 10 Gb/s transmission. 10GX patch panels are available in high-density options such as 24 ports in 1U or 48 ports in 2U, but the phenomenal ANEXT performance of the 10GX module has allowed Belden to also support an ultra high-density option offering the 10GX ultra high-density patch panel supporting 48 ports in 1U. The unmatched beyond 10G™ performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, insertion loss and return loss have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number
Belden IBDN System 10GX	
10GX Ultra High-Density Patch Panel, Augmented Category 6	
1U, 48-port, Titanium	**AX102488**
10GX Patch Panel, Augmented Category 6	
1U, 24-port, Titanium	**AX102293**
2U, 48-port, Titanium	**AX102296**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

AX102293 10GX Patch Panel 1U, 24-port, Titanium



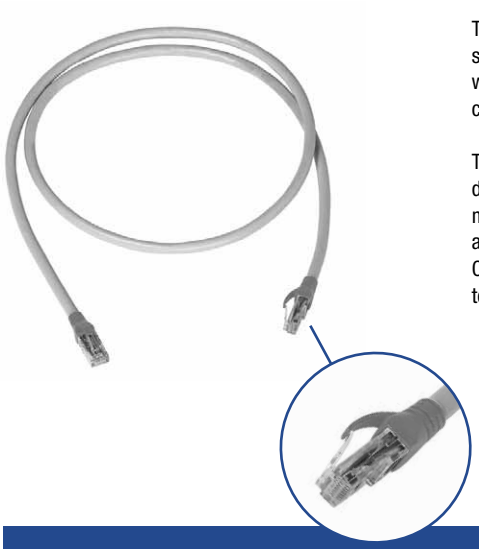
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Belden IBDN System 10GX

10GX Modular Cords

AX360015 10GX Modular Cord, Blue



10GX Modular Cords

The 10GX modular cords are 4-pair 23 AWG UTP modular cords designed to be used within the Belden IBDN system 10GX. Belden has designed the 10GX modular cord based on a patent pending management bar design which allows for very good control of the internal plug NEXT. The patch cable design offers very good Alien crosstalk performance, while maintaining the important mechanical characteristics such as flexibility.

The 10GX modular cords' design, with a very small footprint, makes them fully compatible with the highest density hubs that utilize RJ45 jack connections. The 10GX modular cords are available in pantone colors that match the colors per the TIA/EIA-606 standard and the product line encompasses CMR modular cords, as well as open-ended cords. The unmatched performance exceeds all parameters specified in the proposed Augmented Category 6 standard. All performance characteristics have been set to guarantee transmission performance up to 625 MHz.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Belden IBDN System 10GX						
10GX Modular Cord, 4-Pair, 23 AWG Solid, T568A/B - T568A/B, CMR						
2.1 m (7 ft.)	AX360015	AX360051	AX360027	AX360021	AX360045	AX360057
3.0 m (10 ft.)	AX360016	AX360052	AX360028	AX360022	AX360046	AX360058
4.6 m (15 ft.)	AX360017	AX360053	AX360029	AX360023	AX360047	AX360059
7.6 m (25 ft.)	AX360018	AX360054	AX360030	AX360024	AX360048	AX360060
10GX Pigtail, 4-Pair, 23 AWG Solid, T568A - Open, CMR						
4.6 m (15 ft.)	–	–	AX360265	–	–	–
7.6 m (25 ft.)	–	–	AX360266	–	–	–
10.6 m (35 ft.)	–	–	AX360267	–	–	–
15.0 m (50 ft.)	–	–	AX360268	–	–	–
10GX Pigtail, 4-Pair, 23 AWG Solid, T568B - Open, CMR						
4.6 m (15 ft.)	–	–	AX360269	–	–	–
7.6 m (25 ft.)	–	–	AX360270	–	–	–
10.6 m (35 ft.)	–	–	AX360271	–	–	–
15.0 m (50 ft.)	–	–	AX360272	–	–	–

These products are in the process of being assessed for Gb/s compliance. Please check our website for the most current RoHS status.

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Belden IBDN System 10GX

10GX Cables

24826395 10GX Cable Series, White



10GX Cable

The 10GX cables are 4-pair 23 AWG UTP cables designed to be used within the Belden IBDN system 10GX. The GX cable incorporates the use of patent pending SpiralFleX™ technology, which improves the ANEXT coupling by increasing and randomizing the distance between a cable and the neighboring cables surrounding it. The unmatched beyond 10G™ performance exceeds all parameters specified in the proposed augmented Category 6 standard. All performance characteristics including ANEXT, NEXT, FEXT, Insertion Loss and Return Loss have been set to guarantee channel transmission performance up to 625 MHz. The 10GX cable series is very complete with cable available with bonded-pairs and non-bonded-pairs, and is available in plenum, non-plenum, and limited combustible versions.

Description	Belden Part Number
10GX Cable, Bonded-Pairs	
10GX Cable, CMR	
10GX32 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White	**24826395**
10GX32 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Blue	**24826995**
10GX Cable, CMP	
10GX33 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White	**24827395**
10GX33 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Blue	**24827995**
10GX Cable, LSZH	
10GX44 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Purple	**24828095**
10GX Cable, Limited Combustible	
10GX66 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White*	**24822395**
10GX Cable, Non-Bonded-Pairs	
10GX Cable, CMR	
10GX12 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White	**24816395**
10GX12 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Blue	**24816995**
10GX Cable, CMP	
10GX13 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White	**24817395**
10GX13 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Blue	**24817995**
10GX Cable, LSZH	
10GX24 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, Purple	**24818095**
10GX Cable, Limited Combustible	
10GX16 Cable, 4-Pair, 23 AWG UTP, 305 m (1000 ft.), Spool, White*	**24812395**

* DuPont™ certified limited combustible cable

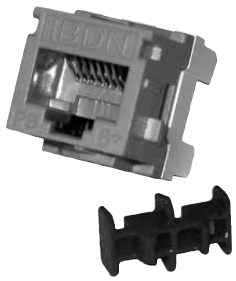
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Belden IBDN System 4800LX

Beyond Category 6, 4.8 Gb/s – 300 MHz

AX101067 GigaFlex PS6+ Module



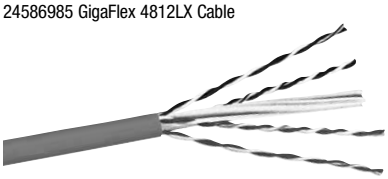
AX101613 GigaFlex PS6+ Patch Panel



AX350061 GigaFlex PS6+ Modular Cord



24586985 GigaFlex 4812LX Cable



This systems overview page is intended to give you a basic list of the main components used in the system. For a more complete listing of product options and for more detailed product information, see the individual catalog pages listed in this section.

These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

System 4800LX

The Belden IBDN system 4800LX combines the power and performance of our PS6 connectivity products with our break-through series 4800LX UTP cables to provide industry's first true end-to-end 300 MHz cabling system.

Systems components include: GigaFlex 4800LX unbonded-pair UTP Cables, DataTwist® 600e bonded-pair UTP cables, GigaBIX cross-connect systems, PS6+ patch panels (including fully loaded and modular versions) and related patch cords, outlets, modules, faceplates and adapters.

Belden IBDN System 4800LX, Modules*

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
GigaFlex PS6+ Module		
T568A/B, White	**AX101065**	**AX101320**
T568A/B, Black	**AX101066**	**AX101321**

* See page 15.27 for a more complete listing of products and for more detailed product information.

Belden IBDN System 4800LX, Patch Panels*

Description	Belden Part Number
GigaFlex PS6+ Patch Panel	
GigaFlex PS6+ Patch Panel, 1U, 24-port, Black, loaded	**AX101611**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Black, loaded	**AX101613**
Flex Patch Panel, 1U, 24-port, Black, unloaded	**AX101571**
Flex Patch Panel, 2U, 48-port, Black, unloaded	**AX101458**

* See page 15.25 for a more complete listing of products and for more detailed product information.

Belden IBDN System 4800LX, Modular Cords*

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
GigaFlex PS6+ Modular Cord, LSZH 4-pair, 23 AWG solid, T568B - T568B						
0.5 m (1.6 ft.)	**AX102356**	**AX102350**	**AX102392**	**AX102544**	**AX102550**	**AX102556**
1.0 m (3.3 ft.)	**AX102357**	**AX102351**	**AX102393**	**AX102545**	**AX102551**	**AX102557**
2.0 m (6.5 ft.)	**AX102358**	**AX102352**	**AX102394**	**AX102546**	**AX102552**	**AX102558**
3.0 m (10 ft.)	**AX102359**	**AX102353**	**AX102395**	**AX102547**	**AX102553**	**AX102559**
5.0 m (16.4 ft.)	**AX102360**	**AX102354**	**AX102396**	**AX102548**	**AX102554**	**AX102560**
10.0 m (33 ft.)	**AX102361**	**AX102355**	**AX102397**	**AX102549**	**AX102555**	**AX102561**

* See pages 15.38 – 15.39 for a more complete listing of products and for more detailed product information.

Belden IBDN System 4800LX, Cables*

Description	Belden Part Number		
	Blue	White	Purple
Beyond Category 6			
GigaFlex 4812LX Cable, CMR, 23 AWG, 305 m Spool	**24586985**	**24586385**	**–**
GigaFlex 4813LX Cable, CMP, 23 AWG, 305 m Spool	**24587985**	**24587385**	**–**
GigaFlex 4824LX Cable, LSZH, 23 AWG, 305 m Spool	**–**	**–**	**24588085**
DataTwist 600e, CMR, 23 AWG, 305 m Reel	**7852A 0061000**	**7852A 0091000**	**–**
DataTwist 600e, CMP, 23 AWG, 305 m Reel	**7852A D151000**	**7852A 0091000**	**–**

* See pages 15.44 – 15.45 for a more complete listing of products and for more detailed product information.

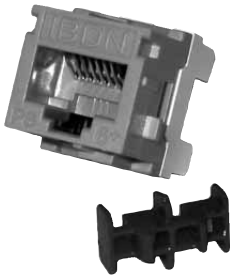
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Belden IBDN System 2400

Category 6, 2.4 Gb/s – 250 MHz

AX101067 GigaFlex PS6+ Module



AX101613 GigaFlex PS6+ Patch Panel



AX350061 GigaFlex PS6+ Modular Cord



24568015 GigaFlex 2424 Cable



This systems overview page is intended to give you a basic list of the main components used in the system. For a more complete listing of product options and for more detailed product information, see the individual catalog pages listed in this section.

These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

System 2400

The Belden IBDN system 2400 installations provide the additional throughput and enhanced error-free performance needed to support high-traffic and high-bit-rate applications. It delivers 250 MHz of user bandwidth as well as support for data rates up to 2.4 gigabits per second.
Systems components include: GigaFlex 2400 unbonded-pair UTP cables, MediaTwist® bonded-pair UTP cables, GigaBIX cross-connect systems, PS6+ patch panels (including fully loaded and modular versions) and related patch cords, outlets, modules, faceplates and adapters.

Belden IBDN System 2400, Modules*

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
GigaFlex PS6+ Module		
T568A/B, White	**AX101065**	**AX101320**
T568A/B, Black	**AX101066**	**AX101321**

* See page 15.27 for a more complete listing of products and for more detailed product information.

Belden IBDN System 2400, Patch Panels*

Description	Belden Part Number
GigaFlex PS6+ Patch Panel	
GigaFlex PS6+ Patch Panel, 1U, 24-port, Black, loaded	**AX101611**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Black, loaded	**AX101613**
Flex Patch Panel, 1U, 24-port, Black, unloaded	**AX101571**
Flex Patch Panel, 2U, 48-port, Black, unloaded	**AX101458**

* See page 15.25 for a more complete listing of products and for more detailed product information.

Belden IBDN System 2400, Modular Cords*

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
GigaFlex PS6+ Modular Cord, LSZH 4-pair, 23 AWG solid, T568B - T568B						
0.5 m (1.6 ft.)	**AX102356**	**AX102350**	**AX102392**	**AX102544**	**AX102550**	**AX102556**
1.0 m (3.3 ft.)	**AX102357**	**AX102351**	**AX102393**	**AX102545**	**AX102551**	**AX102557**
2.0 m (6.5 ft.)	**AX102358**	**AX102352**	**AX102394**	**AX102546**	**AX102552**	**AX102558**
3.0 m (10 ft.)	**AX102359**	**AX102353**	**AX102395**	**AX102547**	**AX102553**	**AX102559**
5.0 m (16.4 ft.)	**AX102360**	**AX102354**	**AX102396**	**AX102548**	**AX102554**	**AX102560**
10.0 m (33 ft.)	**AX102361**	**AX102355**	**AX102397**	**AX102549**	**AX102555**	**AX102561**

* See pages 15.38 – 15.39 for a more complete listing of products and for more detailed product information.

Belden IBDN System 2400, Cables*

Description	Belden Part Number		
	Blue	White	Purple
Category 6			
GigaFlex 2412LX Cable, CMR, 24 AWG, 305 m box	**24566915**	**24566315**	–
GigaFlex 2413LX Cable, CMP, 24 AWG, 305 m box	**24567915**	**24567315**	–
GigaFlex 2424LX Cable, LSZH, 24 AWG, 305 m box	–	–	**24568015**
GigaFlex 2424LX Cable, LSZH, 24 AWG, 305 m reel	–	**24568315**	–
GigaFlex 2424LX Cable, LSZH, 24 AWG, 500 m reel	–	**24568331**	–
CMR, UTP Bonded-Pair, 23 AWG, 305 m box	**7812E.01U305**	–	–
LSNH, UTP Bonded-Pair, 23 AWG, 305 m box	**7812ENH.01U305**	–	–

* See pages 15.46 – 15.47 for a more complete listing of products and for more detailed product information.

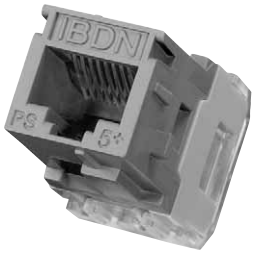
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Belden IBDN System 1200

Category 5e, 1.2 Gb/s – 160 MHz

AX101046 GigaFlex PS5E Module



AX101571 Flex Patch Panel, Black



AX102344 GigaFlex PS5E Modular Cord



24570157 GigaFlex 1224 Cable



This systems overview page is intended to give you a basic list of the main components used in the system. For a more complete listing of product options and for more detailed product information, see the individual catalog pages listed in this section.

These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

System 1200

The Belden IBDN system 1200 installations provide the additional throughput and enhanced error-free performance needed to support high-traffic and high-bit-rate applications. It delivers 160 MHz of user bandwidth as well as support for data rates up to 1.2 gigabits per second.
Systems components include: GigaFlex 1200 unbonded-pair UTP cables, DataTwist® 350 bonded-pair UTP cables, GigaBIX and 110 cross-connect systems, PS5E patch panels (including high density and modular versions) and related patch cords, outlets, modules, faceplates and adapters.

Belden IBDN System 1200, Modules*

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
GigaFlex PS5e Module		
T568A/B, White	**AX101046**	**AX101309**
T568A/B, Black	**AX101047**	**AX101310**

* See pages 15.28 – 15.29 for a more complete listing of products and for more detailed product information.

Belden IBDN System 1200, Patch Panels*

Description	Belden Part Number
GigaFlex PS5e Patch Panel	
GigaFlex PS5e HD-110 Patch Panel, 1U, 24-port, Black, T568B, loaded	**AX100452**
GigaFlex PS5e HD-110 Patch Panel, 2U, 48-port, Black, T568B, loaded	**AX100454**
Flex Patch Panel, 1U, 24-port, Black, unloaded	**AX101571**
Flex Patch Panel, 2U, 48-port, Black, unloaded	**AX101458**

* See page 15.26 for a more complete listing of products and for more detailed product information.

Belden IBDN System 1200, Modular Cords*

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
GigaFlex PS5e Modular Cord, LSZH 4-pair, 24 AWG stranded, T568B - T568B						
0.5 m (1.6 ft.)	**AX102344**	**AX102338**	**AX102386**	**AX102526**	**AX102532**	**AX102538**
1.0 m (3.3 ft.)	**AX102345**	**AX102339**	**AX102387**	**AX102527**	**AX102533**	**AX102539**
2.0 m (6.5 ft.)	**AX102346**	**AX102340**	**AX102388**	**AX102528**	**AX102534**	**AX102540**
3.0 m (10 ft.)	**AX102347**	**AX102341**	**AX102389**	**AX102529**	**AX102535**	**AX102541**
5.0 m (16.4 ft.)	**AX102348**	**AX102342**	**AX102390**	**AX102530**	**AX102536**	**AX102542**
10.0 m (33 ft.)	**AX102349**	**AX102343**	**AX102391**	**AX102531**	**AX102537**	**AX102543**

* See page 15.40 for a more complete listing of products and for more detailed product information.

Belden IBDN System 1200, Cables*

Description	Belden Part Number			
	Blue	White	Purple	Grey
Category 5e • 24 AWG • UTP, 4-pair				
GigaFlex 1212, CMR, 305 m Box	**24570161**	**24570166**	–	–
GigaFlex 1213, CMP, 305 m Box	**24570800**	**24570810**	–	–
GigaFlex 1224, LSZH, 305 m Box	–	–	**24570157**	–
GigaFlex 1224, LSZH, 305 m Reel	–	**24598301**	–	–
GigaFlex 1224, LSZH, 500 m Reel	–	**24598331**	–	–
DataTwist® 350, LSZH, 305 m Box	–	–	–	**1700ENH.004305**

* See pages 15.49 – 15.50 for a more complete listing of products and for more detailed product information.

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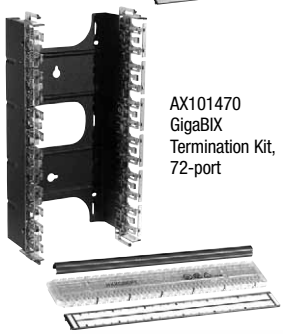
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GigaBIX Multi System

Termination Kits and Basic Components

AX101985 GigaBIX Rack Mount Termination Kit, 48-port



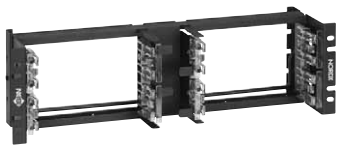


AX101470
GigaBIX
Termination Kit,
72-port

AX101447 GigaBIX Connector,
6-port



AX101986 GigaBIX Rack Mount Panel



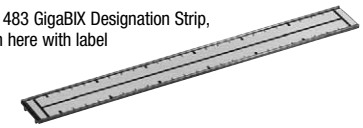
AX101472
GigaBIX Mount



AX101486 GigaBIX Wire Guard



AX101483 GigaBIX Designation Strip,
shown here with label



AX101987 GigaBIX/MediaFlex Adapter



GigaBIX Termination Kits

The GigaBIX termination kits contains all components required to terminate cables in a GigaBIX cross-connect or interconnect system. The termination kits allow for the most cost-effective Category 6 cross-connect or interconnect installations using GigaBIX cross-connect wire or GigaBIX PS6+ patch cords. The GigaBIX mount is designed to accommodate high-performance cables. The GigaBIX connectors have color-coded edges, separation marks and a keying feature that prevents connector insertion in the wrong orientation. Each kit also contains wire guards, designation strips, designation labels, velcro ties and a detailed installation guide.

GigaBIX Connector

The GigaBIX connector is the core component of the GigaBIX multi system. Its symmetrical construction allows termination of high-performance cables on one side and GigaBIX cross-connect wires or GigaBIX patch cords on the other. Each GigaBIX connector is equipped with 50 double-ended Insulation Displacement Connection (IDC) clips for terminating plastic insulated solid copper conductors without stripping. The connector is built with two staggered rows of IDC clips enclosed in a three-layer construction of fire-retardant plastic wafers. The GigaBIX connectors have color-coded edges, separation marks and a keying feature that prevents connector insertion in the wrong orientation. The GigaBIX connector offers exceptional performance that goes beyond Category 6 which makes it the ideal choice for gigabit cabling networks.

GigaBIX Mount

The GigaBIX mount for wall installations holds 12 GigaBIX connectors and is designed to accommodate up to 144 high-performance cables when used in a top-to-bottom cross-connect layout.
The GigaBIX rack mount panel allows for customizing rack mount installations for data, voice or multimedia installations. This panel can accommodate up to 8 GigaBIX connectors, for a total of 48 terminations of 4-pair UTP cables, or up to 4 GigaBIX/MediaFlex adapters for a total of 48 multimedia ports.

GigaBIX Wire Guard

The GigaBIX wire guards are plastic strips that snap behind the GigaBIX connectors after termination to provide strain relief to the twisted pairs. They come as part of the GigaBIX termination kits and can also be ordered separately as replacement components.

GigaBIX Designation Strip

The GigaBIX designation strips are plastic strips that snap between the GigaBIX connectors to apply the designation labels. They come as part of the GigaBIX termination kits and can also be ordered separately as replacement components. (See the LabelFlex section for designation labels.)

GigaBIX/MediaFlex Adapter

The GigaBIX/MediaFlex adapter allows for mixed media installation within the expanded GigaBIX multi-family of connectivity. The GigaBIX/MediaFlex adapter can accommodate a variety of MediaFlex inserts including UTP and multimedia inserts to customize multimedia installation in telecommunications rooms, equipment rooms, or consolidation points (see page 15.30 for the accessories).

Description	Belden Part Number
GigaBIX Multi System	
Termination Kits	
GigaBIX Termination Kit, 72-port	**AX101470**
GigaBIX Termination Kit, 300-pair	**AX101471**
GigaBIX Rack Mount Termination Kit, 48-port	**AX101985**
Basic Components	
GigaBIX Connector, 6-port	**AX101447**
GigaBIX Connector, 25-pair	**AX101448**
GigaBIX Mount, 12-connector	**AX101472**
GigaBIX Rack Mount Panel, 48-port	**AX101986**
GigaBIX Wire Guard	**AX101486**
GigaBIX Designation Strip	**AX101483**
GigaBIX/MediaFlex Adapter	**AX101987**

These products are in the process of being assessed for RoHS compliance.
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GigaBIX Multi System

Patch Cords and Cross-Connect Wire

AX101945 GigaBIX PS6+ Patch Cord, BIX-BIX, 1.2 m (4 ft.)



AX101951 GigaBIX PS6+ Patch Cord, BIX-8MOD, 1.2 m (4 ft.)



GigaBIX Patch Cords

GigaBIX patch cords allow for high-density connections, coupled with flexibility for cost-effective installation and administration. Plug-and-go installation and rearrangement of patch cords do not require any special tools or training. GigaBIX patch cords are available in two different configurations: BIX-BIX patch cord configurations for easy cross-connection between equipment and distribution fields, and BIX-8MOD patch cord configurations to easily interconnect equipment utilizing 8-position modular jacks directly into GigaBIX connectors in the distribution field.

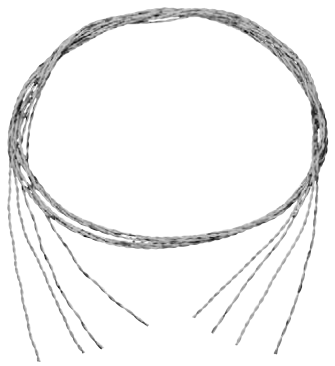
The GigaBIX PS6+ patch cords are 4-pair 23 AWG UTP cords. They are used in GigaBIX multi system as part of a Belden IBDN system 2400 and system 4800LX, providing a channel bandwidth of 250 MHz and 300 MHz respectively.

The GigaBIX PS5E patch cords are used in the GigaBIX multi system as part of a Belden IBDN system 1200, providing outstanding channel bandwidth of 160 MHz.

Description	Belden Part Number		
	BIX-BIX	BIX-8MOD T568A-ISDN	BIX-8MOD T568B-ALT
GigaBIX Multi System			
PS6+ Patch Cords			
1.2 m (4 ft.)	**AX101945**	**AX101951**	**AX101957**
1.8 m (6 ft.)	**AX101946**	**AX101952**	**AX101958**
2.4 m (8 ft.)	**AX101947**	**AX101953**	**AX101959**
3.0 m (10 ft.)	**AX101948**	**AX101954**	**AX101960**
4.6 m (15 ft.)	**AX101949**	**AX101955**	**AX101961**
7.6 m (25 ft.)	**AX101950**	**AX101956**	**AX101962**
PS5E Patch Cords			
1.2 m (4 ft.)	**AX101963**	**AX101969**	**AX101975**
1.8 m (6 ft.)	**AX101964**	**AX101970**	**AX101976**
2.4 m (8 ft.)	**AX101965**	**AX101971**	**AX101977**
3.0 m (10 ft.)	**AX101966**	**AX101972**	**AX101978**
4.6 m (15 ft.)	**AX101967**	**AX101973**	**AX101979**
7.6 m (25 ft.)	**AX101968**	**AX101974**	**AX101980**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

24570521 GigaBIX Cross-connect Wire, 4-pair



GigaBIX Cross-Connect Wire

GigaBIX cross-connect wire is intended for use between GigaBIX cross-connect fields in a telecommunications room or in a main cross-connect frame. Using GigaBIX cross-connect wire allows for very flexible and cost-effective installations. The cut-to-length jumper eliminates need for slack management and guarantees permanent installation aesthetics. The GigaBIX cross-connect wire offers transmission performance that goes beyond Category 6 providing additional margin to support Gigabit applications.

Color Code: White/Blue, White/Orange, White/Green, White/Brown

Description	Belden Part Number
GigaBIX Multi System	
Cross-Connect Wire	
4-pair, 305 m (1000 ft.), Spool	**24570521**
4-pair, 305 m (1000 ft.), Spool-in-Box	**24577B15**

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GigaBIX Multi System

Cable Management Accessories

AX102154 GigaBIX Color-Coded Clip





AX101469 GigaBIX
Cable Management Module

AX101468 GigaBIX Patch Cord Organizer
and AX101521 GigaBIX Patch Cord Organizer Cover







AX101520 GigaBIX
Horizontal Channel Plate



AX101478 GigaBIX
Management Ring

GigaBIX Colored Service Clips

The GigaBIX colored service clip is a single-pair plastic clip that snaps on the GigaBIX connectors to visually identify various services when using GigaBIX cross-connect wire.

GigaBIX Cable Management Module

The GigaBIX cable management module is designed to be used with a wall mount solution. The accessory allows all terminated cables to be brought from the same side (top or bottom) in a high-density GigaBIX installation (4-mount stack). The modules are stackable side-to-side and top-to-bottom with alignment features to ease installation. The modules can be used horizontally to create a horizontal management channel for more flexibility in a side-to-side patching layout using GigaBIX patch cords.

GigaBIX Patch Cord Organizer

The GigaBIX patch cord organizer is designed to be used with a wall mount solution. The patch cord organizer is a metal trough that interlocks with GigaBIX mounts to create a vertical management channel for GigaBIX patch cords. The patch cord organizer has six (6) openings per side to nicely dress the patch cords while clearing the labeling area on the GigaBIX mount. The organizer can be assembled over cable management modules in large patch cord installations. A patch cord organizer cover can be purchased separately to hide the patch cords and give a very professional and high-tech look to the installation.

GigaBIX Horizontal Channel Plate

GigaBIX horizontal channel plates are metal plates that attach to the patch cord organizers to create a horizontal management channel for GigaBIX patch cords. The plates are used in pairs and are designed to keep patch cords inside the horizontal channel.

GigaBIX Management Ring

The GigaBIX management ring is a plastic ring that interlocks with the GigaBIX mounts to create a high-density wall mount cross-connect system. The rings are assembled in systems when using cross-connect wire and have a capacity of 450 GigaBIX cross-connect wires (1800-pairs total).

Description	Belden Part Number
GigaBIX Multi System	
Cable Management Accessories	
GigaBIX Color-Coded Clip, Grey	**AX102146**
GigaBIX Color-Coded Clip, Almond	**AX102147**
GigaBIX Color-Coded Clip, White	**AX102148**
GigaBIX Color-Coded Clip, Black	**AX102149**
GigaBIX Color-Coded Clip, Orange	**AX102150**
GigaBIX Color-Coded Clip, Red	**AX102151**
GigaBIX Color-Coded Clip, Yellow	**AX102152**
GigaBIX Color-Coded Clip, Green	**AX102153**
GigaBIX Color-Coded Clip, Blue	**AX102154**
GigaBIX Color-Coded Clip, Purple	**AX102155**
GigaBIX Color-Coded Clip, Brown	**AX102156**
GigaBIX Cable Management Module	**AX101469**
GigaBIX Patch Cord Organizer	**AX101468**
GigaBIX Patch Cord Organizer, Cover	**AX101521**
GigaBIX Horizontal Channel Plate	**AX101520**
GigaBIX Management Ring	**AX101478**

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GigaBIX Multi System

Cable Management Accessories

GigaBIX Distribution Frame & Accessories

GigaBIX distribution frames provide a compact mounting unit for large cross-connect installations of data or voice services.

The GigaBIX distribution frame can accommodate up to (16) 12-connector GigaBIX mounts, eight on the equipment side and eight on the distribution side. The GigaBIX distribution frame has a capacity of 1152 ports or 4800 pairs. It is backwards compatible with BIX mounts (QMBIX12E) and can be used to continue a row of BIX distribution frames (QFBIX24E).

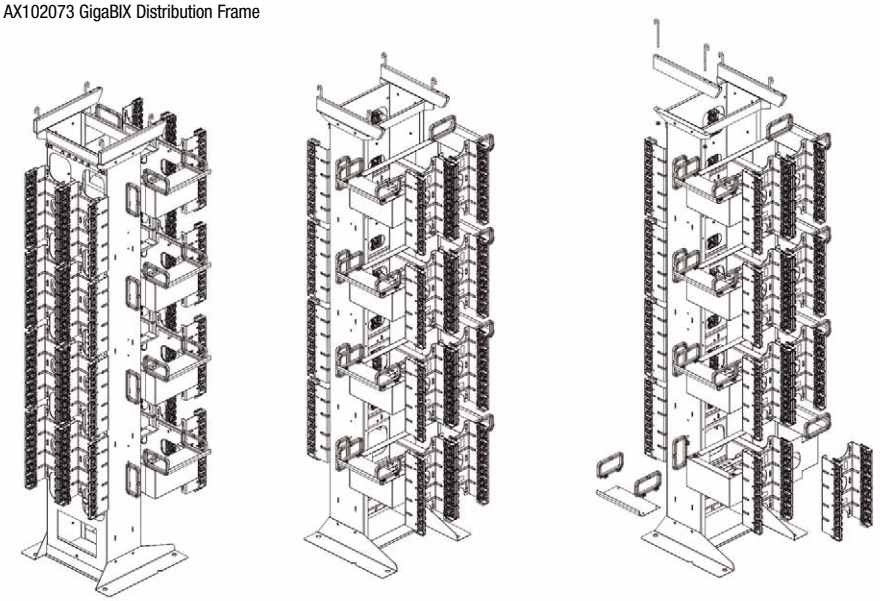
The GigaBIX frame end kit consists of eight (8) cable trays and eight (8) distribution rings plus appropriate mounting hardware. One kit is required to support GigaBIX cross-connect wires on the sides of a single-frame installation or on the end frames of a multi-frame installation.

The GigaBIX overhead kit consists of two (2) metal bars and four (4) “J” bolts plus appropriate mounting hardware to support cable ladder (not included) running over a row of GigaBIX distribution frames.

Description	Belden Part Number
GigaBIX Multi System	
Cable Management Accessories	
Distribution Frame, 1152-ports/4800-pairs	**AX102073**
Frame End Kit	**AX102082**
Frame Overhead Kit	**AX102145**

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AX102073 GigaBIX Distribution Frame



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BIX Cross-Connect System

Distribution Connectors, Multiplying Connectors and Modular Jack Connectors

A0393146 QCBIX1A4 Connector



BIX Distribution Connector

The BIX distribution connector is a 25-pair connector. The connector's symmetrical construction allows termination of cables on one side and cross-connect jumper wires or BIX patch cords on the other. Each BIX connector is equipped with 50 double-ended Insulation Displacement Connection (IDC) clips for terminating plastic insulated solid copper conductors without stripping and pair splitters on each side of the connector facilitate wire insertion.

A0266827 QCBIX5A Multiplying Connector



BIX Multiplying Connector

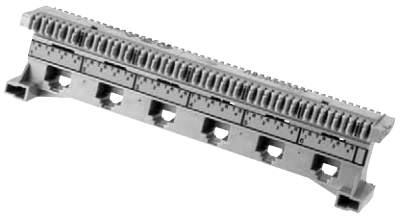
BIX multiplying connectors are used to generate multiple outputs from a single input. Construction of these connectors is identical to that of BIX distribution connectors, except for the IDC clips which are bridged. BIX multiplying connectors are typically used in voice applications.

The QCBIX2A connector is built using 24 sets of bridged clips (2 clips each). It is used to terminate various facilities where multiples of 2 are required.

The QCBIX5A connector is built using 10 sets of bridged clips (5 clips each). It is used for multiple jumper connections to the same equipment.

The QCBIX7A connector is built using 10 sets of bridged clips (four 2-clip and six 7-clip bridged arrangements). It is primarily intended for use with 1A type key telephone systems. Each connector can terminate up to three lines of key equipment providing service to as many as seven key telephone sets per line.

AX100798 BIX Modular Jack Connector



BIX Modular Jack Connector

BIX modular jack connectors provide a fast and flexible method to manage small-to-medium cross-connect installations. These connectors are built with a BIX connector pre-wired to standard modular jacks. They allow front-access termination and patching.

The NXXCBMC6U connector is a 6-port, 8-position modular connector used for data applications. It exceeds all Category 5e channel requirements when used with PS5E modular cords in a Belden IBDN 1200 system.

QCBIX36-type connectors are used mostly for voice applications. The QCBIX36D connector is a 6-port, 8-position modular connector. It is pre-wired to USOC 8-wire wiring scheme specifications. The QCBIX36C connector is an 8-port, 6-position modular connector. It is pre-wired to USOC 6-wire wiring scheme specifications. The QCBIX36B connector is a 12-port, 6-position modular connector. It is pre-wired to USOC 4-wire wiring scheme specifications.

Description	Belden Part Number
BIX Cross-Connect System	
Distribution Connector	
BIX Distribution Connector, 5-pair Marking	**A0266828**
BIX Distribution Connector, 4-pair Marking	**A0393146**
Multiplying Connector	
BIX Multiplying Connector, QCBIX2A, 25-pair, 12x2-pair	**A0269923**
BIX Multiplying Connector, QCBIX5A, 25-pair, 5x5-pair	**A0266827**
BIX Multiplying Connector, QCBIX7A, 25-pair, 2x2-pair & 3x7-pair	**A0269925**
Modular Jack Connector	
BIX Modular Jack Connector, NXXCBMC6U, 6-port, PS5E, T568A/B Coded	**AX100798**
BIX Modular Jack Connector, QCBIX36D, 6-port, USOC, 8-pin	**A0341173**
BIX Modular Jack Connector, QCBIX36C, 8-port, USOC, 6-pin	**A0330864**
BIX Modular Jack Connector, QCBIX36B, 12-port, USOC, 4-pin	**A0330863**

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BIX Cross-Connect System

Mounts, Covers and Wire Management Accessories

A0340836 QMBIX12E BIX Mount, 300-pair



A0284798 QMBIX10C BIX Mount, 50-pair



A0277853 QMBIX31A 50-pair Mount with Locking Cover



A0285986 Locking Cover for 250-pair Mount



A0276396 BIX Cover, QMBIX10A, Stand-alone installation, Locking



A0270168 Distribution Ring



BIX Mount

BIX mounts are basic components used in building a cross-connect system. They can accept BIX distribution, multiplying or modular jack connectors. The 300 and 250-pair mounts can be wall-mounted or installed on BIX frames. These mounts feature an interlocking design allowing them to be stacked for larger cross-connect installations.

The BIX 50-pair mount is typically used in small cross-connect installations. Also available is a 50-pair mount with cover that is sold as an assembly and is typically used in small cross-connect installations where security and/or dust protection is required.

BIX Cover

BIX covers can be used to restrict access of cross-connect installations for better protection and security. Two sizes are available to suit either the QMBIX12E 300-pair mount or the QMBIX10A 250-pair mount. The two locking covers used in wall or frame-mounted installations are molded with translucent plastic allowing visual inspection. Also available are two covers used exclusively in stand-alone QMBIX10A 250-pair mount installations: one locking, the other non-locking – both have four cable entries, one at each corner.

Distribution Ring

The distribution ring is used in wall mount installations providing a cross-connect channel for jumper wires, patch cords and cables. The distribution ring interlocks with the QMBIX12E or QMBIX10A mounts, providing proper spacing and alignment.

Description	Belden Part Number
BIX Cross-Connect System	
BIX Mount	
BIX Mount, QMBIX12E (300-pair)	**A0340836**
BIX Mount, QMBIX10A (250-pair)	**A0270164**
BIX Mount, QMBIX10C (50-pair)	**A0284798**
BIX Mount with Cover	
BIX Mount with Cover, (Locking), 50-pair	**A0277853**
BIX Mount with Cover, (Snap-on), 50-pair	**A0277854**
BIX Locking Cover	
BIX Locking Cover, for QMBIX12E (300-pair)	**A0340838**
BIX Locking Cover, for QMBIX10A (250-pair)	**A0285986**
BIX Cover	
BIX Cover, QMBIX10A, Stand-alone installation, locking	**A0276396**
BIX Cover, QMBIX10A, Stand-alone installation, non-locking	**A0276394**
Distribution Ring	
Distribution Ring	**A0270168**

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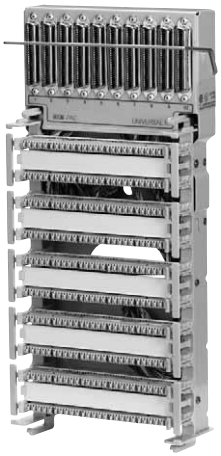
BIX Cross-Connect System

BIX Distribution Frames, Universal BIX-PAC and Trunk Access Blocks

A0340837 BIX Frame



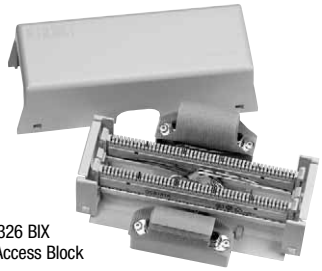
A0321776 Universal BIX-PAC Version 10-10



A0318897 BIX PAC Enclosure



A0327326 BIX Trunk Access Block



BIX Distribution Frame

BIX distribution frames provide a compact mounting unit for large cross-connect installations. The QFBIX24E BIX Frame can accommodate up to 16 QMBIX12E 300-pair mounts, eight on the vertical side and eight on the horizontal side. The QFBIX24E BIX frame has a capacity of 4800-pair. The QFBIX24A BIX Frame can accommodate up to 16 QMBIX10A 250-pair mounts, eight on the vertical side and eight on the horizontal side. The QFBIX24A BIX Frame has a capacity of 4000-pair.

The BIX frame end kit consists of eight cable trays and eight distribution rings plus appropriate mounting hardware. One kit is required to support cross-connect wires on the sides of the shelves in a single-frame installation or on the end frames of a multi-frame installation.

The distribution rings are plastic rings used to manage cross-connect wires.

Universal BIX-PAC

The universal BIX-PAC provides a fast, factory-wired, pre-tested and easy-to-install method of terminating wiring for the voice environment. A typical application for this product is in the main distribution terminal system or the riser terminal system, where it can provide connectivity and cross-connection for up to 250 pairs. The units come equipped with up to 10 QCBIX1A connectors and 10 fifty-pin type telco connectors for the termination of connectorized cables. Also available is a BIX-PAC enclosure, which is a fire-retardant polystyrene structural foam box that can house one BIX-PAC. The enclosure has a snap-on cover and removable panels for cable entry on top, bottom and sides.

BIX Trunk Access Block

BIX trunk access blocks provide a fast, factory-wired, pre-tested and easy-to-install method for demarcation or testing points on customer premises. Typical applications are in the building entrance system or the main distribution terminal system, where the demarcation point between the network provider and the customer equipment usually can be found.

Description	Belden Part Number
BIX Cross-Connect System	
BIX Distribution Frame	
BIX Distribution Frame, 4800-pair (4 Shelves for 16 Mounts, 300-pair)	**A0340837**
BIX Distribution Frame, 4000-pair (4 Shelves for 16 Mounts, 250-pair)	**A0275511**
BIX Distribution Frame Accessories	
BIX Distribution Frame Accessories, End Kit (4 Shelves)	**A0275512***
BIX Distribution Frame Accessories, Distribution Ring	**P0596540***
Universal BIX-PAC	
Universal BIX-PAC, 10-8, 8 RJ21X Female to 8 QCBIX1A Connectors	**A0321775**
Universal BIX-PAC, 10-10, 10 RJ21X Female to 10 QCBIX1A Connectors	**A0321776**
BIX PAC Enclosure	
BIX PAC Enclosure, Grey	**A0318897**
BIX Trunk Access Block	
BIX Trunk Access Block, 1 RJ21X Female to 1 QCBIX1A Connector	**A0327325**
BIX Trunk Access Block, 2 RJ21X Female to 2 QCBIX1A Connector	**A0327326**

* Eight distribution rings come as part of the BIX distribution frame end kit.
Additional distribution rings can be ordered separately. Use (1) end kit per row of frames.

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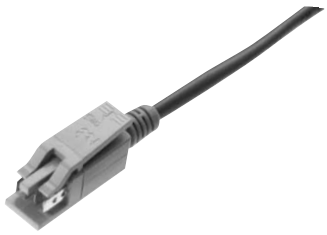
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BIX Cross-Connect System

BIX Patch Cords and B-Plus Cross-Connect Wire

A0410494 BIX Patch Cord, BIX-BIX, 2-pair



A0410469 BIX Patch Cord, BIX-BIX, 1-pair



22208260 B-Plus Cross-Connect Wire



BIX Patch Cords

BIX patch cords allow for high-density connections, coupled with flexibility for cost-effective installation and administration. Installation and rearrangement of patch cords do not require any special tools or training. BIX patch cord plugs terminate directly into QCBIX1A/1A4 connectors.

B-Plus Cross-Connect Wire

B-Plus cross-connect wire is intended primarily for use between incoming cables and station equipment in a telecommunications room or at a main cross-connect.

Z cross-connect wire is intended primarily for use in voice applications such as cross-connecting PBX or key telephone system equipment to backbone or horizontal distribution cables.

Description	Belden Part Number
BIX Cross-Connect System	
BIX Patch Cord	
BIX Patch Cord, BIX-BIX, 2-pair, 1.2 m (4 ft.)	**A0410494**
BIX Patch Cord, BIX-BIX, 1-pair, 1.2 m (4 ft.)	**A0410469**
BIX Patch Cord, BIX-BIX, 2-pair, 2.1 m (7 ft.)	**A0410495**
BIX Patch Cord, BIX-BIX, 1-pair, 2.1 m (7 ft.)	**A0410471**
BIX Patch Cord, BIX-BIX, 2-pair, 3.0 m (10 ft.)	**A0410496**
BIX Patch Cord, BIX-BIX, 1-pair, 3.0 m (10 ft.)	**A0410473**
BIX Patch Cord, BIX-BIX, 2-pair, 4.6 m (15 ft.)	**A0410497**
BIX Patch Cord, BIX-BIX, 1-pair, 4.6 m (15 ft.)	**A0410475**
BIX Patch Cord, BIX-BIX, 1-pair, 7.6 m (25 ft.)	**A0410493**

For 4-pair connections, please see the GigaBIX patch cord section.

B-Plus Cross-Connect Wire	
24 AWG, 1-pair, Wh/Bl, 305 m (1000 ft.), K-Carton	**22208250**
24 AWG, 1-pair, Wh/Bl, 305 m (1000 ft.), Spool (S77)	**22208253**
24 AWG, 2-pair, Wh/Bl/Wh/Or, 305 m (1000 ft.), K-Carton	**22208260**
24 AWG, 2-pair, Wh/Gr/Wh/Or, 305 m (1000 ft.), K-Carton	**22208231**
24 AWG, 3-pair, Wh/Bl/Wh/Or/Wh/Gr, 152 m (500 ft.), K-Carton	**22208265**
24 AWG, 3-pair, Wh/Bl/Wh/Or/Wh/Gr, 200 m, K-Carton	**22208235**
24 AWG, 4-pair, Wh/Bl/Wh/Or/Wh/Gr/Wh/Br, 152 m (500 ft.), K-Carton	**22208270**
Z Cross-Connect Wire	
Z Cross-Connect Wire, 24 AWG, 1-pair, Bl/Ye, 300 m (984 ft.), Spool	**22208010**
Z Cross-Connect Wire, 24 AWG, 1-pair, Bl/Rd, 300 m (984 ft.), Spool	**22208067**

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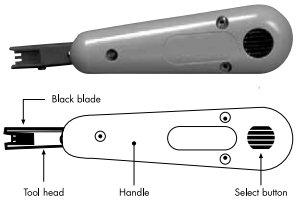
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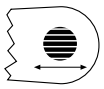
BIX Cross-Connect System

BIX Tools, Testing Tools, Accessories and Designation Strip

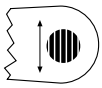
A0270165 BIX Connecting Tool



Tool in CUT position



Tool in NO CUT position



C0054642
Tool Pouch



A0270166 BIX
Test Probe



A0270172
Special Service Guard



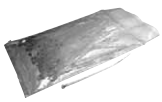
A0325493
Bridging Clip



P0660798 BIX
Wire Retainer



C0039222 BIX
Cable Tie



19″/23″ (0.48 m/0.58 m)
Rack Bracket Kits



A0270169 BIX
Designation Strip



BIX Connecting Tool

The BIX connecting tool is the only tool required to terminate cables, pigtails or jumper wires on all GigaBIX and BIX connection products. The BIX connecting tool is a spring-activated hand tool. A single forward movement will seat the wire into the BIX IDC clip and cut off the excess wire. The tool will terminate 22-26-AWG plastic insulated solid copper conductors. A separate leather BIX tool pouch to carry and protect the BIX tool can be ordered.

BIX Test Probe

The BIX test probe is a single-pair probe that clips onto the termination clip of BIX distribution or BIX modular jack connectors to facilitate testing.

BIX Accessories

The BIX special service guard is a single-pair red plastic clip used to identify a connection within a BIX distribution field that requires special attention prior to any maintenance work.

The BIX bridging clip is a single-pair clip used to bridge single-pair connections of two BIX connectors.

The BIX wire retainer is a plastic extrusion that fits over the terminated wires on a BIX connector to prevent them from being pulled out of the IDC contacts. It can be used to secure a permanent connection on either side of a BIX connector.

This 19″ (0.48 m) rack bracket kit provides the hardware for BIX mount installation into a 19″ (0.48 m) rack. This kit comes complete with two mounting bars, four screws for rack mounting, four screws for BIX mount assemblies and an installation guide.
BIX cable ties are used for securing wire bundles to the BIX connector.

BIX Designation Strip

The BIX designation strip is designed to be used in conjunction with all BIX mounts and BIX connectors. It snaps in between two connectors and provides space for self adhesive BIX labels. The strip is made of white fire-retardant plastic, with ridges on the top and bottom for easy alignment and placement of designation labels. (See the LabelFlex section for designation labels.)

Description	Belden Part Number
BIX Cross-Connect System	
BIX Tools	
BIX Connecting Tool	**A0270165**
Tool Pouch	**C0054642**
BIX Test Probe	
BIX Test Probe, 1-pair, 1/pack	**A0270166**
BIX Accessories	
BIX Special Service Guard, 1-pair, Red, 50/pack	**A0270172**
BIX Bridging Clip, 1-pair, Grey, 50/pack	**A0325091**
BIX Bridging Clip, 1-pair, White, 50/pack	**A0325493**
BIX Wire Retainer, 100/pack	**P0660798**
19″ (0.48 m) Rack Bracket Kit, 2 bars/pack	**A0352331**
23″ (0.58 m) Rack Bracket Kit, 2 bars/pack	**NN00043**
BIX Cable Tie, 100/pack	**C0039222**
BIX Designation Strip	
BIX Designation Strip, White, 50/pack	**A0270169**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

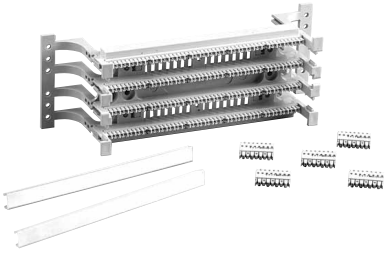
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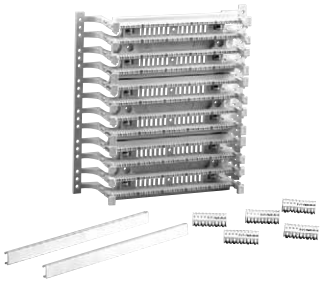
110 Cross-Connect System

110 Cross-Connect Kits, 110 Connecting Blocks, 110 Wall Mount Frame Kits and 110 Wiring Blocks

AX100694 110 Cross-Connect Kit, 100-pair



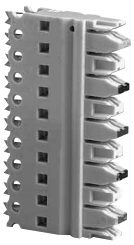
AX100696 110 Cross-Connect Kit, 300-pair



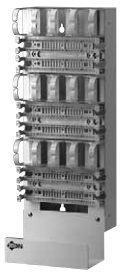
AX100707 110 Connecting Block, 4-pair



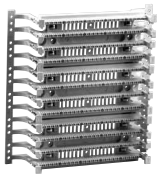
AX100708 110 Connecting Block, 5-pair



AX100697 110 Wall Mount Frame Kit, 300-pair



AX100692 Wiring Block, 300-pair



AX100691 Wiring Block, 100-pair



110 Cross-Connect Kit

110 cross-connect kits contain all material required to terminate distribution or equipment cables into a 110 cross-connect system. Kits consist of one wiring block (100-pair or 300-pair) with legs, connecting blocks (4-pair or 5-pair), designation strips and labels.

110 Connecting Block

The 110 connecting blocks are modular connectors equipped with double-sided Insulation Displacement Connection (IDC) clips that are used to terminate plastic insulated solid copper conductors in 110 wiring blocks. The color-coded connecting blocks are available in 4-pair and 5-pair configurations. These blocks are compatible with other existing 110 cross-connect systems.

110 Wall Mount Frame Kit

110 wall mount frame kits simplify planning, organizing and implementation of wall mounted cross-connect systems. They are available in 300-pair and 900-pair configurations making them ideal for small telecommunications room installations. Kits consist of wiring blocks and cable management troughs to be mounted on a cable channel. Kits include all components required to complete a 110 cross-connect installation with either 4-pair or 5-pair connecting blocks.

110 Wiring Block

110 wiring blocks are rigid plastic indexing strip assemblies designed to hold and align wires prior to terminating 110 connecting blocks. 110 wiring blocks are available in 100-pair and 300-pair configurations with legs and 100-pair without legs. 110 wiring blocks are compatible with 22 to 26 AWG wires and accept 4-pair or 5-pair connecting blocks. They are specially designed to simplify data cabling installations. A deeper channel and open slots in the base allow cable to be brought close to the termination point. These blocks are compatible with other existing 110 cross-connect systems.

Description	Belden Part Number
110 Cross-Connect System	
110 Cross-Connect Kit	
110 Cross-Connect Kit, 100-pair, with 4-pair Connecting Blocks	**AX100693**
110 Cross-Connect Kit, 100-pair, with 5-pair Connecting Blocks	**AX100694**
110 Cross-Connect Kit, 300-pair, with 4-pair Connecting Blocks	**AX100695**
110 Cross-Connect Kit, 300-pair, with 5-pair Connecting Blocks	**AX100696**
110 Connecting Block	
110 Connecting Block, 110C4, 4-pair	**AX100707**
110 Connecting Block, 110C5, 5-pair	**AX100708**
110 Wall Mount Frame Kit	
110 Wall Mount Frame Kit, 300-pair, with 4-pair Connecting Blocks	**AX100697**
110 Wall Mount Frame Kit, 300-pair, with 5-pair Connecting Blocks	**AX100698**
110 Wall Mount Frame Kit, 900-pair, with 4-pair Connecting Blocks	**AX100699**
110 Wall Mount Frame Kit, 900-pair, with 5-pair Connecting Blocks	**AX100700**
110 Wiring Block	
110 Wiring Block, 100-pair, without legs	**AX100690**
110 Wiring Block, 100-pair, with legs	**AX100691**
110 Wiring Block, 300-pair, with legs	**AX100692**

The 110 cross-connect system is not available in all countries.

These products are in the process of being assessed for RoHS compliance.
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110 Cross-Connect System

110 Designation Strip and Management Accessories

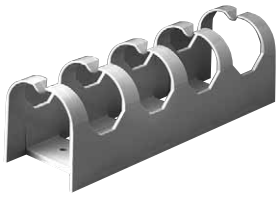
AX100721 110 Designation Strip



110 Designation Strip

The 110 designation strip is designed to be used in conjunction with all 110 wiring blocks. It snaps in between two rows of 110 connecting blocks and provides space to insert a designation label. The strip is made of clear PVC.

AX100705 Cable Management Trough



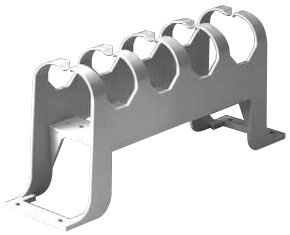
110 Management Accessories

Cable management troughs are utilized as channels positioned between wiring blocks for horizontal or vertical dressing of cross-connect wires and patch cords. They are available with and without mounting legs.

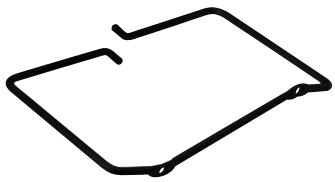
Cable management rings are used for management of cross-connect wires and cables in 110 cross-connect systems. They can be mounted directly onto a plywood backboard between columns of wiring blocks. They are available in two different sizes.

Wall mount cable management frames are pre-assembled vertical cable managers that are used between 110 wall mount frame kits for vertical management of patch cords. They simplify planning and installation of 110 cross-connect systems. They are available in two sizes to use with 300-pair and 900-pair wall mount frame kits.

AX100706 Cable Management Trough with Legs



AX100703 Cable Management Ring



AX100701 Wall Mount Cable Management Frame, 300-pair



Description	Belden Part Number
110 Cross-Connect System	
110 Designation Strip	
110 Designation Strip	**AX100721**
110 Management Accessories	
Cable Management Trough, without legs	**AX100705**
Cable Management Trough, with legs	**AX100706**
Cable Management Ring, Small 144.8 mm (5.7″)	**AX100703**
Cable Management Ring, Large 216 mm (8.5″)	**AX100704**
Wall Mount Cable Management Frame, 300-pair	**AX100701**
Wall Mount Cable Management Frame, 900-pair	**AX100702**

The 110 cross-connect system is not available in all countries.

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

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110 Cross-Connect System

110 Patch Cords

AX300001 PS5E 110 Patch Cord, 110-110, 4-pair



AX300010 PS5E 110 Patch Cord, 110-8MOD, 4-pair



AX300013 110 Patch Cord, 110-110, 2-pair



110 Patch Cord

110 patch cords allow for high density connections in a 110 cross-connect system. 110 patch cord rearrangements do not require any special tools or training thus providing flexibility for cost-effective installation and administration. 110 patch cords are available in two different configurations. 110-110 patch cord configurations are used for easy cross-connection between equipment and distribution fields.

110-8MOD patch cord configurations are used to easily interconnect equipment utilizing 8-position modular jacks directly into 110C4/C5 connecting blocks in the distribution field. PS5E 110 patch cords offer Category 5e performance. These patch cords are compatible with other existing 110 cross-connect systems.

110 Patch Cord Connector

110 patch cord connectors are available in 1, 2 and 4-pair configurations for field assembly of Category 5 patch cords. They can terminate plastic insulated stranded copper conductors 24 AWG.

Description	Belden Part Number
110 Cross-Connect System	
110 Patch Cord	
110 Patch Cord, PS5E 110-110, 4-pair, 1.2 m (4 ft.)	**AX300001**
110 Patch Cord, PS5E 110-110, 4-pair, 1.8 m (6 ft.)	**AX300002**
110 Patch Cord, PS5E 110-110, 4-pair, 2.4 m (8 ft.)	**AX300025**
110 Patch Cord, PS5E 110-110, 4-pair, 3.0 m (10 ft.)	**AX300026**
110 Patch Cord, PS5E 110-110, 4-pair, 6.1 m (20 ft.)	**AX300027**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 1.2 m (4 ft.)	**AX300010**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 1.8 m (6 ft.)	**AX300009**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 2.4 m (8 ft.)	**AX300029**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 3.0 m (10 ft.)	**AX300030**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568A, 6.1 m (20 ft.)	**AX300032**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 1.2 m (4 ft.)	**AX300008**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 1.8 m (6 ft.)	**AX300005**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 2.4 m (8 ft.)	**AX300011**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 3.0 m (10 ft.)	**AX300034**
110 Patch Cord, PS5E 110-8MOD, 4-pair, T568B, 6.1 m (20 ft.)	**AX300017**
110 Patch Cord, 110-110, 2-pair, 1.2 m (4 ft.)	**AX300013**
110 Patch Cord, 110-110, 2-pair, 1.8 m (6 ft.)	**AX300014**
110 Patch Cord, 110-110, 2-pair, 2.4 m (8 ft.)	**AX300015**
110 Patch Cord, 110-110, 2-pair, 3.0 m (10 ft.)	**AX300037**
110 Patch Cord, 110-110, 2-pair, 6.1 m (20 ft.)	**AX300038**
110 Patch Cord, 110-110, 1-pair, 0.6 m (2 ft.)	**AX300039**
110 Patch Cord, 110-110, 1-pair, 1.2 m (4 ft.)	**AX300006**
110 Patch Cord, 110-110, 1-pair, 1.8 m (6 ft.)	**AX300007**
110 Patch Cord, 110-110, 1-pair, 2.4 m (8 ft.)	**AX300012**
110 Patch Cord, 110-110, 1-pair, 3.0 m (10 ft.)	**AX300021**
110 Patch Cord, 110-110, 1-pair, 6.1 m (20 ft.)	**AX300040**
110 Patch Cord Connector	
110 Patch Cord Connector, 4-pair	**AX100711**
110 Patch Cord Connector, 2-pair	**AX100710**
110 Patch Cord Connector, 1-pair	**AX100709**

The 110 cross-connect system is not available in all countries.
Other lengths are available, please contact customer service for further details.

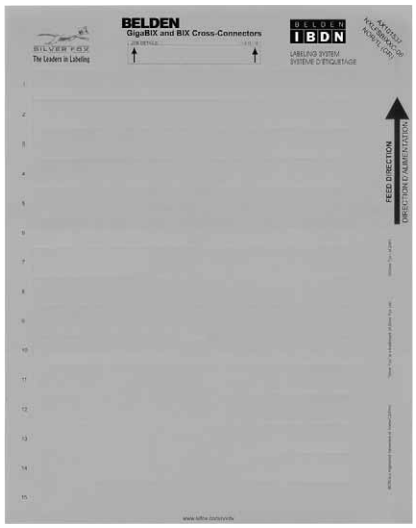
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Labels
LabelFlex

AX101537 LabelFlex Labels



LabelFlex – Automated Labeling Solution

The LabelFlex solution is aimed at simplifying network management. Using the labeling system (software and label types), the installer can rapidly produce quality, application specific labels for most Belden IBDN products in a fraction of the time taken by traditional methods.

The range of Belden IBDN products covered by the labeling system is:

- GigaBIX & BIX cross-connect systems
- Flex patch panels
- ID tubes
- BIX Modular jack connectors
- Workstation outlets
- PS5E HD patch panels
- 110 cross-connect system
- MediaFlex faceplates series
- GigaFlex PS6+ patch panels
- Cable applications, 4-pair and 25-pair

Description	Belden Part Number
Labels for MediaFlex Faceplates	
Almond/Silver, 30 labels/sheet, 10 sheets/pack	**AX101820**
White, 30 labels/sheet, 10 sheets/pack	**AX101821**
Labels for BIX and GigaBIX	
Grey, 15 labels/sheet, 5 sheets/pack	**AX101532**
White, 15 labels/sheet, 5 sheets/pack	**AX101533**
Orange, 15 labels/sheet, 5 sheets/pack	**AX101534**
Red, 15 labels/sheet, 5 sheets/pack	**AX101535**
Yellow, 15 labels/sheet, 5 sheets/pack	**AX101536**
Green, 15 labels/sheet, 5 sheets/pack	**AX101537**
Blue, 15 labels/sheet, 5 sheets/pack	**AX101538**
Purple, 15 labels/sheet, 5 sheets/pack	**AX101539**
Brown, 15 labels/sheet, 5 sheets/pack	**AX101540**
Silver, 15 labels/sheet, 5 sheets/pack	**AX101541**
Labels for BIX Modular Jack Connector	
Grey, 28 labels/sheet, 5 sheets/pack	**AX101542**
White, 28 labels/sheet, 5 sheets/pack	**AX101543**
Orange, 28 labels/sheet, 5 sheets/pack	**AX101544**
Red, 28 labels/sheet, 5 sheets/pack	**AX101545**
Yellow, 28 labels/sheet, 5 sheets/pack	**AX101546**
Green, 28 labels/sheet, 5 sheets/pack	**AX101547**
Blue, 28 labels/sheet, 5 sheets/pack	**AX101548**
Purple, 28 labels/sheet, 5 sheets/pack	**AX101549**
Brown, 28 labels/sheet, 5 sheets/pack	**AX101550**
Silver, 28 labels/sheet, 5 sheets/pack	**AX101584**
Labels for Patch Panels, Outlets and Cables	
Labels for Flex Patch Panels, White, 28 labels/sheet, 5 sheets/pack	**AX101551**
Labels for Workstation Faceplates, White, 80 labels/sheet, 25 sheets/pack	**AX101552**
Labels for Workstation Single Port ID, White, 450 labels/sheet, 5 sheets/pack	**AX101553**
Labels for HD Patch Panels, White, 18 labels/sheet, 5 sheets/pack	**AX101554**
Labels for GigaFlex PS6+ Patch Panels, White, 28 labels/sheet, 5 sheets/pack	**AX101626**
Labels for 4-pair cables, Grey, 48 labels/sheet, 25 sheets/pack	**AX101555**
Labels for 25-pair cables, White, 24 labels/sheet, 25 sheets/pack	**AX101556**
Labels for 110 Cross-Connect	
Grey, 18 labels/sheet, 5 sheets/pack	**AX101557**
White, 18 labels/sheet, 5 sheets/pack	**AX101558**
Orange, 18 labels/sheet, 5 sheets/pack	**AX101559**
Red, 18 labels/sheet, 5 sheets/pack	**AX101560**
Yellow, 18 labels/sheet, 5 sheets/pack	**AX101561**
Green, 18 labels/sheet, 5 sheets/pack	**AX101562**
Blue, 18 labels/sheet, 5 sheets/pack	**AX101563**
Purple, 18 labels/sheet, 5 sheets/pack	**AX101564**
Brown, 18 labels/sheet, 5 sheets/pack	**AX101565**
Labels for ID Tubes	
3.1″ (0.08 m) long, White, 32 labels/sheet, 5 sheets/pack	**AX101566**
4.4″ (0.11 m) long, White, 30 labels/sheet, 5 sheets/pack	**AX101567**
7.4″ (0.19 m) long, White, 19 labels/sheet, 5 sheets/pack	**AX101568**
Software	
Automated LabelFlex Advanced Software, 1 CD/pack	**AX101569**

The 110 cross-connect system is not available in all countries.
Other lengths are available, please contact customer service for further details.

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Patch Panels

GigaFlex PS6+ Patch Panels Category 6, Telepanel

AX101613 GigaFlex PS6+ Patch Panel, 2U, 48-port



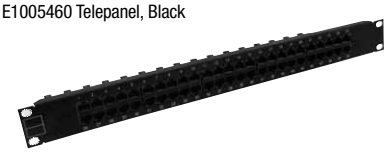
GigaFlex PS6+ Patch Panel

The GigaFlex PS6+ patch panel is a fully loaded patch panel using black GigaFlex PS6+ modules. The unmatched performance of the GigaFlex PS6+ module exceeds all parameters specified in the Category 6 standard. All performance characteristics including NEXT, FEXT, Attenuation and Return Loss have been set to guarantee transmission performance up to 300 MHz and a data-rate of up to 4.8 Gb/s.

Description	Belden Part Number
Patch Panels	
GigaFlex PS6+ Patch Panel	
GigaFlex PS6+ Patch Panel, 1U, 24-port, Grey	**AX101612**
GigaFlex PS6+ Patch Panel, 1U, 24-port, Black	**AX101611**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Grey	**AX101614**
GigaFlex PS6+ Patch Panel, 2U, 48-port, Black	**AX101613**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

E1005460 Telepanel, Black



Telepanel

The 50-ports telepanel is supplied in an easy and functional design with fixed cable guide prepared for use of Velcro tape or strips. All jacks are mounted as RJ45, enabling the use of general patch cables. The panel is available in white and black color with numbering from 1 to 50. Mounting is carried out by means of a “KRONE” tool.

Description	Belden Part Number
Telepanel	
Telepanel, 1U, 50-ports, Black	**E1005460**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

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Patch Panels

PS5E HD Patch Panels Category 5e, PS5E BIX Patch Panels Category 5e and Flex Patch Panels

AX100465 PS5E HD Patch Panel, 1U, 24-port



PS5E HD Patch Panel

The Universal PS5E HD patch panels series includes a variety of product styles, sizes and wiring configurations. PS5E HD patch panels are robust and installer-friendly products by design, combining punch down connectors with standard modular jacks. They are available in both BIX and 110 Insulation Displacement Connection (IDC) options. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately). PS5E HD patch panels offer Category 5e performance.

AX100473 PS5E HD Patch Panel, 2U, 48-port



PS5E BIX Patch Panel

The PS5E BIX patch panel is a medium density panel, 24-port in 2 rack space units, for easier installation and cable management than high density panels. The PS5E BIX patch panel is a robust and installer-friendly product by design, combining BIX punch down connectors with standard modular jacks. The patch panel features built-in wire management to secure cable bundles and to control and maintain patch cord bend radius. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management (ordered separately). The PS5E BIX patch panel offers Category 5e performance.

AX100506 BIX Patch Panel, 2U, 24-port



Flex Patch Panel

Flex patch panels provide a flexible and versatile termination solution for telecommunications room rack-mounted installations. The panels can be custom configured in the field to suit practically any particular configuration. Flex patch panels are compatible with GigaFlex and EZ-MDVO modules as well as MDVO-style multimedia modules. Modules are ordered separately.

AX101456 Flex Patch Panel



Description	Belden Part Number
Patch Panels	
PS5E HD Patch Panel	
PS5E HD-BIX Patch Panel, 1U, 24-port, Grey, T568A/B	**AX100464**
PS5E HD-BIX Patch Panel, 1U, 24-port, Black, T568A/B	**AX100465**
PS5E HD-BIX Patch Panel, 2U, 48-port, Grey, T568A/B	**AX100472**
PS5E HD-BIX Patch Panel, 2U, 48-port, Black, T568A/B	**AX100473**
PS5E HD-110 Patch Panel, 1U, 24-port, Black, T568B/A	**AX100452**
PS5E HD-110 Patch Panel, 2U, 48-port, Black, T568B/A	**AX100454**

The PS5E HD-110 Patch Panel is not available in all countries.
Other configurations are available, please contact customer service for further details.

PS5E BIX Patch Panel	
PS5E BIX Patch Panel, 2U, 24-port, Grey, T568A-ISDN	**AX100505**
PS5E BIX Patch Panel, 2U, 24-port, Black, T568A-ISDN	**AX100506**
Flex Patch Panel	
Flex Patch Panel, 1U, 24-port, Grey	**AX101571**
Flex Patch Panel, 1U, 24-port, Black	**AX101456**
Flex Patch Panel, 2U, 48-port, Grey	**AX101573**
Flex Patch Panel, 2U, 48-port, Black	**AX101458**

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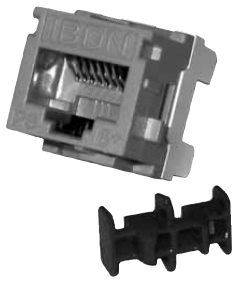
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Workstation Outlets

GigaFlex PS6+ Modules Category 6

AX101067 GigaFlex PS6+Module



GigaFlex PS6+ Module

The GigaFlex PS6+ module is a punch down UTP connector based on a patented encapsulated lead frame technology ensuring excellent long-term reliability as well as extremely stable transmission performance. The unmatched Beyond Cat 6 performance exceeds all parameters specified in the Category 6 standard. All performance characteristics have been set to guarantee transmission performance up to 300 MHz and a data-rate of up to 4.8 Gb/s.

The GigaFlex PS6+ is the module of choice for terminating UTP cables into the MediaFlex and interface outlet series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications room applications.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices.

Also available is the GigaFlex PS6+ module, clipsal-style which is fully compatible with clipsal faceplates and mounting hardware.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Workstation Outlets		
GigaFlex PS6+ Module		
T568A/B, Grey	**AX101063**	**AX101318**
T568A/B, Almond	**AX101064**	**AX101319**
T568A/B, White	**AX101065**	**AX101320**
T568A/B, Black	**AX101066**	**AX101321**
T568A/B, Orange	**AX101067**	**AX101322**
T568A/B, Red	**AX101068**	**AX101323**
T568A/B, Yellow	**AX101069**	**AX101324**
T568A/B, Green	**AX101070**	**AX101325**
T568A/B, Blue	**AX101071**	**AX101326**
T568A/B, Purple	**AX101072**	**AX101327**
T568A/B, Brown	**AX101073**	**AX101328**
T568A/B, Ivory	**AX102563**	**–**

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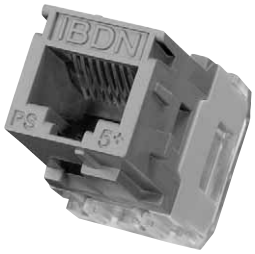
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Workstation Outlets

GigaFlex PS5E Modules Category 5e

AX101051 GigaFlex PS5E Module



GigaFlex PS5E Module

The GigaFlex PS5E module is a punch down UTP connector based on a patented encapsulated lead frame technology ensuring excellent long term reliability as well as extremely stable transmission performance. The PS5E-rated performance exceeds all requirements specified in the Category 5e standard. All performance parameters including NEXT, FEXT, Attenuation and Return Loss have been set to guarantee transmission performance up to 160 MHz and a data-rate of up to 1.2 Gb/s.

The GigaFlex PS5E is the module of choice for terminating UTP cables into the MediaFlex and interface outlet series. It can also be mixed and matched with a wide variety of MDVO adapters, boxes and patch panels to suit practically any installation configuration for workstation outlet, consolidation point and telecommunications room applications.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Workstation Outlets		
GigaFlex PS5E Module		
T568A/B, Grey	**AX101044**	**AX101307**
T568A/B, Almond	**AX101045**	**AX101308**
T568A/B, White	**AX101046**	**AX101309**
T568A/B, Black	**AX101047**	**AX101310**
T568A/B, Orange	**AX101048**	**AX101311**
T568A/B, Red	**AX101049**	**AX101312**
T568A/B, Yellow	**AX101050**	**AX101313**
T568A/B, Green	**AX101051**	**AX101314**
T568A/B, Blue	**AX101052**	**AX101315**
T568A/B, Purple	**AX101053**	**AX101316**
T568A/B, Brown	**AX101054**	**AX101317**
T568A/B, Ivory	**AX102564**	**–**

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Workstation Outlets

EZ-MDVO PS5E Modules Category 5e

AX100654 EZ-MDVO PS5E Module



EZ-MDVO PS5E Module

The EZ-MDVO module is built with a patented lead frame design and encapsulated insulation displacement contacts, ensuring reliable connections and performance well above Category 5e standards. The EZ-MDVO module termination cap is what is so unique about this product. It allows for a simple and fast “press-fit” installation while ensuring consistent wire termination every time it is snap-locked. The module termination cap is color-coded to facilitate wire arrangement and speed up installation time. The termination cap is printed with the T568A/B color-codes. The EZ-MDVO modules can be mixed and matched with a wide variety of MediaFlex, Interface and MDVO-style faceplates, adapters and boxes to suit practically any installation configuration for workstation outlet installations.

A keystone-style is also available for terminating UTP cables into keystone-style mounting hardware. It can be easily snapped into simple sheet metal cut-outs (panel mounting) for installation into consolidation point or multi-user custom-built devices. Clipsal-style EZ-MDVO modules are available for installations using commercially available clipsal faceplates and HPM-style EZ-MDVO modules are available for installations using commercially available HPM faceplates.

Description	Belden Part Number	
	MDVO-Style	Keystone-Style
Workstation Outlets		
EZ-MDVO PS5E Module		
T568A/B coded, Grey	**AX100645**	**AX100577**
T568A/B coded, Almond	**AX100646**	**AX100578**
T568A/B coded, White	**AX100647**	**AX100579**
T568A/B coded, Black	**AX100648**	**AX100580**
T568A/B coded, Orange	**AX100649**	**AX100581**
T568A/B coded, Red	**AX100650**	**AX100582**
T568A/B coded, Yellow	**AX100651**	**AX100583**
T568A/B coded, Green	**AX100652**	**AX100584**
T568A/B coded, Blue	**AX100653**	**AX100585**
T568A/B coded, Purple	**AX100654**	**AX100586**
T568A/B coded, Brown	**AX100655**	**AX100587**

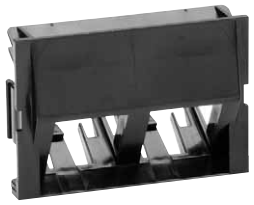
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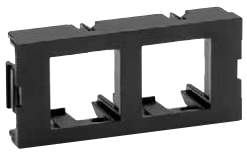
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Workstation Outlets
MediaFlex Inserts

AX101756 MediaFlex MDVO (style) Insert, 2-port, Angled



AX101752 MediaFlex MDVO (style) Insert, 2-port, Flush



AX101760 MediaFlex Filler Insert, 1-unit



AX101764 MediaFlex Filler Insert, 2-unit



AX101768 PS6+ MediaFlex GigaFlex Insert, 2-port



MediaFlex Insert

MediaFlex inserts provide optimum flexibility in configuring multimedia workstation outlets that respond to any present or future network needs. MediaFlex MDVO-style Inserts along with MediaFlex filler inserts and MediaFlex GigaFlex inserts allow for the easy configuration of outlets. All inserts are front loaded and easily snapped in and out of the MediaFlex plates for simple installation and maintenance.

MediaFlex MDVO-style inserts are available in a 2-port configuration in both flush and angled versions. They are compatible with all GigaFlex and MDVO modules (EZ-MDVO and multimedia). The inserts are two units high for the flush version and three units high for the angled version. Therefore three flush inserts or two angled inserts are required to fully populate a single gang MediaFlex plate.

MediaFlex GigaFlex Inserts are available in a 2-port configuration in both PS5E (Category 5e) and PS6+ (beyond Category 6) performance levels. The inserts are two units high, therefore three inserts can be used to fully populate a single gang MediaFlex plate making up a 6-port outlet.

MediaFlex filler inserts are used to fill the unused spaces in low density workstation outlets. They are available in one unit and two unit sizes.

Description	Belden Part Number	
Workstation Outlets		
MediaFlex MDVO (style) Insert	**Flush**	**Angled**
2-port, Grey, bag of 10 units	**AX101749**	**AX101753**
2-port, Almond, bag of 10 units	**AX101750**	**AX101754**
2-port, Elec. White, bag of 10 units	**AX101751**	**AX101755**
2-port, Black, bag of 10 units	**AX101752**	**AX101756**
2-port, White, bag of 10 units	**AX102612**	**AX102613**
2-port, Ivory, bag of 10 units	**AX102572**	**AX102573**
MediaFlex GigaFlex Insert	**PS6+**	**PS5E**
2-port, Grey	**AX101765**	**AX101769**
2-port, Almond	**AX101766**	**AX101770**
2-port, Elec. White	**AX101767**	**AX101771**
2-port, Black	**AX101768**	**AX101772**
2-port, Ivory	**AX102574**	**AX102575**
MediaFlex Filler Insert	**1-Unit**	**2-Unit**
Grey, bag of 10 units	**AX101757**	**AX101761**
Almond, bag of 10 units	**AX101758**	**AX101762**
Elec. White, bag of 10 units	**AX101759**	**AX101763**
Black, bag of 10 units	**AX101760**	**AX101764**
White, bag of 10 units	**AX102614**	**AX102615**
Ivory, bag of 10 units	**AX102576**	**AX102577**

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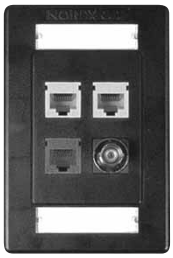
Workstation Outlets

Interface Plate and Surface Adapter Boxes

AX101431 Interface Plate, 2-port, shown here with modules



AX101438 Interface Plate, 4-port, shown here with modules



AX101441 Interface Plate, 6-port, shown here with modules



AX101474 Interface/MDVO Surface Adapter Box



Interface Plate, Flush

Interface plates combine flexibility and ease of use in work area installations. They are designed to accept the EZ-MDVO and GigaFlex UTP modules as well as all the MDVO multimedia modules. The interface plates are available in Single gang and can accept up to 6 modules. They also have labeling capabilities using built-in labeling windows. The faceplates can be attached to standard electrical boxes or wall-mounting hardware for flush-mount installations. The faceplates can also fit over the interface adapter boxes for surface mount installations.

Interface/MDVO Surface Adapter Box

The Interface/MDVO surface adapter box allows surface mounting of interface plates as well as MDVO flush and angled entry faceplates. The box can be mounted on any flat surface or can be attached to standard electrical boxes or wall-mounting hardware for additional storage space.

Description	Belden Part Number
Workstation Outlets	
Interface Plate	
Flush, 2-port, Grey	**AX101431**
Flush, 2-port, Almond	**AX101432**
Flush, 2-port, White	**AX101433**
Flush, 2-port, Black	**AX101434**
Flush, 2-port, Ivory	**AX102582**
Flush, 4-port, Grey	**AX101435**
Flush, 4-port, Almond	**AX101436**
Flush, 4-port, White	**AX101437**
Flush, 4-port, Black	**AX101438**
Flush, 4-port, Ivory	**AX102583**
Flush, 6-port, Grey	**AX101439**
Flush, 6-port, Almond	**AX101440**
Flush, 6-port, White	**AX101441**
Flush, 6-port, Black	**AX101442**
Flush, 6-port, Ivory	**AX102584**
Interface/MDVO Surface Adapter Box	
Single Gang, Grey	**AX101474**
Single Gang, Almond	**AX101475**
Single Gang, White	**AX101476**
Single Gang, Black	**AX101477**
Single Gang, Ivory	**AX102589**

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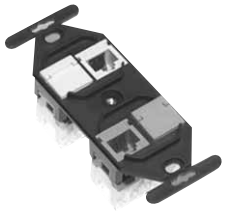
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Workstation Outlets
MDVO Adapters

A0645271 MDVO Side Entry Box, shown here with modules



AX100311 MDVO 106 Adapter, 4-port, shown here with modules



A0409654 MDVO Deco Adapter, shown here with modules



AX100925 MDVO Modular Furniture Adapter, 4-port, shown here with modules



MDVO Adapters

All MDVO adapters are compatible with GigaFlex, EZ-MDVO and MDVO multimedia modules.

The MDVO side entry box can be easily mounted directly on the wall, as well as on modular furniture panels, baseboards and utility poles. The compact size of the box allows secure installation in confined areas such as behind a desk or underneath a workstation.

The MDVO 106 adapters are designed for installations using standard NEMA electrical-style faceplates also referred to as 106-type or duplex wall plates.

The MDVO deco adapter is designed for installations using Decora style wall plates.

MDVO modular furniture adapters are the ideal outlet adapters for open office furniture applications. They can be snapped into any standard opening, in modular furniture settings.

Description	Belden Part Number
Workstation Outlets	
MDVO Adapters	
MDVO Side Entry Box, 2-port, Grey	**A0645271**
MDVO Side Entry Box, 2-port, Almond	**A0645272**
MDVO Side Entry Box, 2-port, White	**A0645273**
MDVO Side Entry Box, 2-port, Black	**A0645274**
MDVO Side Entry Box, 2-port, Ivory	**AX102590**
MDVO 106 Adapter, 2-port, Grey	**AX100304**
MDVO 106 Adapter, 2-port, Almond	**AX100305**
MDVO 106 Adapter, 2-port, White	**AX100306**
MDVO 106 Adapter, 2-port, Black	**AX100307**
MDVO 106 Adapter, 2-port, Ivory	**AX102591**
MDVO 106 Adapter, 4-port, Grey	**AX100308**
MDVO 106 Adapter, 4-port, Almond	**AX100309**
MDVO 106 Adapter, 4-port, White	**AX100310**
MDVO 106 Adapter, 4-port, Black	**AX100311**
MDVO 106 Adapter, 4-port, Ivory	**AX102592**
MDVO Deco Adapter, 3-port, Grey	**A0409651**
MDVO Deco Adapter, 3-port, Almond	**A0409652**
MDVO Deco Adapter, 3-port, White	**A0409653**
MDVO Deco Adapter, 3-port, Black	**A0409654**
MDVO Deco Adapter, 3-port, Ivory	**AX102593**
MDVO Modular Furniture Adapter, 3-port, Grey	**A0407071**
MDVO Modular Furniture Adapter, 3-port, Almond	**A0407072**
MDVO Modular Furniture Adapter, 3-port, White	**A0407073**
MDVO Modular Furniture Adapter, 3-port, Black	**A0407074**
MDVO Modular Furniture Adapter, 3-port, Ivory	**AX102648**
MDVO Modular Furniture Adapter, 4-port, Grey	**AX100925**
MDVO Modular Furniture Adapter, 4-port, Almond	**AX100926**
MDVO Modular Furniture Adapter, 4-port, White	**AX100927**
MDVO Modular Furniture Adapter, 4-port, Black	**AX100928**
MDVO Modular Furniture Adapter, 4-port, Ivory	**AX102594**

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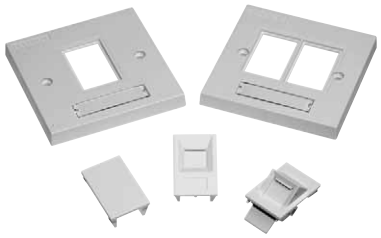
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Workstation Outlets

European Style Faceplates and Inserts

AX101372-73 European “6C” Style Faceplates and AX101377-75-76 European “6C” Inserts



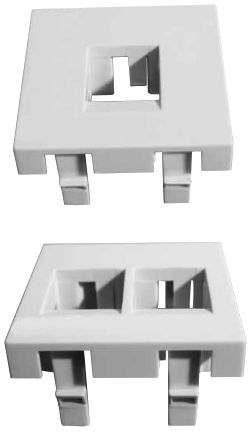
European “6C” Style Faceplate

The European “6C” style faceplates and inserts are designed to accept the GigaFlex and EZ-MDVO UTP modules. They include a shutter to protect the module against dust and other contaminants.

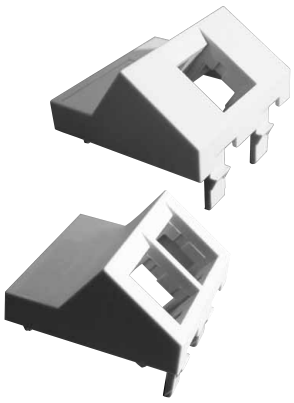
French Style Faceplate

The french style faceplates are designed to accept the EZ-MDVO and GigaFlex UTP modules as well as all the MDVO multimedia modules. The faceplates can be attached to standard 45 mm x 45 mm boxes or mounting hardware for flush-mount installations.

AX101413-14 French Style Faceplates



AX101415-16 French Style Faceplates



Description	Belden Part Number
Workstation Outlets	
European “6C” Style Faceplate	
European “6C” Style Faceplate, Single Gang, Single Aperture, White	**AX101372**
European “6C” Style Faceplate, Single Gang, Dual Aperture, White	**AX101373**
European “6C” Style Faceplate, Double Gang, Quad Aperture, White	**AX101374**
European “6C” Shuttered Module Holder, 1-port, Flush, White	**AX101375**
European “6C” Shuttered Module Holder, 1-port, Angled, White	**AX101376**
European “6C” Blank Insert, White	**AX101377**
French Style Faceplate	
1-port, Flush, White	**AX101413**
2-port, Flush, White	**AX101414**
1-port, Angled, White	**AX101415**
2-port, Angled, White	**AX101416**

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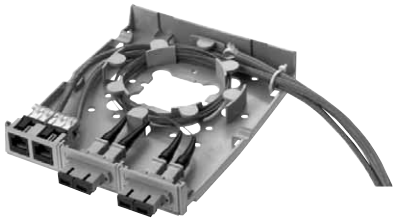
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Workstation Outlets

MDVO Multimedia Outlet Boxes, Multi-User Outlet Boxes and Multi-User Adapter Strips

A0643205 MDVO Multimedia Outlet Box, shown here as terminated





AX100222 Multi-User Outlet Box, shown here with modules



AX100223 MDVO Adapter Strip, 12-port



MDVO Multimedia Outlet Box

The MDVO multimedia outlet box brings unique versatility for multimedia work area installations. The box design provides cable management and helps maintain cable bend radius. The outlet box's low profile design and side-entry offers better protection for patch cords. The outlet box can accept up to six EZ-MDVO, GigaFlex or MDVO multimedia modules or three SC duplex adapters.

The MDVO multimedia outlet box can be mounted directly on the wall or attached to standard electrical boxes. Included with the MDVO multimedia box are three SC duplex mounting bezels and three MDVO adapters.

Multi-User Outlet Box

The multi-user outlet box is a versatile box that can be used in many different applications. The outlet box can accommodate up to 24 connections of any type, UTP, fiber or coax. The outlet box is ideal for use as a multi-user telecommunications assembly, or simply as a high-density multimedia telecommunications outlet. The multi-user outlet box can also be used as a wall mounted patch panel in confined areas, such as shallow rooms and cabinets.

Multi-User Adapter Strips

The Multi-User outlet box design allows for mixed media installations with a choice of connection strips. The box can accept either one or two 12-port MDVO adapter strips, PS5E HD connector module strips (BIX or 110), or a combination of both for a maximum of 24 connections.

Description	Belden Part Number
Workstation Outlets	
MDVO Multimedia Outlet Box	
6-port, Grey	**A0643205**
6-port, Almond	**A0643206**
6-port, White	**A0643207**
6-port, Black	**A0643208**
6-port, Ivory	**AX102595**
Multi-User Outlet Box	
24-port, Grey	**AX100219**
24-port, Almond	**AX100220**
24-port, White	**AX100221**
24-port, Black	**AX100222**
Multi-User Adapter Strips	
MDVO Adapter Strip, 12-port, Empty, Black	**AX100223**
PS5E HD-BIX Connector Module Strip, Universal Wiring 12-port, T568A/B	**AX100224**
PS5E HD-110 Connector Module Strip, Universal Wiring 12-port, T568B/A	**AX100494**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

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Workstation Outlets
MDVO Multimedia Modules

A0407005 MDVO SC Fiber Module



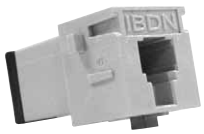
A0649254 SC Duplex Adapter



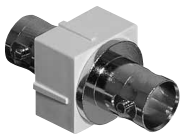
A0407010 MDVO ST Compatible Fiber Module



AX101467 MDVO MTRJ Fiber Module



A0406997 MDVO BNC Coaxial Module



A0406999 MDVO Video F Coaxial Module



MDVO Multimedia Module

MDVO multimedia modules address audio/video and fiber applications. Fiber modules are available for LC Duplex, SC Simplex, ST compatible multimode and MT-RJ multimode & single-mode connections. The SC duplex adapter is a fiber adapter sleeve with flanges that mounts into the SC duplex mounting bezel (included in the MDVO multimedia outlet box). Audio/video modules are available for SVHS, RCA, BNC and video F connections.

Description	Belden Part Number				
	Grey	Almond	White	Black	Ivory
Workstation Outlets					
MDVO Multimedia Module					
LC Duplex, Multimode	**AX102209**	**AX102210**	**AX102211**	**AX102619**	–
LC Duplex, Single-mode	**AX102213**	**AX102214**	**AX102215**	**AX102216**	–
SC Simplex, Multimode	**A0407003**	**A0407004**	**A0407005**	**A0407006**	**AX102596**
SC Duplex Adapter, Multimode	–	**A0649254**	–	–	–
ST Compatible, Multimode	**A0407007**	**A0407008**	**A0407009**	**A0407010**	**AX102597**
MT-RJ, Multimode	–	**AX101467**	–	–	–
MT-RJ, Single-mode, Blue	–	**AX101466**	–	–	–

Description	Belden Part Number				
	Grey Holder	Almond Holder	White Holder	Black Holder	Ivory Holder
Coaxial, BNC	**A0406995**	**A0406996**	**A0406997**	**A0406998**	**AX102598**
Coaxial, Video F	**A0406999**	**A0407000**	**A0407001**	**A0407002**	**AX102599**
RCA, feedthrough, White insert	**AX101823**	**AX101824**	**AX101825**	**AX101826**	**AX102601**
RCA, feedthrough, Yellow insert	**AX101827**	**AX101828**	**AX101829**	**AX101830**	**AX102602**
RCA, feedthrough, Red insert	**AX101831**	**AX101832**	**AX101833**	**AX101834**	**AX102603**
RCA, feedthrough, Black insert	**AX101835**	**AX101836**	**AX101837**	**AX101838**	**AX102604**
SVHS, feedthrough	**AX101839**	**AX101840**	**AX101841**	**AX101842**	**AX102605**
3.5 mm Stereo	**AX102624**	**AX102625**	**AX102626**	**AX102627**	**AX102628**

Custom multimedia connectors are also available, please contact customer service for more details.
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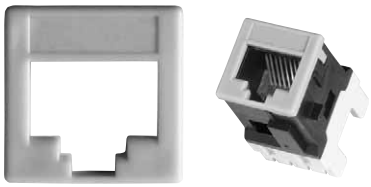
Workstation Outlets

Outlet Accessories

A0405538 MDVO Blank Insert



AX102022 Colored Bezel



AX100196 ID Tab



MDVO Blank Insert

MDVO blank inserts can be used in any MediaFlex outlets, interface plates, MDVO faceplates, adapters or boxes to fill in unused ports.

Colored Bezel

The colored bezels are plastic inserts that fit over the face of GigaFlex and EZ-MDVO modules to modify their color. They are particularly useful in installations where the churn rate is high and color identification of outlets is critical (ex.: segmented network with security levels). They also contribute to simplifying the management of the cabling infrastructure by using only one color of module for Moves, Adds and Changes (MACs).

ID Tab

ID tabs are color-coded identification caps that can be inserted over the GigaFlex and EZ-MDVO modules. The ID tabs are available as blank, data or voice coded. They are available in eleven colors to facilitate identification and to match modern office decor. The flexible identification cap also acts as a protective cover eliminating exposure to dust and other contaminants when the module is not in use.

Description	Belden Part Number
Workstation Outlets	
MDVO Blank Insert	
Grey	**A0405536**
Almond	**A0405537**
White	**A0405538**
Black	**A0405539**
Electric White	**AX102607**
Ivory	**AX102600**
Colored Bezel	
Grey	**AX102014**
Almond	**AX102015**
White	**AX102016**
Black	**AX102017**
Orange	**AX102018**
Red	**AX102019**
Yellow	**AX102020**
Green	**AX102021**
Blue	**AX102022**
Purple	**AX102023**
Brown	**AX102024**
Ivory	**AX102606**

Description	Belden Part Number		
	Blank	Data	Voice
ID Tab			
Grey	**AX100182**	**AX100193**	**AX100204**
Almond	**AX100183**	**AX100194**	**AX100205**
White	**AX100184**	**AX100195**	**AX100206**
Black	**AX100185**	**AX100196**	**AX100207**
Orange	**AX100186**	**AX100197**	**AX100208**
Red	**AX100187**	**AX100198**	**AX100209**
Yellow	**AX100188**	**AX100199**	**AX100210**
Green	**AX100189**	**AX100200**	**AX100211**
Blue	**AX100190**	**AX100201**	**AX100212**
Purple	**AX100191**	**AX100202**	**AX100213**
Brown	**AX100192**	**AX100203**	**AX100214**

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Workstation Outlets
Tools

AX100749 GigaFlex Connecting Tool



GigaFlex Connecting Tool

The GigaFlex connecting tool is a no-impact connecting tool used to terminate cables, pigtails or cross-connect wires on any GigaFlex module or 110 product. The GigaFlex tool is a spring-activated hand tool. A single forward movement will seat the wire into the IDC clip and cut off the excess wire. The tool will terminate 22, 24 and 26 AWG plastic insulated solid copper conductors.

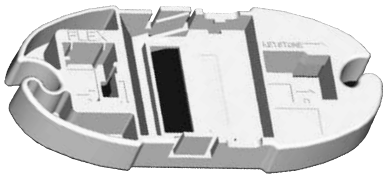
1797B Cable Preparation Tool



Bonded-Pair Cable Preparation Tool

The bonded-pair cable preparation tool makes it faster and easier to prepare cables for connector termination. This tool is ideal for use with Belden's DataTwist® 350, MediaTwist®, and DataTwist® 600e bonded-pair cables, providing special features that help separate twisted pairs. It can also be used to prepare any non-bonded-pair cable for installation.

AX101852 Termination Station



Termination Station

The termination station is an ergonomically designed holder that provides stability to the GigaFlex module during the termination process. The station has pockets with locking features that steadily holds either MDVO-style or Keystone-style GigaFlex modules or MediaFlex Inserts during pair placement and wire termination. Cable retainers on each end of the station will secure and hold cables during the pair placements process. The flat bottom surface will provide the required stability to safely terminate the modules. The tool is made of very durable plastic and its low profile makes it an easy tool to use and carry.

Outlet Release Tool

The outlet release tool is a very convenient tool for servicing the MediaFlex and interface outlets. Its bent tip allows for easy front removal of MediaFlex inserts, especially when used in angled entry plates. It is also very useful to extract GigaFlex modules from miscellaneous mounting hardware and to remove the protective cap for GigaFlex module re-termination.

AX101185 Outlet Release Tool



Description	Belden Part Number
Workstation Outlets	
Tools	
GigaFlex Connecting Tool	**AX100749**
Bonded-Pair Cable Preparation Tool	**1797B**
Termination Station	**AX101852**
Outlet Release Tool	**AX101185**

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Modular Cords

Belden IBDN System 4800LX and 2400 Modular Cords
Enhanced Category 6

AX350061 GigaFlex PS6+ Modular Cord



GigaFlex PS6+ Modular Cord

The GigaFlex PS6+ modular cords are 4-pair 23 AWG UTP modular cords designed for use with the Belden IBDN systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ modular cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ modular cord's patented design, with a very small footprint, makes them fully compatible with any of the highest density hubs with RJ45 jack connections.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Belden IBDN System 2400, Modular Cords*						
GigaFlex PS6+ Modular Cord, LSZH 4-pair, 23 AWG solid, T568B - T568B						
0.5 m (1.6 ft.)	**AX102356**	**AX102350**	**AX102392**	**AX102544**	**AX102550**	**AX102556**
1.0 m (3.3 ft.)	**AX102357**	**AX102351**	**AX102393**	**AX102545**	**AX102551**	**AX102557**
2.0 m (6.5 ft.)	**AX102358**	**AX102352**	**AX102394**	**AX102546**	**AX102552**	**AX102558**
3.0 m (10 ft.)	**AX102359**	**AX102353**	**AX102395**	**AX102547**	**AX102553**	**AX102559**
5.0 m (16.4 ft.)	**AX102360**	**AX102354**	**AX102396**	**AX102548**	**AX102554**	**AX102560**
10.0 m (33 ft.)	**AX102361**	**AX102355**	**AX102397**	**AX102549**	**AX102555**	**AX102561**

Description	Belden Part Number		
	Purple	White	Grey
Belden IBDN System 2400, Modular Cords*			
GigaFlex PS6+ Modular Cord, LSZH 4-pair, 23 AWG solid, T568B - T568B			
6 m (20 ft.)	**AC301311**	**–**	**–**
10 m (33 ft.)	**AC300656**	**–**	**–**
15 m (50 ft.)	**AC301215**	**–**	**AC301325**

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Modular Cords

Belden IBDN System 4800LX and 2400 Modular Cords
Enhanced Category 6

AX350061 GigaFlex PS6+ Modular Cord



GigaFlex PS6+ Modular Cord

The GigaFlex PS6+ modular cords are 4-pair 23 AWG UTP modular cords designed for use with the Belden IBDN systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ modular cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ modular cord's patented design, with a very small footprint, makes them fully compatible with any of the highest density hubs with RJ45 jack connections.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Modular Cords						
GigaFlex PS6+ Modular Cord, CMR 4-pair, 23 AWG solid, T568A - T568A						
0.6 m (2 ft.)	AX350037	AX350043	AX350049	AX350055	AX350061	AX350067
1.2 m (4 ft.)	AX350038	AX350044	AX350050	AX350056	AX350062	AX350068
2.1 m (7 ft.)	AX350039	AX350045	AX350051	AX350057	AX350063	AX350069
3.0 m (10 ft.)	AX350040	AX350046	AX350052	AX350058	AX350064	AX350070
4.6 m (15 ft.)	AX350041	AX350047	AX350053	AX350059	AX350065	AX350071
7.6 m (25 ft.)	AX350042	AX350048	AX350054	AX350060	AX350066	AX350072
CMR 4-pair, 23 AWG solid, T568A/B - open						
4.6 m (15 ft.)	–	–	AX350160	–	–	–
7.6 m (25 ft.)	–	–	AX350161	–	–	–
10.6 m (35 ft.)	–	–	AX350162	–	–	–
15.0 m (50 ft.)	–	–	AX350163	–	–	–

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

AX380014 GigaFlex PS6+ Bonded Modular Cord



GigaFlex PS6+ Bonded Modular Cords

The GigaFlex PS6+ bonded modular cords are 4-pair 24 AWG bonded-pair UTP modular cords designed for use with the Belden IBDN systems 2400 and 4800LX, providing channel bandwidths of 250 MHz and 300 MHz, respectively. The GigaFlex PS6+ bonded modular cords have been designed to provide a mated-connection performance that exceeds the Category 6 requirements.

The GigaFlex PS6+ bonded modular cord's patented design, with a very small footprint, makes them fully compatible with the highest density hubs, with any RJ45 jack connections. The special cord design offers increased stability in crosstalk and impedance performance to support the many moves, adds and changes performed in the lifetime of the system.

Description	Belden Part Number			
	Blue	Grey	White	Yellow
Modular Cords				
GigaFlex PS6+ Bonded Mod. Cord, CMR, 4-pair, Bonded 24 AWG Solid, T568A - T568A				
1.2 m (4 ft.)	AX380014	AX380026	AX380050	AX380056
2.1 m (7 ft.)	AX380015	AX380027	AX380051	AX380057
3.0 m (10 ft.)	AX380016	AX380028	AX380052	AX380058
4.6 m (15 ft.)	AX380017	AX380029	AX380053	AX380059
7.6 m (25 ft.)	AX380018	AX380030	AX380054	AX380060

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Modular Cords

GigaFlex PS5e Modular Cords and GigaFlex PS5e VoIP Cords Category 5e

AX102344 GigaFlex PS5e Modular Cord



GigaFlex PS5e Modular Cords

The GigaFlex PS5e modular cords are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN Plus cabling system and the Belden IBDN system 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively.

The GigaFlex PS5e modular cord's patented design features a very small footprint, making them fully compatible with the highest density hubs which use RJ45 jack connections. The GigaFlex PS5e modular cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Belden IBDN System 1200, Modular Cords						
GigaFlex PS5e Modular Cord, LSZH 4-pair, 24 AWG stranded, T568B - T568B						
0.5 m (1.6 ft.)	AX102344	AX102338	AX102386	AX102526	AX102532	AX102538
1.0 m (3.3 ft.)	AX102345	AX102339	AX102387	AX102527	AX102533	AX102539
2.0 m (6.5 ft.)	AX102346	AX102340	AX102388	AX102528	AX102534	AX102540
3.0 m (10 ft.)	AX102347	AX102341	AX102389	AX102529	AX102535	AX102541
5.0 m (16.4 ft.)	AX102348	AX102342	AX102390	AX102530	AX102536	AX102542
10.0 m (33 ft.)	AX102349	AX102343	AX102391	AX102531	AX102537	AX102543

These products are in the process of being assessed for RoHS compliance.
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AX350013 GigaFlex PS5e Modular Cord



GigaFlex PS5e Modular Cords

The GigaFlex PS5e modular cords are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN plus cabling system and the Belden IBDN system 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively.

The GigaFlex PS5e modular cord's patented design features a very small footprint, making them fully compatible with the highest density hubs which use RJ45 jack connections. The GigaFlex PS5e modular cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Modular Cords						
GigaFlex PS5e Mod. Cord, CMR 4-pair, 24 AWG stranded, T568A - T568A						
0.6 m (2 ft.)	AX350001	AX350007	AX350013	AX350019	AX350025	AX350031
1.2 m (4 ft.)	AX350002	AX350008	AX350014	AX350020	AX350026	AX350032
2.1 m (7 ft.)	AX350003	AX350009	AX350015	AX350021	AX350027	AX350033
3.0 m (10 ft.)	AX350004	AX350010	AX350016	AX350022	AX350028	AX350034
4.6 m (15 ft.)	AX350005	AX350011	AX350017	AX350023	AX350029	AX350035
7.6 m (25 ft.)	AX350006	AX350012	AX350018	AX350024	AX350030	AX350036
GigaFlex PS5e Mod. Cord, CMR 4-pair, 24 AWG solid, T568A to open						
4.6 m (15 ft.)	–	–	AX350149	–	–	–
7.6 m (25 ft.)	–	–	AX350093	–	–	–

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Modular Cords

GigaFlex PS5e VoIP Cords Category 5e

AX330015 GigaFlex PS5E VoIP Modular Cord





VoIP Modular Cord features very short body RJ 45 phone connector on other end

GigaFlex PS5E VoIP Modular Cords

The GigaFlex PS5E VoIP modular cords are 4-pair 24 AWG UTP modular cords that are designed for use with the Belden IBDN plus cabling system and the Belden IBDN system 1200 providing channel bandwidths of 100 MHz and 160 MHz, respectively. The GigaFlex PS5E VoIP modular cord is designed for use with VoIP phones that can not accommodate standard booted patch cords which would make the phone unstable or difficult to wall mount. The GigaFlex PS5E VoIP modular cord is designed with a regular booted RJ 45 plug on one end (at the wall) and a bootless very short body RJ 45 plug on the other end (at the phone). The GigaFlex PS5E VoIP modular cords meet all the enhanced Category 5 modular cord requirements as per the Category 5e standard, and are completely backward compatible with Category 5 jacks. The GigaFlex PS5E VoIP modular cords have been designed to provide a mated-connection performance that exceeds the Category 5e standard. The GigaFlex PS5E VoIP modular cord product line encompass CMR-rated cords.

Description	Belden Part Number					
	Blue	White	Grey	Green	Red	Yellow
Modular Cords						
GigaFlex PS5E VoIP Mod.Cord, CMR, 4-pair, 24 AWG stranded, T568A - T568A						
0.6 m (2 ft.)	**AX330013**	**AX330049**	**AX330025**	**AX330019**	**AX330043**	**AX330055**
1.2 m (4 ft.)	**AX330014**	**AX330050**	**AX330026**	**AX330020**	**AX330044**	**AX330056**
2.1 m (7 ft.)	**AX330015**	**AX330051**	**AX330027**	**AX330021**	**AX330045**	**AX330057**
3.0 m (10 ft.)	**AX330016**	**AX330052**	**AX330028**	**AX330022**	**AX330046**	**AX330058**
4.6 m (15 ft.)	**AX330017**	**AX330053**	**AX330029**	**AX330023**	**AX330047**	**AX330059**
7.6 m (25 ft.)	**AX330018**	**AX330054**	**AX330030**	**AX330024**	**AX330048**	**AX330060**

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Network Connectivity Products

Media Converters, Transceivers & Hubs and Network Tester

Media Converters



AX-1912 Media Converter Rack



AX050, 70 and 80 Transceivers and AX-509 Ethernet Hub



AX-110BT Realtime 10/100 Base-TX Ethernet Network Test Unit



Media Converters for Ethernet and Fast Ethernet

Media converters enable the connection of dissimilar network cabling types, while maintaining the same network speed. A legacy Thinnet segment can be connected to a 10Base-T Hub or switch port with a AX-200 converter or, link two different 10Base-T networks together over a multimode fiber optic link with a pair of AX-270s. Connect a legacy Thinnet segment over fiber with the AX-280 converter. The AX-5270 can be used for interbuilding links or attached to a fiber backbone.

Transceivers and Ethernet Hubs

The AX-50, 70 and 80 transceivers enable the connection of a legacy AUI port to 10Base-T, Thinnet, or fiber optic media. The transceiver is powered from the host and requires no external power supply.

The AX-509 Ethernet Hub has an AUI port which accepts UTP, Fiber Optic or BNC transceivers. Specified for use by many U.S. Government Agencies. Includes a 110v/12v power supply.

Realtime 10/100 Base-TX Ethernet Network Test Unit

The AX-110BT Realtime 10/100 Base-TX ethernet network test unit is a cost effective way to quickly determine a network's operating condition. Plug the unit's patch cord into the tester then into any open RJ-45 jack in an office, cubicle or conference room. Immediately see if the jack is a live network node capable of either 100 Mb/s or 10 Mb/s. Next check patch cord continuity and polarity. Connect the downlink to a PC to check NIC card link, speed and full or half duplex capabilities. Connect the uplink to a hub or switch port to verify link and speed.

Description	Belden Part Number
Network Connectivity Products	
Media Converter	
10Base-T/10Base2, RJ-45 to BNC	**AX-200**
10Base-T/10Base-FL, RJ-45 to ST-Compatible fiber connectors	**AX-270**
10Base2/10Base-FL, BNC to ST-Compatible fiber connectors	**AX-280**
100Base-TX/100Base-FX, SC-Compatible fiber connectors	**AX-5270SC**
100Base-TX/100Base-FX, ST-Compatible fiber connectors	**AX-5270ST**
Media Converter Rack	
Holds up to 12 converters and multi lead power supplies, 19″ (0.48 m) rack-mount ready	**AX-1912-MCR**
Power Supply, 4-lead 110v/12v, powers up to 4 converters	**AX-270P4U**
Power Supply, 8-lead 110v/12v, powers up to 8 converters	**AX-270P8U**
Transceivers and Ethernet Hubs	
UTP Transceiver, 10Base-T, AUI to RJ-45, side port	**AX-50**
UTP Transceiver, 10Base-T, AUI to RJ-45, rear port	**AX-50R**
Fiber Transceiver, 10Base-FL, AUI to ST-Compatible	**AX-70**
Thinnet Transceiver, 10Base2, AUI to BNC	**AX-80**
Ethernet Hub with 8 RJ-45 10Base-T ports and 1 AUI port	**AX-509**
Network Tester	
Realtime 10/100 Base-TX Ethernet Network Test Unit	**AX-110BT**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

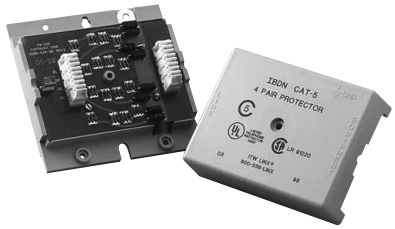
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Line Protection and Bonding & Grounding

IDC 4-pair Protector Modules, PVCI Ground Wires, Bond Clamp and Accessories

AX100826 Cat-5e, 4-pair Protector



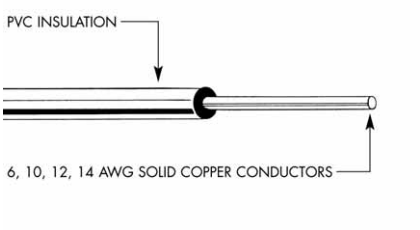
IDC 4-pair Protector Module

The IDC 4-pair protector module is a high-performance Category 5e, solid-state protection for local area networks. Protects sensitive electronic workstations, network equipment, and cables from damage caused by transient voltage surges. Provides 100% protection with easy-to-install BIX or 110 IDC termination in a convenient 4-pair module.

Description	Belden Part Number
Line Protection	
IDC 4-pair Protector Module	
IDC Protector Module, Category 5e, 4-pair, BIX Protector, 1/pack	**AX100826**
IDC Protector Module, Category 5e, 4-pair, 110 Protector, 1/pack	**AX100827**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

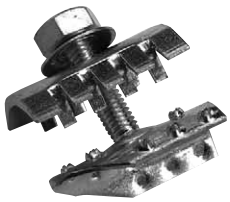
PVCI Ground Wire



PVCI Ground Wire

PVCI ground wire consists of 6, 10, 12 and 14 AWG solid annealed copper conductors individually insulated with polyvinyl chloride compound.

X9905753 Bond Clamp



Bond Clamp

The bond clamps are used to attach the cable shield to the ground via ground wire. They are recommended for use with riser cables and outside plant cables. The bond clamps consist of heavy plates and a securing nut with an integral spring washer. The plates are curved to conform to the contours of the cable. The upper plate has "teeth" which penetrate the polyethylene cable jacket and align with the perforations in the lower plate. The lower plate has burred perforations that penetrate into the metallic sheath of the cable.

Accessories

A six-position ground bracket is used to terminate and ground up to 5 cable sheaths. The sixth position on the bracket is used to provide the ground return to the distribution terminal and is not available to ground a cable. Two ground wire clips on each side of the ground wire are required to ground one cable.

AX100226 Six-position Ground Bracket



X9908359 6 AWG Ground Wire Clip



Description	Belden Part Number
Bonding & Grounding	
PVCI Ground Wire	
PVCI Ground Wire, 6 AWG, Black, 75 m (246 ft.), Coil	**22214348**
PVCI Ground Wire, 10 AWG, Black, 50 m (164 ft.), Coil	**22214500**
PVCI Ground Wire, 12 AWG, Almond, 50 m (164 ft.), Coil	**22214700**
PVCI Ground Wire, 14 AWG, Olive Grey, 75 m (246 ft.), Coil	**22214900**
Bond Clamp	
Bond Clamp, QCF1A 19 mm (0.75″) cable and above	**X9905753**
Bond Clamp, QCF2A 19 mm (0.75″) cable and below	**X9905754**
Accessories	
Bond Clamp Accessories, Six-position Ground Bracket	**AX100226**
Bond Clamp Accessories, 6 AWG Ground Wire Clip	**X9908359**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

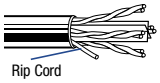
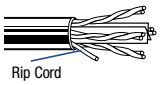
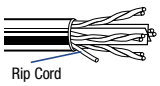
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DataTwist® 600e U/UTP Cables

TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6 Bonded-Pair Cables

Certified System 4800LX

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Patented E-Spline Center Member • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, Blue, Black, White and Grey)																			
 Rip Cord 4-Pair	**7851A**	NEC:	1000	305	37.9	17.2	0.57 mm	0.044	1.13	**Bonded-Pair**	0.227	5.77	1	1.9	80.3	78.5	70.8	100 ± 12	20.0
		CMR	A-1000	A-305	47.0	21.3	23 AWG			Unshielded	x	x	10	5.7	65.3	59.6	50.8	100 ± 12	25.0
		CEC:					Solid BC			U/UTP	0.315	8.00	31.25	10.2	57.9	47.7	40.9	100 ± 15	25.0
		CMR											62.5	14.7	53.4	38.7	34.9	100 ± 15	25.0
													100	18.9	50.3	31.4	30.8	100 ± 15	25.0
													155	23.9	47.5	23.5	27.0	100 ± 15	22.8
													200	27.5	45.8	18.3	24.8	100 ± 15	21.7
													250	31.2	44.3	13.2	22.8	100 ± 20	20.5
													350	37.7	40.2	4.5	19.9	100 ± 22	19.8
													400	40.6	39.3	0.6	18.8	100 ± 22	19.5
													500	46.2	37.8	> 0*	16.8	100 ± 22	18.4
													550	48.8	37.2	–	16.0	100 ± 22	18.0
													600	51.4	36.6	–	15.2	100 ± 22	17.6
		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2-1, Category 6 U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1 Jacket sequentially marked at 0.6 m intervals. Features descending length marking.									
Polyolefin Insulation • Grey Haloarrest® Jacket																			
 Rip Cord 4-Pair	**7851NH**		1000	305	39.0	17.7	0.57 mm	0.044	1.13	**Bonded-Pair**	0.241	6.12							see above
			A-1000	A-305	48.1	21.8	23 AWG			Unshielded	x	x							
							Solid BC			U/UTP	0.329	8.36							
		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2-1, Category 6 U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1 Jacket sequentially marked at 1 m intervals. Features descending length marking.									
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Blue, Black, White and Grey)																			
 Rip Cord 4-Pair	**7852A**	NEC:	1000	305	39.9	18.1	0.57 mm	0.043	1.08	**Bonded-Pair**	0.218	5.54							see above
		CMP	A-1000	A-305	48.9	22.2	23 AWG			Unshielded	x	x							
		CEC:					Solid BC			U/UTP	0.290	7.37							
		CMP																	
		Color Code: see chart below A-305 m put-up not available in Red.								Third party verified to TIA/EIA-568-B.2-1, Category 6 U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1 Jacket sequentially marked at 0.6 m intervals. Features descending length marking.									

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio •
ELFEXT = Equal Level Far-end Crosstalk •
NEXT = Near-end Crosstalk • PSUM = Power Sum •
RL = Return Loss • DCR = DC resistance
* PSUM ACR > 0 is guaranteed to 460 MHz.

Teflon® is a DuPont trademark.

Not RoHS compliant at time of printing.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

DataTwist 600e: Beyond Category 6

Belden DataTwist 600e data cable is a revolutionary UTP cable engineered specifically to perform well beyond Category 6 standards. While Category 6 cable is specified only to 250 MHz, DataTwist 600e is the only Cat 6 UTP cable in the industry fully characterized with guaranteed performance to 600 MHz. So users have far more headroom to compensate for unforeseen factors that can inhibit the performance of a cabling system today…and protection of their technology investment for the future.

Handy Cable Preparation Tool Speeds Installation of Bonded-Pair Cables

You know the high-performance benefits of using data cables featuring Belden's unique Bonded-Pair technology. The Belden cable preparation tool (1797B) now makes it faster and easier than ever to prepare cables for connector termination providing special features that help separate twisted pairs. The cable preparation tool is packed with every spool of DataTwist® 600e. See page 15.37 for more information.



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GigaFlex 4800LX Cables Series

ANSI/TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6 Non-Bonded-Pair Cables

Certified System 4800LX

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Central Cross Web Filler • Rip Cord																			
Polyolefin Insulation • PVC Jacket																			
White-Reel	**24586385**	NEC:	1000	305	29.1	13.2	0.57 mm	0.044	1.11	Non-	0.245	6.22	0.772	1.7	80.0	78.3	74.0	100 ± 12	–
Blue-Reel	**24586985**	CMR					23 AWG			Bonded-Pair			1	1.8	78.3	76.5	71.8	100 ± 12	20.0
		CEC:					Solid BC			Unshielded			4	3.4	69.3	65.9	59.7	100 ± 12	23.0
		CMR								U/UTP			8	4.8	64.8	60.0	53.7	100 ± 12	25.0
													10	5.3	63.3	58.0	51.8	100 ± 12	25.0
													16	6.8	60.3	53.5	47.7	100 ± 12	25.0
													20	7.6	58.8	51.2	45.7	100 ± 12	25.0
													25	8.5	57.3	48.8	43.8	100 ± 15	24.6
													31.25	9.6	55.9	46.3	41.9	100 ± 15	24.2
													62.5	13.8	51.4	37.6	35.8	100 ± 15	23.0
													100	17.8	48.3	30.5	31.8	100 ± 15	22.1
													200	26.2	43.8	17.6	25.7	100 ± 15	20.9
													250	29.7	42.3	12.6	23.8	100 ± 20	20.5
													300	33.0	41.2	8.2	22.2	100 ± 20	20.2
													350	36.1	40.2	4.1	20.9	100 ± 22	19.9
													400	39.0	39.3	0.3	19.7	100 ± 22	19.7
													450*	41.8	38.5	- 3.3	18.7	100 ± 22	19.5
													500*	44.5	37.8	- 6.7	17.8	100 ± 22	19.3
													550*	47.1	37.2	- 9.9	16.9	100 ± 22	19.1
Rip Cord																			
4-Pair			Color Code: see chart below							Third party verified to TIA/EIA-568-B.2-1, Category 6 Jacket sequentially market at 0.6 m intervals. Features descending length marking.									
Polyolefin Insulation • FRNC/LSNH Polymer Alloy																			
Violet-Reel	**24588085**	NEC:	1000	305	31.1	14.1	0.57 mm	0.044	1.11	Non-	0.240	6.10							see above
		CMR					23 AWG			Bonded-Pair									
		CEC:					Solid BC			Unshielded									
		CMR								U/UTP									
Rip Cord																			
4-Pair			Color Code: see chart below							Third party verified to TIA/EIA-568-B.2-1, Category 6 Jacket sequentially market at 0.6 m intervals. Features descending length marking.									
Plenum • FEP Insulation • FRNC/LSNH Polymer Alloy																			
White-Reel	**24587385**	NEC:	1000	305	30.6	13.9	0.57 mm	0.043	1.10	Non-	0.229	5.81							see above
Blue-Reel	**24587985**	CMP					23 AWG			Bonded-Pair									
		CEC:					Solid BC			Unshielded									
		CMP								U/UTP									
Rip Cord																			
4-Pair			Color Code: see chart below							Third party verified to TIA/EIA-568-B.2-1, Category 6 Jacket sequentially market at 0.6 m intervals. Features descending length marking.									

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Values provided for information only.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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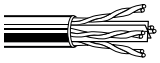
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Category 6 U/UTP Cables

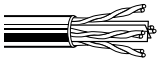
TIA/EIA-568-B.2, Category 6,
Bonded-Pair Cables

Certified System 2400

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Twisted Pair																			
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	7812E	B-328	B-100	9.5	4.3	0.57 mm	0.042	1.06	**Bonded-Pair**	0.256	6.50	1	2.1	72.0	70.2	65.0	100 ± 15	20.0
		U-1000	U-305	28.9	13.1	23 AWG			Unshielded			4	3.8	63.0	59.4	53.0	100 ± 15	23.0
		1640	500	47.4	21.5	Solid BC			U/UTP			10	6.0	57.0	51.3	45.0	100 ± 15	25.0
		3280	1000	94.8	43.0							16	7.6	54.0	46.6	41.0	100 ± 15	25.0
												20	8.5	53.0	44.3	39.0	100 ± 15	25.0
												25	9.6	51.0	41.8	37.0	100 ± 15	24.3
												31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
												62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
												100	19.9	42.0	22.4	25.0	100 ± 15	20.1
												155	25.3	39.0	14.1	21.0	100 ± 22	18.8
												200	29.1	38.0	8.6	19.0	100 ± 22	18.0
												250	33.0	36.0	3.3	17.0	100 ± 22	17.3
		Color Code: see chart below								Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2									
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	7812ENH	B-328	B-100	9.5	4.3	0.57 mm	0.042	1.06	**Bonded-Pair**	0.256	6.50							see above	
		1000	305	28.9	13.1	23 AWG			Unshielded										
		1640	500	47.4	21.5	Solid BC			U/UTP										
		Color Code: see chart below								Burning Energy: 535 kJ/m Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2									



4-Pair



4-Pair

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)



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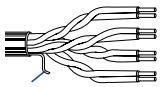
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GigaFlex 2400 Cables Series

ANSI/TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6 Non-Bonded-Pair Cables

Certified System 2400

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Polyolefin Insulation • PVC Jacket																			
White †	**24566315**	NEC:	1000	305	26.0	11.8	0.51 mm	0.042	1.06	Non-	0.214	5.44	0.772	1.8	75.0	73.2	70.0	100 ± 15	19.7
Blue †	**24566915**	CMR					24 AWG			Bonded-Pair			1	2.0	73.3	71.3	67.8	100 ± 15	20.0
White	**24566345**	CEC:					Solid BC			Unshielded			4	3.7	64.3	60.6	55.8	100 ± 15	23.0
Blue	**24566945**	CMR								U/UTP			8	5.2	59.8	54.6	49.7	100 ± 15	24.5
													10	5.8	58.3	52.5	47.8	100 ± 15	25.0
													16	7.4	55.2	47.9	43.7	100 ± 15	25.0
													20	8.3	53.8	45.5	41.8	100 ± 15	25.0
													25	9.3	52.3	43.1	39.8	100 ± 15	24.3
													31.25	10.4	50.9	40.5	37.9	100 ± 15	23.6
													62.5	15.0	46.4	31.4	31.9	100 ± 15	21.5
													100	19.3	43.3	24.0	27.8	100 ± 15	20.1
													200	28.3	38.8	10.5	21.8	100 ± 15	18.0
													250	32.1	37.3	5.3	19.8	100 ± 32	17.3
													300*	35.6	36.1	0.5	18.3	100 ± 32	16.8
													350*	38.9	35.1	- 3.7	16.9	100 ± 32	16.3
													400*	42.0	34.3	- 7.7	15.8	100 ± 32	15.9
													450*	45.0	33.5	- 11.5	14.7	100 ± 32	15.5



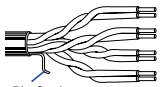
Rip Cord

4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2-1, Category 6
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Polyolefin Insulation • FRNC/LSNH Polymer Alloy																			
Violet-Reel	**24568005**	NEC:	1000	305	28.0	12.7	0.51 mm	0.043	1.08	Non-	0.214	5.44							see above
Violet-Box	**24568015**	CMR	1000	305	28.0	12.7	24 AWG			Bonded-Pair									
White-Box	**24568315**	CEC:	1000	305	28.0	12.7	Solid BC			Unshielded									
White-Reel	**24568331**	CMR	1640	500	45.9	20.8				U/UTP									



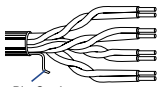
Rip Cord

4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2-1, Category 6
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Plenum • FEP Insulation • Low-Smoke PVC Jacket																			
White †	**24567315**	NEC:	1000	305	24.0	10.9	0.51 mm	0.042	1.06	Non-	0.210	5.33							see above
Blue †	**24567915**	CMR					24 AWG			Bonded-Pair									
White	**24567345**	CEC:					Solid BC			Unshielded									
Blue	**24567945**	CMR								U/UTP									



Rip Cord

4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2-1, Category 6
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Values provided for information only.
† Reel-in-Box

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

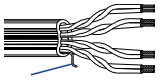
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

MediaTwist® U/UTP Cables

TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6 Bonded-Pair Cables

Certified System 2400

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Blue, Red, Yellow, Orange, Green, Gold, Violet, White, Black and Grey)																			
	1872A	NEC:	1000	305	37.0	16.8	0.57 mm	0.042	1.06	**Bonded-Pair**	0.365	9.27	1	1.9	72.3	70.0	64.8	100 ± 12	20.0
		CMR	A-1000	A-305	37.0	16.8	23 AWG			Unshielded	x	x	4	3.7	63.3	59.0	52.8	100 ± 12	23.0
		CEC:					Solid BC			U/UTP	0.165	4.19	8	5.3	58.8	53.0	46.7	100 ± 12	24.5
		CMR											10	5.9	57.3	51.0	44.8	100 ± 12	25.0
													16	7.5	54.3	46.0	40.7	100 ± 12	25.0
													25	9.5	51.4	42.0	36.8	100 ± 15	24.3
													31.25	10.6	49.9	39.0	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.9	100 ± 15	21.5
													100	19.8	42.3	25.0	24.8	100 ± 15	21.0
													155	25.1	39.5	14.0	20.9	100 ± 15	21.0
													200	29.0	37.8	10.0	18.8	100 ± 15	21.0
													250	32.8	36.3	3.0	16.8	100 ± 20	18.0
													300	35.2	35.2	> 0	15.2	100 ± 20	18.0
													350	39.8	34.2	–	13.9	100 ± 22	17.0
													400*	43.0	–	–	–	100 ± 32	14.0
													500*	49.0	–	–	–	100 ± 32	14.0

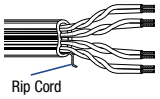


4-Pair

Color Code: see chart below
A-305 m put-up not available in Black.

Third party verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151; 5,734,126; 5,821,467
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Blue, Natural, Grey, Red, Yellow, Orange, Green, Gold, Violet, White and Black)																			
	1874A	NEC:	1000	305	37.0	16.8	0.57 mm	0.039	1.00	**Bonded-Pair**	0.365	9.27							see above
		CMP	A-1000	A-305	37.9	17.2	23 AWG			Unshielded	x	x							
		CEC:					Solid BC			U/UTP	0.165	4.19							
		CMP																	



4-Pair

Color Code: see chart below
A-305 m put-up not available in Black.

Third party verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151; 5,734,126; 5,821,467
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Values provided for information only.

Teflon® is a DuPont trademark.

Not RoHS compliant at time of printing.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)



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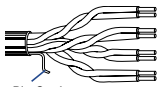
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist® 350 U/UTP Cables

TIA/EIA-568-B.2, Category 5e,
Enhanced Category 5e Bonded-Pair Cables

Certified System 1200

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Red, Orange, White, Black, Yellow, Green, Blue, Violet, Light Grey and Grey)																			
	1700A	NEC:	U-1000	U-305	22.0	10.0	0.51 mm	0.038	0.97	**Bonded-Pair**	0.200	5.08	1	2.0	65.3	63.3	60.8	100 ± 12	20.0
		CM	1000	305	22.0	10.0	24 AWG			Unshielded			4	4.0	56.3	52.3	48.8	100 ± 12	23.0
		CEC:	1640	500	36.2	16.4	Solid BC			U/UTP			8	5.7	51.8	46.1	42.7	100 ± 12	24.5
		CM	3000	914	63.1	28.6							10	6.4	50.3	43.9	40.8	100 ± 12	25.0
			3280	1000	72.3	32.8							16	8.1	47.3	39.1	36.7	100 ± 12	25.0
													25	10.3	44.3	34.1	32.8	100 ± 15	24.3
													31.25	11.6	42.9	31.3	30.9	100 ± 15	23.6
													62.5	16.8	38.4	21.6	24.8	100 ± 15	21.5
													100	21.7	35.3	17.1	20.8	100 ± 15	20.1
													155	27.7	32.5	4.7	16.9	100 ± 18	19.0
													200	32.0	30.8	3.0	14.7	100 ± 18	19.0
													250	36.4	29.3	> 0	12.8	100 ± 20	18.0
													350	44.3	27.2	> 0	9.9	100 ± 22	17.0



4-Pair

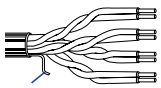
305 m put-up not available in Grey.
914 m put-up available in Red, Blue, White or Light Grey only.
500 m put-up available in Light Grey or Blue only.
1000 m put-up available in Light Grey only.

Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Color Code: see chart below

Polyolefin Insulation • PVC Jacket (Grey and Blue)

	1700E		B-328	B-100	6.1	2.8	0.51 mm	0.038	0.97	**Bonded-Pair**	0.197	5.00							
			U-1000	U-305	18.7	8.5	24 AWG			Unshielded									
			1000	305	18.7	8.5	Solid BC			U/UTP									
			1640	500	30.9	14.0													
			3280	1000	61.7	28.0													



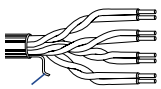
4-Pair

Color Code: see chart below

Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)

	1700ENH	60332-1	B-328	B-100	6.1	2.8	0.51 mm	0.038	0.97	**Bonded-Pair**	0.197	5.00							see above
		CSA FT1	U-1000	U-305	18.7	8.5	24 AWG			Unshielded									
		UL CM	1640	500	30.9	14.0	Solid BC			U/UTP									
		UL ISDI (Vertical Tray)	3280	1000	61.7	28.0													



4-Pair

Color Code: see chart below
305 m and 1000 m put-up available in Grey only.

Burning Energy: 298 kJ/m
Flame Test: IEC 60332-2, UL CM UL ISDI Vertical Tray, CAS FT1
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)



케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

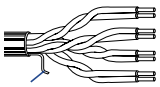
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

GigaFlex 1200 Cables Series

ANSI/TIA/EIA-568-B.2, Category 5e,
Enhanced Category 5e Non-Bonded-Pair Cables

Certified System 1200

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Polyolefin Insulation • PVC Jacket																			
White, Box	**24570166**	NEC:	1000	305	24.0	10.9	0.51 mm	0.035	0.89	Non-	0.186	4.72	0.772	1.8	69.0	67.3	63.0	100 ± 15	–
Blue, Box	**24570161**	CMR					24 AWG			Bonded-Pair			1	2.0	67.3	65.3	60.8	100 ± 15	20.0
White, Reel	**24570460**	CEC:					Solid BC			Unshielded			4	4.0	58.3	54.3	48.7	100 ± 15	23.0
Blue, Reel	**24570452**	CMR								U/UTP			8	5.7	53.8	48.1	42.7	100 ± 15	24.5
													10	6.3	52.3	46.0	40.8	100 ± 15	25.0
													16	8.1	49.3	41.2	36.7	100 ± 15	25.0
													20	9.1	47.8	38.7	34.7	100 ± 15	25.0
													25	10.2	46.3	36.1	32.8	100 ± 15	24.3
													31.25	11.5	44.9	33.4	30.9	100 ± 15	23.6
													62.5	16.7	40.4	23.7	24.8	100 ± 15	21.5
													100	21.6	37.3	15.7	20.8	100 ± 15	20.1
													200*	31.9	32.8	0.9	14.7	100 ± 22	18.0
													250*	36.3	31.3	- 4.9	12.8	100 ± 22	17.3
													300*	40.3	30.2	- 10.2	11.2	100 ± 22	16.8
													350*	44.2	29.2	- 15.0	9.9	100 ± 22	16.3



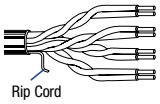
Rip Cord

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially market at 0.6 m intervals. Features descending length marking.

Polyolefin Insulation • FRNC/LSNH Polymer Alloy

Violet, Box	**24570157**	NEC:	1000	305	24.9	11.3	0.51 mm	0.035	0.89	Non-	0.198	5.03							see above
White, Box	**24598301**	CMR	1000	305	24.9	11.3	24 AWG			Bonded-Pair									
White, Reel	**24598331**	CEC:	1640	500	40.8	18.5	Solid BC			Unshielded									
		CMR								U/UTP									



Rip Cord

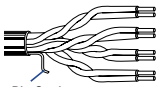
4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

Plenum • Polyolefin/FEP Insulation • Low-Smoke PVC Jacket

White, Box	**24570810**	NEC:	1000	305	22.0	9.98	0.51 mm	0.035	0.90	Non-	0.188	4.78							see above
Blue, Box	**24570800**	CMP					24 AWG			Bonded-Pair									
White, Reel	**24570808**	CEC:					Solid BC			Unshielded									
Blue, Reel	**24570812**	CMP								U/UTP									



Rip Cord

4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Values provided for information only.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist® 6 U/UTP Cables

TIA/EIA-568-B.2, Category 6,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Unbonded-Pair • Solid 0.6 mm Bare Copper • Twisted Pair																			
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	7965E	B-328	B-100	9.5	4.3	0.57 mm	0.040	1.01	Non-Bonded-Pair Unshielded U/UTP	0.244	6.20	1	2.1	72.0	70.2	65.0	100 ± 15	20.0
		U-1000	U-305	28.9	13.1	23 AWG						4	3.8	63.0	59.4	53.0	100 ± 15	23.0
		1000	305	28.9	13.1	Solid BC						10	6.0	57.0	51.3	45.0	100 ± 15	25.0
		1640	500	47.4	21.5							16	7.6	54.0	46.6	41.0	100 ± 15	25.0
		3280	1000	94.8	43.0							20	8.5	53.0	44.3	39.0	100 ± 15	25.0
												25	9.6	51.0	41.8	37.0	100 ± 15	24.3
												31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
												62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
												100	19.9	42.0	22.4	25.0	100 ± 15	20.1
												155	25.3	39.0	14.1	21.0	100 ± 22	18.8
												200	29.1	38.0	8.6	19.0	100 ± 22	18.0
												250	33.0	36.0	3.3	17.0	100 ± 22	17.3
	4-Pair	Color Code: see chart below 305 m, 500 m and 1000 m put-up available in Blue only.								Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2									
Polyolefin Insulation • FRNC/LSNH Jacket (Grey or Blue)																			
	7965ENH	B-328	B-100	9.5	4.3	0.57 mm	0.040	1.01	Non-Bonded-Pair Unshielded U/UTP	0.244	6.20							see above
		1000	305	28.9	13.1	23 AWG												
		1640	500	47.4	21.5	Solid BC												
		3280	1000	94.8	43.0													
	4-Pair	Color Code: see chart below								Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2 Burning Energy: 478 kJ/m									

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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DataTwist® 5e U/UTP Cables

ANSI/TIA/EIA-568-B.2, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair																			
Polyolefin Insulation • PVC Jacket (White, Black, Grey, Blue, Red, Orange, Yellow, Green and Pink)																			
	1583A	NEC:	U-1000	U-305	20.9	9.5	0.51 mm	0.037	0.93	Non-	0.195	4.95	1	2.0	62.3	60.3	60.8	100 ± 15	20.0
		CM	1000	305	20.9	9.5	24 AWG			Bonded-Pair			4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CEC:	1640	500	34.6	15.7	Solid BC			Unshielded			10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CM	3000	914	63.1	28.6				U/UTP			16	8.2	44.3	36.0	36.7	100 ± 15	25.0
													31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	19.0	24.9	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1
													200	32.0	27.8	1.0	14.7	100 ± 25	15.0
Rip Cord																			
4-Pair		Color Code: see chart below 500 m put-up available in Dark Grey or Blue only. 914 m put-up available in Dark Grey, White or Blue only.					Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.												
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	1583E		B-328	B-100	6.1	2.8	0.51 mm	0.037	0.93	Non-	0.197	5.00							see above
			U-1000	U-305	18.7	8.5	24 AWG			Bonded-Pair									
			1000	305	18.7	8.5	Solid BC			Unshielded									
			1640	500	30.9	14.0				U/UTP									
			3280	1000	61.7	28.0													
Rip Cord																			
4-Pair		Color Code: see chart below 500 m put-up available in Grey only.					Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2												
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	1583ENH	CSA FT1	B-328	B-100	6.1	2.8	0.51 mm	0.037	0.93	Non-	0.197	5.00							see above
		UL CM	U-1000	U-305	18.7	8.5	24 AWG			Bonded-Pair									
		UL ISDI	1000	305	18.7	8.5	Solid BC			Unshielded									
		(Vertical Tray)	1640	500	30.9	14.0				U/UTP									
			3280	1000	61.7	28.0													
Rip Cord																			
4-Pair		Color Code: see chart below 1000 m put-up available in Grey only.					Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2 Burning Energy: 310 kJ/m												
Polyolefin Insulation • UV Resistant PVC Jacket (Grey, White and Ivory)																			
Indoor/ Outdoor	**1594A**	NEC:	U-1000	U-305	26.0	11.8	0.51 mm	0.034	0.87	Non-	0.220	5.58							see above
		CMR/CMX					24 AWG			Bonded-Pair									
		CEC:					Solid BC			Unshielded									
		CMR/CMX								U/UTP									
Rip Cord																			
4-Pair		Color Code: see chart below					Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.												
Outside Plant • Polyolefin Insulation • Black Gel-Filled Polyethylene Jacket																			
Outdoor	**7997A**		U-1000	U-305	37.9	17.2	0.51 mm	0.041	1.04	Non-	0.251	6.38	1	2.0	68.3	66.3	64.8	100 ± 15	20.0
							24 AWG			Bonded-Pair			4	4.0	59.3	55.3	52.8	100 ± 15	23.0
							Solid BC			Unshielded			10	6.4	53.3	46.9	44.8	100 ± 15	25.0
										U/UTP			16	8.1	50.2	42.1	40.7	100 ± 15	25.0
													31.25	11.4	45.9	34.5	34.9	100 ± 15	23.6
													62.5	16.4	41.4	25.0	28.9	100 ± 15	21.5
													100	21.0	38.3	17.3	24.8	100 ± 15	20.1
													200	30.5	33.8	3.3	18.8	100 ± 22	18.0
Rip Cord																			
4-Pair		Color Code: see chart below					Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.												

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

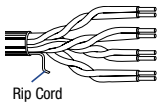
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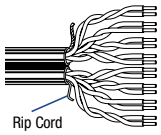
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

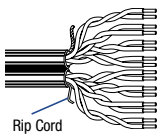
DataTwist® 5e U/UTP Cables

TIA/EIA-568-B.2, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair																			
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Grey, White, Black, Pink, Natural and Blue)																			
	1585A	NEC:	U-1000	U-305	23.1	10.5	0.51 mm	0.035	0.88	Non-	0.198	5.03	1	2.0	62.3	60.3	60.8	100 ± 15	20.0
		CMP	1000	305	24.0	10.9	24 AWG			Bonded-Pair			4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CEC:	3000	915	69.2	31.4	Solid BC			Unshielded			10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CMP FT6								U/UTP			16	8.2	44.3	36.0	36.7	100 ± 15	25.0
													31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	19.0	24.9	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1
													200	32.0	27.8	1.0	14.7	100 ± 25	15.0
		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2, Category 5e									
4-Pair		915 m put-up available in Natural or Blue only.								Jacket sequentially marked at 0.6 m intervals.									
Polyolefin Insulation • Grey PVC Jacket																			
	1667E	CSA FT1	B-328	B-100	12.3	5.6	0.51 mm	0.035	0.89	Non-	0.197	5.00	1	2.1	62.0	60.2	61.0	100 ± 15	20.0
		UL CM	1000	305	37.5	17.0	24 AWG			Bonded-Pair	x	x	4	4.0	53.0	49.3	49.0	100 ± 15	23.0
		UL ISDI	1640	500	61.7	28.0	Solid BC			Unshielded	0.413	10.50	8	5.7	49.0	43.1	43.0	100 ± 15	24.5
		(Vertical Tray)								U/UTP			10	6.3	47.0	41.0	41.0	100 ± 15	25.0
													16	8.0	44.0	36.2	37.0	100 ± 15	25.0
													20	9.0	43.0	33.8	35.0	100 ± 15	23.6
													25	10.1	41.0	31.2	33.0	100 ± 15	24.3
													31.25	11.4	40.0	28.5	31.0	100 ± 15	23.6
													62.5	16.5	35.0	18.8	25.0	100 ± 15	21.5
													100	21.3	32.0	11.0	41.0	100 ± 15	20.1
8-Pair, Twin		Color Code: see chart below								Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2									
Polyolefin Insulation • Grey FRNC/LSNH Jacket																			
	1667ENH	CSA FT1	B-328	B-100	12.3	5.6	0.51 mm	0.035	0.89	Non-	0.197	5.00							see above
		UL CM	1000	305	37.5	17.0	24 AWG			Bonded-Pair	x	x							
		UL ISDI	1640	500	61.7	28.0	Solid BC			Unshielded	0.413	10.50							
		(Vertical Tray)	3280	1000	123.5	56.0				U/UTP									
8-Pair, Twin		Color Code: see chart below								Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2 Burning Energy: 621 kJ/m									







BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Teflon® is a DuPont trademark.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

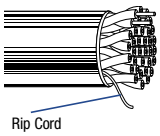
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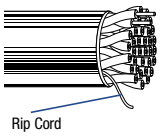
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

IBDN Plus 25-Pair Cat5e U/UTP Cables

TIA/EIA-568-B.2, Category 5e,
Enhanced Category 5e, Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Polyolefin Insulation • Grey PVC Jacket																			
Grey, Reel	**24576125**	NEC: CMP CEC: CMR	1000	305	119.0	54.0	0.51 mm 24 AWG Solid BC	0.041	1.03	Non-Bonded-Pair Unshielded U/UTP	0.490	12.45	0.772	1.8	64.0	63.0	–	100 ± 15	19.4
													1	2.0	62.3	63.8	–	100 ± 15	20.0
													4	4.1	53.3	48.8	–	100 ± 15	23.0
													8	15.8	48.8	42.7	–	100 ± 15	24.5
													10	16.5	47.3	40.8	–	100 ± 15	25.0
													16	8.2	44.2	36.7	–	100 ± 15	25.0
													20	9.3	42.8	34.8	–	100 ± 15	25.0
													25	10.4	41.3	32.8	–	100 ± 15	24.3
													31.25	11.7	39.9	30.9	–	100 ± 15	23.6
													62.5	17.0	35.4	24.9	–	100 ± 15	21.5
													100	22.0	32.3	20.8	–	100 ± 15	20.1
25-Pair		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially market at 0.6 m intervals.									
Polyolefin Insulation • Grey FRNC/LSNH Jacket																			
Grey, Reel	**24577125**	NEC: CMP CEC: CMP	1000	305	127.0	57.6	0.51 mm 24 AWG Solid BC	0.041	1.03	Non-Bonded-Pair Unshielded U/UTP	0.429	10.90							see above
25-Pair		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially market at 0.6 m intervals.									





BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate

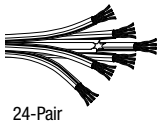
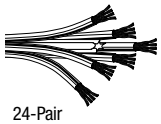
Pair No.	Tip	Ring
16	Yellow	Blue
27	Yellow	Orange
38	Yellow	Green
49	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate

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DataTwist® 350 Composite U/UTP Cables

ANSI/TIA/EIA-568-B.2, Category 5e,
Banana Peel® Jacketless Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord																			
Polyolefin Insulation • PVC Inner Jacket (Light Blue and Grey) **• No Overall Jacket**																			
	1700S6	NEC:	500	152	77.6	35.2	0.51 mm	0.038	0.97	**Bonded-Pair**	0.204	5.18	1	2.0	65.3	63.3	60.8	100 ± 12	20.0
		CMR	1000	305	149.1	67.7	24 AWG			Unshielded			10	6.4	50.3	43.9	40.8	100 ± 12	25.0
		CEC:					Solid BC			U/UTP			16	8.1	47.3	39.1	36.7	100 ± 12	25.0
		CMG											31.25	11.6	42.9	31.3	30.9	100 ± 15	23.6
													62.5	16.8	38.4	21.6	24.9	100 ± 15	21.5
													100	21.7	35.3	17.1	20.8	100 ± 15	20.1
													200	32.0	30.8	3.0	14.7	100 ± 20	19.0
													250	36.4	29.3	> 0	12.8	100 ± 20	18.0
													350	44.3	27.2	–	9.9	100 ± 22	17.0
 24-Pair																			
1700R Bundled 0.60/15.24			Color Code: see chart below							Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e U.S. Patents 5,606,151; 5,734,126; 7,049,523.								
Plenum • FEP Insulation • Flamarrest® Inner Jacket (Blue and Natural) **• No Overall Jacket**																			
	1701S6	NEC:	500	152	81.6	37.0	0.51 mm	0.036	0.91	**Bonded-Pair**	0.195	4.95							see above
		CMP	1000	305	157.1	71.3	24 AWG			Unshielded									
		CEC:					Solid BC			U/UTP									
		CMP																	
 24-Pair																			
1700R Bundled 0.60/15.24			Color Code: see chart below							Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e U.S. Patents 5,606,151; 5,734,126; 7,049,523.								

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

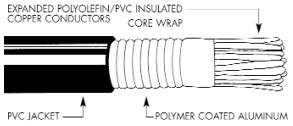
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Data Grade Armored Riser 25-Pair U/UTP Cables

TIA/EIA-568-A, Category 5,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Flame Retardant Polymer Insulation • ALVYAN Sheath • PVC Jacket																			
Grey, Reel	**25500027**	NEC:	8200	2500	205.0	93.0	0.51 mm	0.039	0.98	Non-	0.618	15.70	0.772	1.8	64.0	–	–	100 ± 15	–
Grey, Reel	**25500028**	CMR					24 AWG			Bonded-Pair			1	2.1	62.3	–	–	100 ± 15	23.0
		CEC:					Solid BC			Unshielded			4	4.3	53.3	–	–	100 ± 15	23.0
		CMR								U/UTP			8	5.9	48.8	–	–	100 ± 15	23.0
													10	6.6	47.3	–	–	100 ± 15	23.0
													16	8.2	44.3	–	–	100 ± 15	23.0
													20	9.2	42.8	–	–	100 ± 15	23.0
													25	10.5	41.3	–	–	100 ± 15	22.0
													31.25	11.8	40.9	–	–	100 ± 15	21.0
													62.5	17.1	35.4	–	–	100 ± 15	18.0
													100	22.0	32.3	–	–	100 ± 15	16.0



25-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-A, Category 5
Jacket sequentially market at 0.6 m intervals. Featuring descending length marking.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate

Pair No.	Tip	Ring
16	Yellow	Blue
27	Yellow	Orange
38	Yellow	Green
49	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate

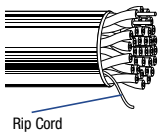
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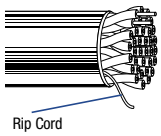
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist® 5 U/UTP Cables

TIA/EIA-568-A, Category 5,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Light Grey and Blue)																			
	1864A	NEC: CMR CEC: CMR FT4	1000	305	144.2	65.4	0.51 mm 24 AWG Solid BC	0.041	1.03	Non-Bonded-Pair Unshielded U/UTP	0.526	13.36	1	2.0	62.3	–	–	100 ± 15	23.0
													10	6.5	47.3	–	–	100 ± 15	23.0
													16	8.2	44.3	–	–	100 ± 15	23.0
													31.25	11.7	39.9	–	–	100 ± 15	21.1
													62.5	17.1	35.4	–	–	100 ± 15	18.0
													100	22.0	32.3	–	–	100 ± 15	16.0
25-Pair			Color Code: see chart below							Third party verified to TIA/EIA-568-A, Category 5 Jacket sequentially marked at 0.6 m intervals.									
Plenum • FEP Teflon® Insulation • FEP Jacket (Blue Tint and White Tint)																			
	1871A	NEC: CMP CEC: CMP	1000	305	131.2	59.5	0.51 mm 24 AWG Solid BC	0.041	1.03	Non-Bonded-Pair Unshielded U/UTP	0.430	10.92							see above
25-Pair			Color Code: see chart below							Third party verified to TIA/EIA-568-A, Category 5 Jacket sequentially marked at 0.6 m intervals.									





BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
Teflon® is a DuPont trademark.

Color Code 1864A

Pair No.	Color
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Grey
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Grey
11	Black & Blue
12	Black & Orange
13	Black & Green
14	Black & Brown
15	Black & Grey
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Grey
21	Purple & Blue
22	Purple & Orange
23	Purple & Green
24	Purple & Brown
25	Purple & Grey

Color Code 1871A

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown
5	White/Grey Stripe, Grey
6	Red/Blue Stripe, Blue
7	Red/Orange Stripe, Orange
8	Red/Green Stripe, Green
9	Red/Brown Stripe, Brown
10	Red/Grey Stripe, Grey
11	Black/Blue Stripe, Blue
12	Black/Orange Stripe, Orange
13	Black/Green Stripe, Green
14	Black/Brown Stripe, Brown
15	Black/Grey Stripe, Grey
16	Yellow/Blue Stripe, Blue
17	Yellow/Orange Stripe, Orange
18	Yellow/Green Stripe, Green
19	Yellow/Brown Stripe, Brown
20	Yellow/Grey Stripe, Grey
21	Purple/Blue Stripe, Blue
22	Purple/Orange Stripe, Orange
23	Purple/Green Stripe, Green
24	Purple/Brown Stripe, Brown
25	Purple/Grey Stripe, Grey

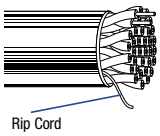
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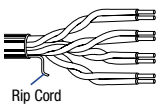
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DataTwist® 3 U/UTP Cables

TIA/EIA-568-A, Category 3,
Non-Bonded-Pair Cables

Description	Part No.	No. of Pairs	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
Cat 3 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Polyolefin Insulation • Grey PVC Jacket																			
		NEC: CMR CEC: CMR					0.51 mm 24 AWG Solid BC	0.035	0.90	Non- Bonded-Pair Unshielded U/UTP			100	70%	19.0	62.3	1 4 10 16	7.8 17.0 30.0 40.0	2.6 5.6 9.7 13.1
	1227A1	2-Pair	U-1000	U-305	13.2	6.0					0.173	4,39							
	1229A1	4-Pair	U-1000	U-305	22.0	10.0					0.197	5.00							
	1232A1	25-Pair	† 1000	305	104.1	47.2					0.399	10.14							
		Color Code: see chart below Third party verified to TIA/EIA-568-A, Category 3 • Jacket sequentially marked at 0.6 m intervals.																	
Plenum • Low-Smoke PVC Insulation • White Low-Smoke PVC Jacket																			
		NEC: CMP CEC: CMP					0.51mm 24 AWG Solid BC	0.038	0.96	Non- Bonded-Pair Unshielded U/UTP			100	61%	19.0	62.3			see above
	1243A2	2-Pair	U-1000	U-305	14.1	6.4					0.170	4.32							
	1245A2	4-Pair	U-1000	U-305	22.9	10.4					0.200	5.08							
		Color Code: see chart below Third party verified to TIA/EIA-568-A, Category 3 • Jacket sequentially marked at 0.6 m intervals.																	





BC = Bare Copper • DCR = DC resistance
† 25-pair NEXT is Power Sum tested.

Not RoHS compliant at time of printing.

Color Code

Pair No.	Color
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Grey Stripe & Grey/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Grey Stripe & Grey/Red Stripe

Color Code

Pair No.	Color
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Grey Stripe & Grey/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Grey Stripe & Grey/Yellow Stripe
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe
25	Purple/Grey Stripe & Grey/Purple Stripe

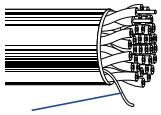
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D-Series Multipair U/UTP Cables

TIA/EIA-568-A, Category 3,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 3 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord																			
Polyolefin Insulation • LSNH Jacket (Grey or Blue)																			
Olive Grey, Reel							0.51 mm 24 AWG Solid BC	0.031	0.80	Non- Bonded-Pair Unshielded U/UTP			1 4 8 10 16	2.6 5.6 8.5 9.7 13.1	41.0 32.0 28.0 26.0 23.0	– – – – –	– – – – –	100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15	12.0 12.0 12.0 12.0 10.0
NN00097	25-Pair	1000 3280	305 1000	107.4 352.0	48.8 160.0						0.417	10.60							
NN00099	50-Pair	1000 3280	305 1000	199.3 653.4	90.6 297.0						0.630	16.00							
NN00101	100-Pair	1575 3280	480 1000	370.4 1214.4	168.4 552.0						0.827	21.00							



Rip Cord

Color Code: see chart below
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA-568-A

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Tip	Ring
1	White/Blue	Blue/White
2	White/Orange	Orange/White
3	White/Green	Green/White
4	White/Brown	Brown/White
5	White/Slate	Slate/White
6	Red/Blue	Blue/Red
7	Red/Orange	Orange/Red
8	Red/Green	Green/Red
9	Red/Brown	Brown/Red
10	Red/Slate	Slate/Red
11	Black/Blue	Blue/Black
12	Black/Orange	Orange/Black
13	Black/Green	Green/Black
14	Black/Brown	Brown/Black
15	Black/Slate	Slate/Black

Pair No.	Tip	Ring
16	Yellow/Blue	Blue/Yellow
27	Yellow/Orange	Orange/Yellow
38	Yellow/Green	Green/Yellow
49	Yellow/Brown	Brown/Yellow
20	Yellow/Slate	Slate/Yellow
21	Violet/Blue	Blue/Violet
22	Violet/Orange	Orange/Violet
23	Violet/Green	Green/Violet
24	Violet/Brown	Brown/Violet
25	Violet/Slate	Slate/Violet

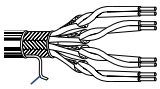
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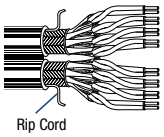
Category 7 S/FTP Cables

EN 50173, ISO/IEC 11801, TIA/EIA-568-TSB 36, Class F, Category 7, Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 7 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Individual **Beldfoil®** + Overall Tinned Copper Braid • Rip Cord																			
Foam Skin Polyolefin Insulation • PVC Jacket (Grey, Blue and Yellow)																			
	1885ENH		B-328	B-100	13.2	6.0	0.57 mm	0.057	1.45	Non-Bonded-Pair Individual Beldfoil® + Overall TC Braid S/FTP	0.315	8.00	1	2.0	75.0	73.0	75.0	100 ± 15	20.0
			1640	500	66.1	30.0	23 AWG						4	3.7	75.0	71.3	75.0	100 ± 15	23.0
			3280	1000	132.3	60.0	Solid BC						10	5.9	75.0	69.1	71.0	100 ± 15	25.0
													16	7.4	75.0	67.6	67.0	100 ± 15	25.0
													20	8.3	75.0	66.7	65.0	100 ± 15	25.0
													31.25	10.4	75.0	64.6	61.0	100 ± 15	23.6
													62.5	14.9	72.0	57.6	55.0	100 ± 15	21.5
													100	19.0	69.0	50.4	51.0	100 ± 15	20.1
													155	24.0	67.0	42.6	47.0	100 ± 22	18.8
													200	27.5	65.0	37.4	45.0	100 ± 22	18.0
													300	34.2	62.0	28.1	41.0	100 ± 25	16.8
													600	50.1	58.0	7.6	35.0	100 ± 25	14.7
													1000	66.9	54.0	–	31.0	100 ± 25	13.1
			Color Code: see chart below 500 m put-up not available in Grey.							Burning Energy: 500 kJ/m									
Foam Skin Polyolefin Insulation • PVC Jacket (Grey, Blue and Yellow)																			
	1887ENH		328	100	26.5	12.0	0.57 mm	0.057	1.45	Non-Bonded-Pair Individual Beldfoil® + Overall TC Braid S/FTP	0.650	16.50							see above
			1640	500	132.3	60.0	23 AWG Solid BC												
			Color Code: see chart below 100 m put-up available in Grey only.							Burning Energy: 1000 kJ/m									



4-Pair



8-Pair, Twin

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

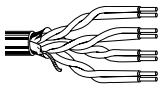
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Category 6 F/UTP Cables

EN 50173, ISO/IEC 11801, Class E, Category 6,
Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 26 AWG Tinned Copper Drain Wire																			
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	7860ENH		B-328	B-100	11.0	5.0	0.57 mm	0.046	1.17	**Bonded-Pair**	0.287	7.30	1	2.1	72.0	70.2	65.0	100 ± 15	20.0
			1640	500	54.9	24.9	23 AWG			Overall			4	3.8	63.0	59.4	53.0	100 ± 15	23.0
			3280	1000	110.2	50.0	Solid BC			Beldfoil®			10	6.0	57.0	51.3	45.0	100 ± 15	25.0
										+ Drain Wire			16	7.6	54.0	46.6	41.0	100 ± 15	25.0
										(26 AWG TC)			20	8.5	53.0	44.3	39.0	100 ± 15	25.0
										F/UTP			25	9.6	51.0	41.8	37.0	100 ± 15	24.3
													31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
													62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
													100	19.9	42.0	22.4	25.0	100 ± 15	20.1
													155	25.3	39.0	14.1	21.0	100 ± 22	18.8
													200	29.1	38.0	8.6	19.0	100 ± 22	18.0
													250	33.0	36.0	3.3	17.0	100 ± 22	17.3
			Color Code: see chart below							Burning Energy: 560 kJ/m									

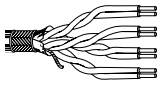


4-Pair

Category 6 SF/UTP Cables

EN 50173, ISO/IEC 11801, Class E, Category 6,
Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 26 AWG TC Drain Wire • Overall TC Braid																			
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	7860ENS		B-328	B-100	12.5	5.7	0.57 mm	0.046	1.17	**Bonded-Pair**	0.295	7.50	1	2.1	72.0	70.2	65.0	100 ± 15	20.0
			1640	500	62.8	28.5	23 AWG			Overall			4	3.8	63.0	59.4	53.0	100 ± 15	23.0
			3280	1000	125.4	56.9	Solid BC			Beldfoil®			10	6.0	57.0	51.3	45.0	100 ± 15	25.0
										+ Drain Wire			16	7.6	54.0	46.6	41.0	100 ± 15	25.0
										(26 AWG TC)			20	8.5	53.0	44.3	39.0	100 ± 15	25.0
										+ TC Braid			25	9.6	51.0	41.8	37.0	100 ± 15	24.3
										SF/UTP			31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
													62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
													100	19.9	42.0	22.4	25.0	100 ± 15	20.1
													155	25.3	39.0	14.1	21.0	100 ± 22	18.8
													200	29.1	38.0	8.6	19.0	100 ± 22	18.0
													250	33.0	36.0	3.3	17.0	100 ± 22	17.3
			Color Code: see chart below							Burning Energy: 560 kJ/m									



4-Pair
Braided 7860E

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)

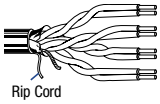
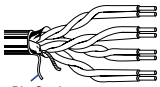
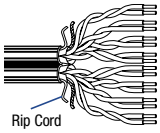
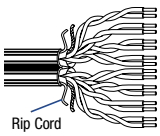


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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

DataTwist® 5e F/UTP Cables

EN 50173, ISO/IEC 11801, Class D, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	1633E		B-328	B-100	9.5	4.3	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.236	6.00	1	2.1	62.0	60.2	61.0	100 ± 15	20.0
			1000	305	28.7	13.0							4	4.0	53.0	49.3	49.0	100 ± 15	23.0
			1640	500	47.4	21.5							8	5.7	49.0	43.1	43.0	100 ± 15	24.5
			3280	1000	94.8	43.0							10	6.3	47.0	41.0	41.0	100 ± 15	25.0
													16	8.0	44.0	36.2	37.0	100 ± 15	25.0
													20	9.0	43.0	33.8	35.0	100 ± 15	25.0
													25	10.1	41.0	31.2	33.0	100 ± 15	24.3
													31.25	11.4	40.0	28.5	31.0	100 ± 15	23.6
													62.5	16.5	35.0	18.8	25.0	100 ± 15	21.5
													100	21.3	32.0	11.0	21.0	100 ± 15	20.1
	 Rip Cord																		
	4-Pair		Color Code: see chart below																
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	1633ENH		B-328	B-100	9.5	4.3	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.236	6.00							see above
			1000	305	28.7	13.0													
			1640	500	47.4	21.5													
			3280	1000	94.8	43.0													
	 Rip Cord																		
	4-Pair		Color Code: see chart below 500 m put-up available in Blue only.							Burning Energy: 464 kJ/m									
Polyolefin Insulation • Grey PVC Jacket																			
	1668E		B-164	B-50	18.9	8.6	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.236 x 0.531	6.00 x 13.50							see above
			1000	305	57.3	26.0													
			1640	500	94.8	43.0													
	 Rip Cord																		
	8-Pair, Twin		Color Code: see chart below																
Polyolefin Insulation • FRNC/LSNH Grey Jacket																			
	1668ENH		1640	500	94.8	43.0	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.236 x 0.531	6.00 x 13.50							see above
	 Rip Cord																		
	8-Pair, Twin		Color Code: see chart below							Burning Energy: 929 kJ/m									

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool



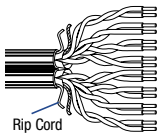
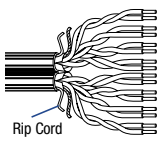
See page 15.37 for details.
(Part No. 1797B)

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DataTwist® 5e SF/UTP Cables

EN 50173, ISO/IEC 11801, Class D, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG TC Drain Wire • Overall TC Braid • Rip Cord																			
Polyolefin Insulation • Grey PVC Jacket																			
	1633ES		B-328	B-100	10.6	4.8	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) + Overall TC Braid SF/UTP	0.248	6.30	1	2.1	62.0	60.2	61.0	100 ± 15	20.0
			1000	305	32.2	14.6							4	4.0	53.0	49.3	49.0	100 ± 15	23.0
			1640	500	52.9	24.0							8	5.7	49.0	43.1	43.0	100 ± 15	24.5
			3280	1000	105.8	48.0							10	6.3	47.0	41.0	41.0	100 ± 15	25.0
													16	8.0	44.0	36.2	37.0	100 ± 15	25.0
													20	9.0	43.0	33.8	35.0	100 ± 15	25.0
													25	10.1	41.0	31.2	33.0	100 ± 15	24.3
													31.25	11.4	40.0	28.5	31.0	100 ± 15	23.6
													62.5	16.5	35.0	18.8	25.0	100 ± 15	21.5
													100	21.3	32.0	11.0	21.0	100 ± 15	20.1
	 Rip Cord																		
	4-Pair Braided 1633E		Color Code: see chart below																
Polyolefin Insulation • Grey FRNC/LSNH Jacket																			
	1633ENS		1640	500	52.9	24.0	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) + Overall TC Braid SF/UTP	0.248	6.30							see above
	 Rip Cord																		
	4-Pair Braided 1633ENH		Color Code: see chart below							Burning Energy: 505 kJ/m									
Polyolefin Insulation • Grey PVC Jacket																			
	1668ES		B-164	B-50	10.6	4.8	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) + Overall TC Braid SF/UTP	0.543	13.80							see above
			1000	305	64.4	29.2													
			1640	500	105.8	48.0													
	 Rip Cord																		
	8-Pair, Twin		Color Code: see chart below																
Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)																			
	1668ENS		1640	500	105.8	48.0	0.51 mm 24 AWG Solid BC	0.041	1.05	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) + Overall TC Braid SF/UTP	0.543	13.80							see above
	 Rip Cord																		
	8-Pair, Twin		Color Code: see chart below							Burning Energy: 1010 kJ/m									

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

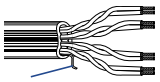
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MediaTwist® and DataTwist® 6 U/UTP Patch Cables

TIA/EIA-568-B.2-1, Category 6,
Enhanced Category 6, Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 6 • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Tinned Copper • RJ-45 Compatible																			
Polyolefin Insulation • PVC Jacket (Yellow, Green, Blue, Violet, Light Grey, Grey, White and Black)																			
MediaTwist®	**1875GB**	NEC:	1000	305	31.1	14.1	0.61 mm	0.041	1.05	**Bonded-Pair**	0.365	9.27	1	1.9	72.3	70.0	64.8	100 ± 12	20.0
		CMR	A-1000	A-305	32.0	14.5	24 AWG			Unshielded	x	x	4	3.7	63.3	59.0	52.8	100 ± 12	23.0
		CEC:					(7x32) TC			U/UTP	0.165	4.19	8	5.3	58.8	53.0	46.7	100 ± 12	24.5
		CMR											10	5.9	57.3	51.0	44.8	100 ± 12	25.0
													16	7.5	54.3	46.0	40.7	100 ± 12	25.0
													25	9.5	51.4	42.0	36.8	100 ± 15	24.3
													31.25	10.6	49.9	39.0	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.9	100 ± 15	21.5
													100	19.8	42.3	25.0	24.8	100 ± 15	21.0
													155	25.1	39.5	14.0	20.9	100 ± 15	21.0
													200	29.0	37.8	10.0	18.8	100 ± 15	21.0
													250	32.8	36.3	3.0	16.8	100 ± 20	18.0
													300	35.2	35.2	> 0	15.2	100 ± 20	18.0
													350	39.8	34.2	–	13.9	100 ± 22	17.0
													400	43.0	–	–	–	100 ± 32	14.0
													500	49.0	–	–	–	100 ± 32	14.0



4-Pair

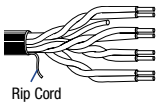
Color Code: see chart below*
305 m put-up not available in Purple.
A-305 m put-up not available in Black.

Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch
U.S. Patents 5,606,151; 5,734,126; 5,763,823 and 5,821,467
Jacket sequentially marked at 0.6 m intervals.

Cat 6 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Central Slit-Film Filler • RJ-45 Compatible

Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, Blue, Violet, White and Black)

DataTwist®	**7883A**	NEC:	1000	305	24.0	10.9	0.51 mm	0.038	0.97	**Bonded-Pair**	0.205	5.21	1	2.4	72.3	69.9	64.8	100 ± 15	20.0
		CM					24 AWG			Unshielded			10	7.1	57.3	50.2	44.8	100 ± 15	25.0
		CEC:					Solid BC			U/UTP			20	10.2	52.8	42.6	38.8	100 ± 15	25.0
		CM											31.25	12.8	49.9	37.1	34.9	100 ± 15	23.6
													62.5	18.5	45.4	26.9	28.9	100 ± 15	21.5
													100	23.8	42.3	18.5	24.8	100 ± 15	20.1
													200	34.8	37.8	3.0	18.8	100 ± 22	18.0
													250	39.4	36.3	–	16.8	100 ± 32	17.3



4-Pair

Color Code: see chart below*

Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch
Jacket sequentially marked at 0.6 m intervals.

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Color rotation available for T568-A or T568-B wiring schemes.

Color Code 1875GB

Pair No.	Color
1	White/Brown Stripe, Brown
2	White/Blue Stripe, Blue
3	White/Green Stripe, Green
4	White/Orange Stripe, Orange

Color Code 7883A

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)



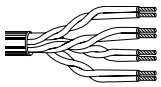
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DataTwist® 350 U/UTP Patch Cables

TIA/EIA-568-B.2, Category 5e,
Enhanced Category 5e, Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Tinned Copper • RJ-45 Compatible																			
Polyolefin Insulation • PVC Jacket (Yellow, Green, Blue, Violet, Light Grey, Grey, White and Black)																			
	1752A	NEC:	U-1000	U-305	24.0	10.9	0.61 mm	0.038	1.00	**Bonded-Pair**	0.220	5.59	1	2.4	65.3	62.9	60.8	100 ± 12	20.0
		CM	1000	305	26.0	11.8	24 AWG			Unshielded			4	4.8	56.3	51.5	48.7	100 ± 12	23.0
		CEC:					(7x32) TC			U/UTP			8	6.8	51.8	45.0	42.7	100 ± 12	24.5
		CM											10	7.7	50.3	42.6	40.8	100 ± 12	25.0
													16	9.7	47.3	37.5	36.7	100 ± 12	25.0
													25	12.4	44.3	31.9	32.8	100 ± 15	24.3
													31.25	13.9	42.9	29.0	30.9	100 ± 15	23.6
													62.5	20.2	38.4	18.3	24.9	100 ± 15	21.5
													100	26.0	35.3	9.2	20.8	100 ± 15	20.1
													155	33.2	32.5	–	16.9	100 ± 18	19.0
													200	38.4	30.8	–	14.7	100 ± 20	19.0
													250	43.7	29.3	–	12.8	100 ± 20	18.0
													350	53.2	27.2	–	9.9	100 ± 22	17.0



4-Pair

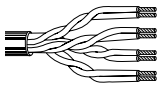
Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e Patch
U.S. Patents 5,606,151; 5,734,126 and 5,763,823
Jacket sequentially marked at 0.6 m intervals.

DataTwist® 5e U/UTP Patch Cables

TIA/EIA-568-B.2, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Stranded (7x32) 0.6 mm Bare Copper • Twisted Pair • RJ-45 Compatible*																			
Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, Blue, Violet, Light Grey, White and Black)																			
	1592A	NEC:	U-1000	U-305	22.0	10.0	0.61 mm	0.040	1.02	Non-	0.213	5.41	1	2.5	62.3	–	60.8	100 ± 15	20.0
		CM	1000	305	23.1	10.5	24 AWG			Bonded-Pair			4	4.9	53.3	–	48.7	100 ± 15	23.0
		CEC:					(7x32) BC			Unshielded			10	7.8	47.3	–	40.8	100 ± 15	25.0
		CM FT1								U/UTP			16	9.9	44.3	–	36.7	100 ± 15	25.0
													31.25	14.1	39.9	–	30.9	100 ± 15	23.6
													62.5	20.4	35.4	–	24.8	100 ± 15	21.5
													100	26.4	32.3	–	20.8	100 ± 15	20.1
													200	38.9	27.8	–	14.7	100 ± 25	15.0



4-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e Patch
Jacket sequentially marked at 0.6 m intervals.

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk •
NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* RJ-45 compatible for either T568-A or T568-B configurations.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)



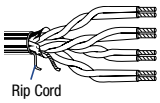
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

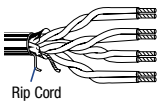
DataTwist® 5e F/UTP Patch Cables

EN 50173, ISO/IEC 11801, Category 5e,
Non-Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 26 AWG • Stranded (7x34) 0.5 mm Bare Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG TC Drain Wire • Rip Cord																			
Polyolefin Insulation • PVC Jacket (Grey and Blue)																			
	1868E		1640	500	29.8	13.5	0.51 mm 26 AWG (7x34) BC	0.037	0.95	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.205	5.20	1	3.2	62.0	59.1	61.0	100 ± 15	20.0
			3280	1000	59.5	27.0							4	6.0	53.0	47.3	49.0	100 ± 15	23.0
													8	8.5	49.0	40.3	43.0	100 ± 15	24.5
													10	9.5	47.0	37.8	41.0	100 ± 15	25.0
													16	12.1	44.0	32.2	37.0	100 ± 15	25.0
													20	13.6	43.0	29.2	35.0	100 ± 15	25.0
													25	15.2	41.0	26.1	33.0	100 ± 15	24.3
													31.25	17.1	40.0	22.8	31.0	100 ± 15	23.6
													62.5	24.8	35.0	10.6	25.0	100 ± 15	21.5
													100	32.0	32.0	0.3	21.0	100 ± 15	20.1
			Color Code: see chart below																
Polyolefin Insulation • Grey FRNC/LSNH Jacket																			
	1868ENH		1640	500	29.8	13.5	0.51 mm 26 AWG (7x34) BC	0.037	0.95	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) F/UTP	0.205	5.20							see above
			3280	1000	59.5	27.0													
			Color Code: see chart below							Burning Energy: 355 kJ/m									



4-Pair



4-Pair

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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VideoTwist® 6 U/UTP Cables for RGB Video

TIA/EIA-568-B.2-1, Category 6,
Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
NanoSkew™ • Category 6 • 23 AWG Bonded-Pairs • Solid 0.6 mm Bare Copper • **Skew 10.0 ns/100 m** Nominal • Rip Cord																			
Polyolefin Insulation • Blue PVC Jacket																			
300V RMS	**7989R**	NEC	1000	305	32.0	14.5	0.57 mm	0.042	1.06	Bonded-Pair	0.365	9.27	1	2.0	72.3	70.3	64.8	100 ± 15	20.0
		CMR	1640	500	52.5	23.8	23 AWG			Unshielded	x	x	4	3.8	63.3	59.5	52.7	100 ± 15	23.0
		CEC					Solid BC			U/UTP	0.165	4.19	8	5.3	58.8	53.4	46.7	100 ± 15	24.5
		CMR FT4											10	6.0	57.3	51.3	44.8	100 ± 15	25.0
													16	7.6	54.3	46.7	40.7	100 ± 15	25.0
													20	8.5	52.8	44.3	38.7	100 ± 15	25.0
													25	9.5	51.4	41.8	36.8	100 ± 15	24.3
													31.25	10.7	49.9	39.2	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
													100	19.8	42.3	22.5	24.8	100 ± 15	20.1
													155	25.2	39.5	14.3	20.9	100 ± 22	18.8
													200	29.0	37.8	8.8	18.7	100 ± 22	18.0
													250	32.8	36.3	3.5	16.8	100 ± 32	17.3
Rip Cord 4-Pair MediaTwist™ Construction			Color Code: see chart below																
Plenum • Polyolefin Insulation • Blue PVC Jacket																			
300V RMS	**7989P**	NEC	1000	305	32.0	14.5	0.57 mm	0.039	1.00	Bonded-Pair	0.365	9.27							see above
		CMR	1640	500	52.5	23.8	23 AWG			Unshielded	x	x							
		CEC					Solid BC			U/UTP	0.165	4.19							
		CMR FT4																	
Rip Cord 4-Pair MediaTwist™ Construction			Color Code: see chart below																

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)



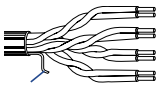
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

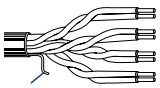
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

VideoTwist® 5e U/UTP Cables for RGB Video

TIA/EIA-568-B.2, Category 5e,
Bonded-Pair Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Twisted Pair • Skew 9.0 ns/100 nom. • Rip Cord																			
Polypropylene Insulation • Green PVC Jacket																			
	7988R	NEC:	1000	305	22.0	10.0	0.51 mm	0.038	0.97	**Bonded-Pair**	0.204	5.18	1	2.0	65.3	60.3	60.8	100 ± 15	20.0
		CMR	1640	500	36.2	16.4	24 AWG			Unshielded			4	4.1	53.3	49.3	48.7	100 ± 15	23.0
		CEC:					Solid BC			U/UTP			10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CMG											16	8.2	44.3	36.0	36.7	100 ± 15	25.0
													31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	18.4	24.8	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1
													200	32.4	27.8	1.0	14.7	100 ± 15	15.0
4-Pair		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.										
Plenum • FEP Insulation • Green Flamarrest® Jacket																			
	7988P	NEC:	1000	305	22.9	10.4	0.51 mm	0.036	0.91	**Bonded-Pair**	0.193	4.90							see above
		CMP	1640	500	37.7	17.1	24 AWG			Unshielded									
		CEC:					Solid BC			U/UTP									
		CMP																	
4-Pair		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.										





BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)



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IEEE 802.3, ISO/IEC 8802.3 10Base2 and 10Base5

Trunk Cables – Thinnet and Thicknet

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
Thinnet 10Base2 • 20 AWG • Stranded (19x32) 0.9 mm Tinned Copper • **Duobond® II** • 93% Tinned Copper Braid																			
Ethernet • Foam HDPE Insulation • Grey PVC Jacket																			
30V 60°C UL AWM Style 1354	**9907**	NEC: CL2, CM CEC: CM	500 U-1000 1000 1640 2500 3280	152 U-305 305 500 762 1000	12.6 25.1 25.1 41.0 62.6 82.2	5.7 11.4 11.4 18.6 28.4 37.3	0.94 mm 20 AWG (19x32) TC 47.9 Ω/km* 28.9 Ω/km**	0.102	2.59	Duobond® II + 93% TC 19.0 Ω/km***	0.185	4.70	50	80%	25.4	83.3	1 10 50 100 200 400 700 900 1000	0.4 1.3 2.9 4.2 6.1 8.9 12.1 13.9 14.8	1.4 4.3 9.5 13.8 20.0 29.2 39.7 45.6 48.6
DEC Part No. 17-01248-00 For Plenum version of 9907, see 89907 or 82907.																			
Plenum • Ethernet • Foam FEP Insulation • Natural Flamarrest® Jacket																			
300V 75°C	**82907**	NEC: CL2P CMP CEC: CMP	† 500 U-1000 † 1000 † 2500	152 U-305 305 762	12.6 23.1 24.0 57.5	5.7 10.5 10.9 26.1	0.94 mm 20 AWG (19x32) TC 47.9 Ω/km* 28.9 Ω/km**	0.095	2.41	Duobond® II + 93% TC 19.0 Ω/km***	0.160	4.06	50	80%	25.4	83.3	1 10 50 100 200 400 700 900 1000	0.4 1.3 2.9 4.2 6.1 9.2 12.9 15.0 16.0	1.4 4.3 9.5 13.8 20.0 30.2 42.3 49.2 52.5
Plenum • Ethernet • Foam FEP Insulation • Grey Fluorocopolymer Jacket																			
300V 150°C	**89907**	NEC: CL2, CM CEC: CM	† 500 † 1000 † 2500	152 305 762	12.6 24.0 60.2	5.7 10.9 27.3	0.94 mm 20 AWG (19x32) TC 47.9 Ω/km* 28.9 Ω/km**	0.095	2.41	Duobond® II + 93% TC 19.0 Ω/km***	0.160	4.06	50	80%	25.4	83.3			see above
DEC Part No. 17-01246-00 Suitable for outdoor and direct burial applications.																			
Thinnet 10Base2 • 12 AWG • Solid 2.05 mm Bare Copper • **Duobond® IV** Quad Shield																			
Ethernet • Foam Polyethylene Insulation • Yellow PVC Jacket																			
30V 60°C UL AWM Style 1478	**9880**	NEC: CL2, CM CEC: CM	500 1000 1640	152 305 500	66.1 131.2 220.2	30.0 59.5 99.9	2.05 mm 12 AWG Solid BC 9.66 Ω/km* 4.66 Ω/km**	0.243	6.17	Duobond® IV Quad Shield 5.0 Ω/km***	0.405	10.29	50	78%	25.9	85.0	1 5 10 50 100 200 400 700 900 1000	0.2 0.4 0.5 1.2 1.7 2.6 3.9 5.5 6.5 6.9	0.6 1.2 1.7 3.9 5.6 8.4 12.8 18.1 21.3 22.6
DEC Part No. 17-00451-00 5.0 Ω/km For Plenum version of 9880, see 89880.																			
Ring-band stripes marked every 2.5 meters to aid users in tap placement.																			
Plenum • Ethernet • Foam FEP Insulation • Orange Fluorocopolymer Jacket																			
150°C	**89880**	NEC: CL2P CMP CEC: CMP	† 1000 † 1640	305 500	134.3 225.1	60.9 102.1	2.05 mm 12 AWG Solid BC 9.66 Ω/km* 4.66 Ω/km**	0.245	6.22	Duobond® IV* Quad Shield 5.0 Ω/km***	0.375	9.53	50	78%	25.9	85.0	1 5 10 50 100 200 400 700 900 1000	0.2 0.4 0.5 1.1 1.6 2.5 3.8 5.6 6.8 7.2	0.6 1.2 1.7 3.8 5.4 8.0 12.5 18.4 22.3 23.6
DEC Part No. 17-00324-00 Suitable for outdoor and direct burial applications.																			
Ring-band stripes marked every 2.5 meters to aid users in tap placement.																			

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

Duobond® II and Duobond® IV see technical information page 23.13.

Not RoHS compliant at time of printing.

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IEEE 802.3, ISO/IEC 8802.3 10Base5

Transceiver Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
28 and 24 AWG • Stranded (7x36) 0.4 mm and (7x32) 0.6 mm Tinned Copper • **Beldfoil®** • Twisted Pair • **Overall Polyester Isolation Tape + Duofoil® + 92% Tinned Copper Braid** • 24 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Light Grey PVC Jacket																		
30V 80°C UL AWM Style 2919	**9903**	NEC: CMG CEC: CMG	500 1000	152 305	21.6 43.0	9.8 19.5	3-Pair: 0.38 mm 28 AWG (7x36) TC	0.033	0.84	Individual Beldfoil® + Drain Wire (24 AWG TC) + Overall Duofoil® + 92% TC Braid	0.250	6.35	78*	66%	CDR/CDR	19.7 34.8	64.6 114.2	Grey/White, Yellow/Orange
							1-Pair: 0.61 mm 24 AWG (7x32) TC	0.044	1.12									Blue/Green, Black/Red
4-Pair * 3-Pair																		
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • Twisted Pair • **Overall Polyester Isolation Tape + Duofoil® + 95% Tinned Copper Braid** • 22 AWG Tinned Copper Drain Wire																		
Datalene® Insulation • Light Grey PVC Jacket																		
30V 80°C UL AWM Style 2919	**9901**	NEC: CL2, CM CEC: CM	500 1000	152 305	53.6 106.3	24.3 48.2	1.0 mm 20 AWG (7x28) TC	0.077	1.96	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.415	10.54	78	78%	CDR/CDR	16.7 29.5	54.8 96.8	Grey/White Yellow/Orange, Blue/Green, Black/Red
4-Pair			DEC Part No. 17-01320-00															
Plenum • FEP Teflon® Insulation ** **• Light Grey Fluorocopolymer (PVDF) Jacket**																		
150°C	**89901**	NEC: CMP CEC: CMP	** 500 ** 1000	152 305	51.6 104.3	23.4 47.3	1.0 mm 20 AWG (7x28) TC	0.060	1.52	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.370	9.40	78	78%	CDR/CDR	16.7 29.5	54.8 96.8	Grey/White Yellow/Orange, Blue/Green, Black/Red
4-Pair			DEC Part No. 17-01319-00 Suitable for outdoor and direct burial applications.															
20 and 22 AWG • Stranded (7x30) 0.8 mm and (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • Twisted Pair • **Overall Duofoil® + 95%Tinned Copper Braid** • 22 AWG Tinned Copper Drain Wire																		
Ethernet • Foam HDPE (22 AWG) and PVC (20 AWG) Insulation • Light Blue PVC Jacket																		
30V 80°C UL AWM Style 2919	**9891**	NEC: CM CEC: CM	100 500 1000	30 152 305	8.2 35.9 70.1	3.7 16.3 31.8	3-Pair: 0.76 mm 22 AWG (7x30) TC	0.063	1.59	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.315	8.00	78*	78%	CDR/CDR	16.7 29.5	54.8 96.8	Black/White Yellow/Orange, Blue/Green, Black/Red
							1-Pair: 0.96 mm 20 AWG (7x28) TC	0.062	1.57									Blue/Green, Grey/Violet
4-Pair * 3-Pair																		

TC = Tinned Copper • DCR = DC resistance • ** Foam FEP (data pairs) and solid FEP (power pair).
Duofoil® see technical information page 23.13. Teflon® is a DuPont trademark.

Not RoHS compliant at time of printing

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IEEE 802.4, MAP & Mini-MAP, IEEE 802.7

Broadband Coaxial Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
14 AWG • Solid 1.6 mm Copper-Covered Steel • **Duobond® IV** Quad Shield																			
Gas-Injected Foam Polyethylene Insulation • Grey PVC Jacket																			
	3094A	NEC:	500	152	31.1	14.1	1.63 mm	0.280	7.11	Duobond® IV	0.407	10.34	75	82%	16.2	53.1	1	0.2	0.5
		CL2R	1000	305	62.2	28.2	14 AWG			Quad Shield							2	0.2	0.6
		CMR	† 2000	610	121.9	55.3	Solid CCS			4.9 Ω/km***							5	0.3	0.9
		CEC:					20.0 Ω/km*			7.9 mm							10	0.4	1.2
		CMG					36.1 Ω/km**										20	0.5	1.8
																	50	0.8	2.7
																	100	1.2	3.8
																	200	1.6	5.3
RG-11/U Type			Tap marks every 2.6 meters to aid users in installation. 152 m and 305 m exact 1 pc.							Sweep tested 5 MHz to 400 MHz. CPE jacket optional.							300	2.0	6.6
																	400	2.3	7.6

IEEE 802.5, ISO/IEC 8802.5

IBM Cabling System
Types 1A and 1

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
IBM Type 1a • 22 AWG • Solid 0.6 mm Bare Copper • Each Pair Individually **Beldfoil®** Shielded • 65% Overall Tinned Copper Braid • Rip Cord																			
Flame-Retardant Foam Polyethylene Insulation • Black PVC Jacket																			
	IBM Part No. 9688	NEC:	† 500	152	26.5	12.0	0.64 mm	0.099	2.51	Individual	0.296	7.52	150	–	8.5	27.9	4	0.7	2.2
	4716748	CMG	† 1000	305	50.0	22.7	22 AWG			Beldfoil®	x	x					16	1.3	4.4
	33G2772	CEC:	† 2000	610	102.1	46.3	Solid BC			+ Overall	0.431	10.95					100	3.8	12.3
		CMG	† 3600	1098	190.7	86.5				65% TC Braid							300	6.5	21.4
																	100 ††	4.1	13.4
																	300 ††	7.1	23.3
																	600 ††	10.0	32.9
Rip Cord																			
2-Pair			Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For token ring (4/16 Mbps), FDDI over copper, and video applications. IBM qualified type 1A media cable for use in IBM cabling systems. For non-suffix "A" type IBM product, see 1634A below.																
BM Type 1 • 22 AWG • Solid 0.6 mm Bare Copper • Each Pair Individually **Beldfoil®** Shielded • 65% Overall Tinned Copper Braid • Rip Cord																			
Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket																			
	IBM Part No. 1634A	NEC:	† 1000	305	50.0	22.7	0.64 mm	0.099	2.51	Individual	0.296	7.52	150	–	8.5	27.9	4	0.7	2.2
	4716748	CMG	† 2000	610	102.3	46.4	22 AWG			Beldfoil®	x	x					16	1.3	4.4
		CEC:	† 3600	1098	191.1	86.7	Solid BC			+ Overall	0.431	10.95							
		CMG								65% TC Braid									
Rip Cord																			
2-Pair			Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. IBM qualified type 1A media cable for use in IBM cabling systems. For token ring (4/16 Mbps), FDDI over copper, and video applications.																

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • CCS = Copper-Covered Steel • TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.
†† Common mode

Duobond® IV see technical information page 23.13.

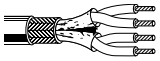
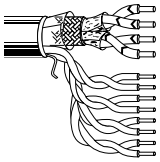
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IEEE 802.5, ISO/IEC 8802.5

IBM Cabling System
Types 2A and 6A

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
IBM Type 6a • 26 AWG • Stranded (7x34) 0.5 mm Bare Copper • Twisted Pair • Individual **Beldfoil®** • 65% Overall Tinned Copper Braid																			
Datalene® Insulation • Striated Black PVC Jacket																			
IBM Part No. 1215A 4716743 33G2775	NEC: CL2, CM CEC: CM	† 998	304	46.1	20.9	0.48 mm 26 AWG (7x34) BC	0.078	1.98	Individual Beldfoil® + 65% TC Braid	0.325	8.26	150	–	8.5	27.9	4 16 100 300	1.0 2.0 5.7 9.8	3.3 6.6 18.7 32.3
																			
2-Pair		IBM qualified type 6A office cable for use in IBM cabling systems.																	
IBM Type 2a • 22 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Individual **Beldfoil®** • 65% Overall Tinned Copper Braid • Rip Cord																			
Flame-Retardant Foam Polyethylene Insulation • Black PVC Jacket																			
IBM Part No. 9689 4716739 33G2773	NEC: CMG CEC: CMG	† 1000 † 3600	305 1098	80.2 299.4	36.4 135.8	2-Pair* 0.64 mm 22 AWG Solid BC	0.099	2.51	Beldfoil® Each Pair + 65% TC Braid	0.324 x 0.466	8.32 x 11.84	150@ 1 MHz (data)	–	8.5 (data)	27.9 (data)	0.1k** 4 16 100 300	0.04 0.7 1.3 3.8 6.5	0.1 2.2 4.4 12.3 21.4
													600@ 1 KHz (voice)			100 †† 300 †† 600 ††	4.1 7.1 10.0	13.4 23.3 32.9
						4-Pair* 0.64 mm 22 AWG Solid BC	0.045	1.14											
		IBM qualified type 2A media cable for use in IBM cabling systems.																	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.
†† Common mode
* (2) shielded Data-grade pair; (4) unshielded voice-grade media pair.
** Voice pairs (1 kHz); Data pairs (4-600 MHz)

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BELDEN
SENDING ALL THE RIGHT SIGNALS



16 Commercial Networking – Optical Fiber

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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

Fiber Solutions for Even Faster Performance

Belden IBDN Fiber*Express* systems offer many benefits: high bandwidth and transmission speed, the potential for network growth, extended reach, fault tolerance, greater data security and support for Gigabit and multi-Gigabit protocols and networked applications. Beyond these traditional benefits, however, Belden offers the Fiber*Express* solution, a complete end-to-end cabling system supporting both centralized and fiber-to-the-desk topologies, as well as backbone and campus cabling configurations. Our Fiber*Express* solutions meet or exceed all applicable TIA/EIA, ISO/IEC and IEEE standards and offer:

- Reduced design complexities
- Greater deployment facility
- Quick installation
- Increased flexibility
- Cost effective pricing

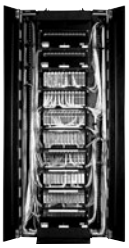
Primary Fiber*Express* System Components

Key components of the Fiber*Express* systems are summarized below and are found on the catalog pages that follow.

- **Optimax® Connectors**
  Optimax® connectors are a revolutionary field-installable optical fiber connector. The unique design of the patented mechanical splice body of Optimax® incorporates a factory mounted fiber stub and a pre-polished ceramic ferrule. This technology consistently provides a fast, secure and reliable LC, SC or ST compatible optical fiber termination for multimode or single-mode cable. All critical steps are performed in the factory, ensuring a superior quality connection every time.



- **The Fiber*Express* Manager**
  The Fiber*Express* manager makes fiber management easier than ever before. Designed to streamline termination, connection and maintenance activities, the Fiber*Express* manager uses a scalable, modular approach to adapt to a wide variety of situations. The total system provides extra high connection density while facilitating cable routing and patch cord management. The Fiber*Express* manager is adaptable for almost all situations, traditional field termination or pre-terminated modules, which reduces design complexity and increases deployment efficiency.



- **Extended Reach Optical Fiber Cables**
  Extended Reach Optical Fiber Cables propel your network into the future of cable technology with our multimode Fiber*Express* FX300, FX600 or FX2000 series. These series were developed to meet the existing needs of networks at 1 Gb/s (ethernet, 1000Base-SX and 1000Base-LX) and new networks at 10 Gb/s (ethernet, 10GBase-S and 10GBase-LX4). These series offer better reach for laser-based systems. For 1 Gb/s Ethernet at 850 nm (VCSEL), the FX300 and FX600 series provide a range of 984 ft. (300 m) and 1968 ft. (600 m), respectively. For 10 Gb/s ethernet at 850 nm (VCSEL), the FX2000 series provide a range of 984 ft. (300 m) for 10GBase-S where all of multimode series can offer a 984 ft. (300 m) range at 1300 nm (laser) for 10GBase-LX4. All of this while assuring total compatibility with LED systems and FDDI fiber installation cables. Our single-mode cable offering enhances the options for longer distance support up to 40 km – for any of the Gigabit ethernet applications.



- **The Fiber*Express* Bar**
  The Fiber*Express* bar is an extremely compact, modular and resilient linking panel. Resembling a power bar, it offers 6 or 12 fibers, pre-terminated with an SC, SC duplex, ST-compatible, LC, MT-RJ or FC connectors and a cord terminated with a multi-fiber MPO connector – all of which are factory verified. The Fiber*Express* bar can adapt to all kinds of properties or developments, and can serve as a consolidation or linking point. It's available in both single-mode and multimode media.



For the ultimate in quick, easy and reliable optical networking we also offer the Fiber*Express* pre-connectorized system. Based on the concept of building blocks, the complete range of pre-terminated Fiber*Express* components bring flexibility to the design stage. The in-factory fabrication and verification of pre-terminated connections ensures the high-performance and high-quality of the product. These products are "plug and go" and their deployment requires no specialized tools – you can deploy 12 fibers in the same amount of time it takes to connect a power cord to a standard electrical plug. This pre-terminated technology will help to preserve the initial investment by its ability to be re-deployed while always ensuring quality results.

Quality Installation and Service

All Belden IBDN systems are designed, installed and field-tested by fully-trained and certified system contractors and integrators to further assure superior systems performance. They are also backed by a strict system certification and warranty program.

System Certification and Warranty Program

The Belden IBDN Certification Program is a rigorous process that ensures that your Belden IBDN 'Certified' System is composed of Belden IBDN components, designed and installed by a factory-trained Certified System Vendor. Belden IBDN 'certified' systems are supported by a series of warranties that surpass conventional product warranties. Certification adds important end-to-end system performance guarantees and ensures full compliance with cabling industry standard specifications – even after system installation (Installable Performance®). A 25-year product warranty and a lifetime application assurance program accompany each Belden IBDN 'certified' system installation. These warranty programs include coverage for both parts and labor.

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Introduction

Fiber Channel Topology

Fiber*Express* System Matrix	Page No.	Fiber-to-the-Desk (FTTD) and Centralized Fiber	Fiber Backbone (In-Building)	Fiber Backbone (Campus)	Fiber*Express* Pre-Terminated Solutions*
Fiber*Express* Cables					
Distribution & Breakout Cable Series Multimode and Single-mode	16.28 – 16.32	●			●
Interconnect Cable Series Multimode and Single-mode	16.25 – 16.27	●			
Loose Tube (Campus) Cable Series MM, SM, Composite MM/SM	16.33 – 16.58			●	●
Cross-Connect Hardware in the Telecom Room					
Fiber*Express* Manager with Fiber*Express* Manager Connector Modules Multimode and Single-mode	16.11	●	●	●	●
Fiber*Express* Rack Mount Patch Panel with Universal Adapter Strips Multimode and Single-mode	16.12	●		●	●
Fiber*Express* Wall Mount Patch Panel with Universal Adapter Strips Multimode and Single-mode	16.13	●		●	●
Fiber*Express* Bar: Multimode and Single-mode	16.8	●	●	●	●
Patch Cords in the Telecom Room and at the Work Area					
Fiber*Express* Patch Cords: Multimode and Single-mode	16.6	●	●	●	●
Outlets at the Work Area					
MDVO® Multimedia Outlets with MDVO Multimedia Modules	16.16	●			
MediaFlex® Outlets with MediaFlex Multimedia Inserts	16.15	●			
Fiber*Express* Bar Multimode and Single-mode (as MUTOA)	16.8	●	●		
Fiber Connectivity					
Optimax® Connectors Multimode and Single-mode	16.4	●		●	●
Epoxy Field Mountable Connectors Multimode and Single-mode	16.5	●		●	●
Fiber Pigtails Multimode and Single-mode	16.9	●		●	●

MM = Multimode • SM = Single-mode

* Fiber*Express* pre-terminated solutions provide simple-to-install, high-performance fiber channels through custom length, high precision factory terminated cables and matching optical connectivity components.

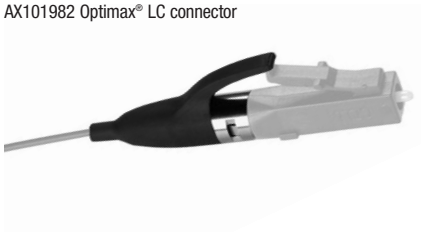
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Fiber*Express* Connectors

Optimax® Field Installable Connectors and Installation Tool Kits

AX101982 Optimax® LC connector



AX100029 with AX101794 Optimax® SC connector



A0408835 with AX101793 Optimax® ST compatible connector



AX100947 Optimax® tool kit



These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

* For 900 µm buffered fiber only. For Optimax® single-mode termination on jacketed fiber, please use the appropriate Accessory Kit.

Optimax® Field Installable Connector

The Optimax® connectors are reliable field installable optical fiber connectors that are easy to install. They do not require epoxy, curing or polishing. Their unique design incorporates a factory polished fiber stub in a splice mechanism which provides a fast, secure, and reliable termination on optical fiber cables. All critical steps are performed in the factory, ensuring a superior-quality connection every time. Only simple tools are required for installation, making Optimax® a cost effective field termination.

Optimax® connectors are high-quality LC, SC and ST compatible connectors that use a ceramic ferrule with a physical contact (PC) polish for multimode and super physical contact (SPC) polish for single-mode that ensures the best possible mating of optical fibers. Connectors are available for 62.5 or 50/125 µm multimode fiber and single-mode fiber installations.

Optimax® Installation Tool Kit

The Optimax® installation tool kit is packaged in a small convenient carrying case and includes an Optimax® LC, SC and ST compatible installation and training video, installation instructions and all the tools required to terminate 900 µm buffered optical fiber and jacketed optical fiber.

The Optimax® installation tool kit has all the tools and supplies required to install both the Optimax® LC, SC or ST compatible multimode and single-mode connectors. Certain tool kit items can be purchased separately to accommodate installers already possessing basic optical fiber installation tools.

Description	Belden Part Number
Fiber*Express* Connectors	
Optimax® Field Installable Connector	
LC 62.5 µm, Multimode*	**AX101981**
LC 50 µm, Multimode*	**AX101982**
LC Single-mode*	**AX101983**
SC 62.5 µm, Multimode*	**AX100029**
SC 50 µm, Multimode*	**AX101077**
SC Single-mode*	**AX101792**
ST Compatible 62.5 µm, Multimode*	**A0408835**
ST Compatible 50 µm, Multimode*	**AX101075**
ST Compatible Single-mode*	**AX101791**
LC Accessory Kit for jacketed fiber (2 mm boot and a crimp sleeve)	**AX101984**
SC Accessory Kit for jacketed fiber (3 mm boot, crimp sleeves, cord adapter)	**AX101794**
ST Accessory Kit for jacketed fiber (3 mm boot, crimp sleeves)	**AX101793**
Optimax® Installation Tool Kit	
LC/SC/ST Compatible (includes installation tools, fiber cleaver, crimping tool, instruction manual, microscope, tweezers, alcohol wipes, marker, scissors, waste bottle, fiber stripper, cable stripper and training video)	**AX100947**
Basic (excludes fiber stripper & cleaver)	**AX100949**
Optimax® LC Tool Kit Upgrade (includes LC installation tool, instructions manual, foam for the case)	**AX102061**
Optimax® Individual Components	
Fiber Cleaver	**A0408829**
Installation Tool LC (does not include tool-clamp)	**AX102062**
Installation Tools ST Compatible and SC (includes tool-clamp)	**A0403634**
Microscope	**AX100910**
Refurbishing Materials (80 alcohol wipes and a black felt tip marker)	**AX100951**
Installation Instruction Manual, LC	**AX102063**
Installation Instruction Manual, SC	**PX101318**
Installation Instruction Manual, ST Compatible	**PX101317**
Installation & Training Video, CD (see literature ordering form on the web)	**NOT0651**
Crimp Tool complete with die	**A0403641**

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Fiber*Express* Connectors

Epoxy Field Installable Connectors

A0390851 Optical Fiber Field Installable Epoxy connector, ST compatible



Epoxy Field Installable Connector

Epoxy field installable connectors are available as multimode and single-mode ST compatible and SC field installable connectors. They require heat-cured epoxy and polishing.
Both types have a ceramic ferrule. Each connector comes complete with all the parts necessary for termination of tight-buffered fibers as well as jacketed fibers. Parts include crimp sleeves, boots, cord adapter and dust cap.

Description	Belden Part Number	
	Multimode	Single-Mode
Fiber*Express* Connectors		
Epoxy Field Installable Connector		
ST Compatible	**A0390851**	**AX101412**
SC Simplex	**AX100919**	**AX101411**
SC Duplex	**AX100929**	**–**

These products are in the process of being assessed for RoHS compliance.
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Pre-Connectorized Assemblies

Fiber*Express* Patch Cords

AX200057 Patch Cord Multimode SC Duplex (568SC)



Fiber*Express* Patch Cords

Fiber*Express* duplex patch cord assemblies are of the highest quality available. They are assembled and 100% optically tested in our factory prior to shipment. All patch cords are built with high-quality connectors and cables which guarantees superior performance and excellent reliability.

Description	Belden Part Number			
	Multimode, FX300, 62.5 µm	Multimode, FX600, 50.0 µm	Multimode, FX2000, 50.0 µm	Single-Mode SPC
Fiber*Express* Pre-Connectorized Assemblies				
Duplex Patch Cord				
ST-ST, 2 m (6 ft.)	**70102419**	**AX200341**	**AX200799**	**AX200090**
ST-ST, 3 m (10 ft.)	**70102420**	**AX200459**	**AX200795**	**AX200091**
ST-ST, 5 m (16 ft.)	**70102447**	**AX200413**	**AX200800**	**AX200092**
568SC-568SC, 2 m (6 ft.)	**AX200056**	**AX200084**	**AX200603**	**AX200094**
568SC-568SC, 3 m (10 ft.)	**AX200057**	**AX200082**	**AX200589**	**AX200095**
568SC-568SC, 5 m (16 ft.)	**AX200058**	**AX200280**	**AX200624**	**AX200096**
LC duplex-LC duplex, 2 m (6 ft.)	**AX200517**	**AX200527**	**AX200664**	**AX200507**
LC duplex-LC duplex, 3 m (10 ft.)	**AX200518**	**AX200528**	**AX200665**	**AX200508**
LC duplex-LC duplex, 5 m (16 ft.)	**AX200519**	**AX200529**	**AX200666**	**AX200509**
MTRJ-MTRJ, 2 m (6 ft.)	**AX101122**	**AX101139**	**AX200801**	**AX101157**
MTRJ-MTRJ, 3 m (10 ft.)	**AX101123**	**AX101138**	**AX200802**	**AX101156**
MTRJ-MTRJ, 5 m (16 ft.)	**AX101125**	**AX101137**	**AX200803**	**AX101155**
Hybrid Patch Cord				
568SC-ST, 3 m (10 ft.)	**AX200060**	**AX200196**	**AX200900**	**AX200421**
LC duplex-ST, 3 m (10 ft.)	**AX200699**	**AX200695**	**AX200809**	**AX200698**
LC duplex-568SC, 3 m (10 ft.)	**AX200580**	**AX200581**	**AX200668**	**AX200667**
MTRJ-ST, 3 m (10 ft.)	**AX101133**	**AX101151**	**AX200810**	**AX101166**
MTRJ-568SC, 3 m (10 ft.)	**AX101128**	**AX101143**	**AX200797**	**AX101161**
Single-Ended (pigtails)				
ST-open, 2 m (6 ft.)	**70100390**	**AX200458**	**AX200811**	**AX200097**
SC-open, 2 m (6 ft.)	**70101714**	**AX200192**	**AX200653**	**AX200098**
LC-open, 2 m (6 ft.)	**AX200657**	**AX200658**	**AX200660**	**AX200659**
MTRJ (m)-open, 3 m (10 ft.)	**AX101366**	**AX101367**	**AX200812**	**AX101368**

Also available as Simplex Patch Cords or custom assemblies, please contact customer service for more details.
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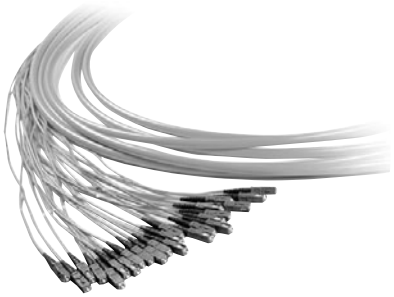
Fiber*Express* Pre-Connectorized Assemblies

Cable Assemblies

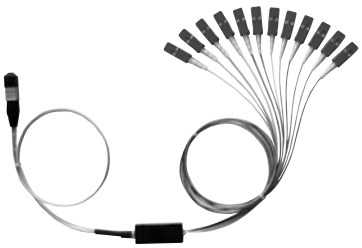
AX250105 MPO Cable Assembly



Multi-fiber Cable Assembly



900 µm Fan-out Assembly



These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

MPO Cable Assembly

MPO cable assemblies are multi-fiber cables using single MPO connectors 6, 8 and 12-fiber that are used to interconnect pre-terminated devices such as Fiber*Express* pre-terminated modules and Fiber*Express* bars. Depending on the application, MPO cable assemblies can use ribbon cables or loose tube cables. MPO cables are available in lengths of up to 500 meters with a pulling-eye for ease of deployment.

Multi-Fiber Cable Assembly

Multi-fiber cable assemblies are factory-terminated fiber cables of various constructions (distribution, breakout or ribbon) using simplex, duplex or multi-fiber connectors. They are available in configurations from 2-fiber up to 144-fiber with various kinds of fan-out constructions, lengths and geometry to suit virtually any application.

Description	Belden Part Number	
	Multimode	Single-Mode
Fiber*Express* Pre-Connectorized Assemblies		
MPO Cable Assembly, FOMC, MPO(f)-MPO(f)		
1 pulling eye, OFNP, 12 fibers, 10 m (33 ft.)	AX250021	AX250345
1 pulling eye, OFNP, 12 fibers, 20 m (66 ft.)	AX250105	AX250376
1 pulling eye, OFNP, 12 fibers, 50 m (164 ft.)	AX250349	AX250065
1 pulling eye, OFNP, 12 fibers, 75 m (246 ft.)	AX250060	AX250066
1 pulling eye, OFNP, 12 fibers, 100 m (328 ft.)	AX250061	AX250067
	Multimode	Single-Mode
1 pulling eye, OFNP, 12 fibers, 10 m (33 ft.)	AX250457	AX250224
1 pulling eye, OFNP, 12 fibers, 20 m (66 ft.)	AX250412	AX250106
1 pulling eye, OFNP, 12 fibers, 50 m (164 ft.)	AX250387	AX250071
1 pulling eye, OFNP, 12 fibers, 75 m (246 ft.)	AX250413	AX250072
1 pulling eye, OFNP, 12 fibers, 100 m (328 ft.)	AX250458	AX250073

Also available in 6 or 8-fiber MPO Cable Assemblies, please contact customer service for more details.

Description	Belden Part Number
Multi-Fiber Cable Assembly, MPO(m)-ST	
Multimode FX300, 62.5 µm, 12 fibers	NXC-RPML-PGPNNN-STPFBN-N-01.5
Multimode FX600, 50 µm, 12 fibers	NXC-RPNL-PGPNNN-STPFBN-N-01.5
Multimode FX2000, 50 µm, 12 fibers	NXC-RPFL-PGPNNN-STPFBN-N-01.5
Single-mode, 12 fibers	NXC-RPSL-PGANNN-STSFBN-N-01.5
Multi-Fiber Cable Assembly, MPO(m)-SC	
Multimode FX300, 62.5 µm, 12 fibers	NXC-RPML-PGPNNN-SCPFBN-N-01.5
Multimode FX600, 50 µm, 12 fibers	NXC-RPNL-PGPNNN-SCPFBN-N-01.5
Multimode FX2000, 50 µm, 12 fibers	NXC-RPFL-PGPNNN-SCPFBN-N-01.5
Single-mode, 12 fibers	NXC-RPSL-PGANNN-SCSFBN-N-01.5
Multi-Fiber Cable Assembly, MPO(m)-LC	
Multimode, FX300, 62.5 µm, 12 fibers	NXC-RPML-PGPNNN-LCPFBN-N-01.5
Multimode FX600, 50 µm, 12 fibers	NXC-RPNL-PGPNNN-LCPFBN-N-01.5
Multimode FX2000, 50 µm, 12 fibers	NXC-RPFL-PGPNNN-LCPFBN-N-01.5
Single-mode, 12 fibers	NXC-RPSL-PGANNN-LCSFBN-N-01.5
Multi-Fiber Cable Assembly, MPO(m)-MTRJ(m)	
Multimode FX300, 62.5 µm, 12 fibers	NXC-RPML-PGPNNN-JBPFBN-N-01.5
Multimode FX600, 50 µm, 12 fibers	NXC-RPNL-PGPNNN-JBPFBN-N-01.5
Multimode FX2000, 50 µm, 12 fibers	NXC-RPFL-PGPNNN-JBPFBN-N-01.5
Single-mode, 12 fibers	NXC-RPSL-PGANNN-JBSFBN-N-01.5

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Fiber*Express* Pre-Connectorized Assemblies

Fiber*Express* Bar

AX250001 Fiber*Express* Bar 12ST



MX100154 Fiber*Express* MPO Adapter



Fiber*Express* Bar

The Fiber*Express* bar consists of a custom length fiber cable with, at one end, a factory pre-terminated rugged mini patch panel and, at the other end, a factory installed multi-fiber MPO connector. The very compact fiber patch panel contains 6 or 12 factory-terminated and tested connectors in a variety of styles. The ruggedness of the Fiber*Express* bar makes it an ideal candidate for disaster recovery, industrial applications and other fiber deployment in harsh environment.

Fiber*Express* Bar Accessories

The MPO adapter is the sleeve that provides primary alignment and locking when connecting the two MPO connectors (male to female). It has a flange and a metal clip for panel mounting and it is included with each Fiber*Express* bar (1m with male connector).

The 19″ (0.48 m) rack mount housing is a 1U metal panel that holds one Fiber*Express* bar. It has a live hinge on the left-hand side and swings out giving access to the MPO connection and facilitate cable management and slack storage when used with the slack storage tray.

The front cover is a smoked plexiglas cover that protects the fiber cords connected to the Fiber*Express* bar. It has 2 push rivets for positive locking and easy handling.

The slack storage tray attaches to the back of the 19″ (0.48 m) rack mount housing to facilitate cable management and slack storage. It has a storage capacity of 5 meters of 12-fiber ribbon cable. The wall mount enclosure can contain one Fiber*Express* bar. It is made of heavy gage steel and has a locking cover.

Description	Belden Part Number	
	Multimode, FX300, 62.5 µm	Multimode, FX600, 50.0 µm
Fiber*Express* Pre-Connectorized Assemblies		
Fiber*Express* Bar		
12 ST type, MPO (m), 1 m	**AX250001**	**AX250052**
6 SC duplex, MPO (m), 12 fibers, 1 m	**AX250005**	**AX250054**
6 MT-RJ, MPO (m), 12 fibers, 1 m	**AX250178**	**AX250179**
12 LC, MPO (m), 1 m	**AX250539**	**AX250540**
	Multimode, FX2000, 50.0 µm	Single-Mode
12 ST type, MPO (m), 1 m	**AX250459**	**AX250009**
6 SC duplex , MPO (m), 12 fibers, 1 m	**AX250460**	**AX250011**
6 MT-RJ, MPO (m), 12 fibers, 1 m	**AX250461**	**AX250180**
12 LC, MPO (m), 1 m	**AX250541**	**AX250542**

Also available for 6 fibers, please contact customer service for more details.

Description	Belden Part Number
Fiber*Express* Bar Accessories	
MPO Adapter (6 or 12 fibers) included with each Fiber*Express* Bar (1 m - male)	**MX100154**
19″ (0.48 m) Rack Mount Housing for Fiber*Express* Bar, Grey	**AX100331**
19″ (0.48 m) Rack Mount Housing for Fiber*Express* Bar, Black	**AX100330**
Front Cover for Fiber*Express* Rack Mount Housing	**AX100332**
Slack Storage Tray for Fiber*Express* Bar, (capacity: 5 meters) including top cover, Grey	**AX100329**
Slack Storage Tray for Fiber*Express* Bar, (capacity: 5 meters) including top cover, Black	**AX100328**
Wall Mount Enclosure, can contain one bar, Black	**AC200004**

These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

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Fiber*Express* Secure/Keyed LC System

Optimax® Field Installable Connectors and Patch Cords & Pigtails

AX102197 Secure/keyed LC Optimax®



Secure/keyed LC System



Fiber*Express* Secure/Keyed LC System

The Fiber*Express* secure/keyed LC system allows for physical segregation of network segments in secure fiber cabling infrastructures. All secure/keyed LC products are available with 6 different keying options each carrying a different color to facilitate network administration. The keying detail inside the connector is totally tamper-resistant and cannot be re-produced inside a standard LC connector to violate the network security. All products comply with the FOCIS 10 standard and optical performance exceeds all industry standards for SFF connectors.

The secure/keyed LC Optimax® field installable connectors are available in multimode 50 µm laser-optimized and 62.5 µm fiber versions. They are high-quality connectors that use a ceramic ferrule with a physical contact (PC) polish for multimode connectors.

The secure/keyed LC patch cords and pigtails are offered in multimode 62.5 µm (FX300), 50/125 µm (FX600) and laser-optimized 50/125 µm (FX2000) for the most demanding network performance.

Description	Belden Part Number					
	K1, Red	K2, Green	K3, Yellow	K4, Black	K5, Orange	K6, Blue
Fiber*Express* Secure/Keyed LC System						
Secure/Keyed LC Optimax®*						
Multimode 62.5 µm**	AX102203	AX102204	AX102205	AX102206	AX102207	AX102208
Multimode 50 µm**	AX102197	AX102198	AX102199	AX102200	AX102201	AX102202
Secure/Keyed LC Duplex Patch Cord, KEYx-KEYx*						
2 m (6 ft.), Multimode FX300, 62.5 µm	AX201365	AX201366	AX201367	AX201368	AX201369	AX201370
2 m (6 ft.), Multimode FX600, 50 µm	AX201383	AX201384	AX201385	AX201386	AX201387	AX201388
2 m (6 ft.), Multimode FX2000, 50 µm	AX201401	AX201402	AX201403	AX201404	AX201405	AX201406
3 m (10 ft.), Multimode FX300, 62.5 µm	AX201371	AX201372	AX201373	AX201374	AX201375	AX201376
3 m (10 ft.), Multimode FX600, 50 µm	AX201389	AX201390	AX201391	AX201392	AX201393	AX201394
3 m (10 ft.), Multimode FX2000, 50 µm	AX201407	AX201408	AX201409	AX201410	AX201411	AX201412
5 m (16 ft.), Multimode FX300, 62.5 µm	AX201377	AX201378	AX201379	AX201380	AX201381	AX201382
5 m (16 ft.), Multimode FX600, 50 µm	AX201395	AX201396	AX201397	AX201398	AX201399	AX201400
5 m (16 ft.), Multimode FX2000, 50 µm	AX201413	AX201414	AX201415	AX201416	AX201417	AX201418
Secure/Keyed LC Duplex Hybrid Patch Cord, KEYx-LCD*						
2 m (6 ft.), Multimode FX300, 62.5 µm	AX201419	AX201420	AX201421	AX201422	AX201423	AX201424
2 m (6 ft.), Multimode FX600, 50 µm	AX201437	AX201438	AX201439	AX201440	AX201441	AX201442
2 m (6 ft.), Multimode FX2000, 50 µm	AX201455	AX201456	AX201457	AX201458	AX201459	AX201460
3 m (10 ft.), Multimode FX300, 62.5 µm	AX201425	AX201426	AX201427	AX201428	AX201429	AX201430
3 m (10 ft.), Multimode FX600, 50 µm	AX201443	AX201444	AX201445	AX201446	AX201447	AX201448
3 m (10 ft.), Multimode FX2000, 50 µm	AX201461	AX201462	AX201463	AX201464	AX201465	AX201466
5 m (16 ft.), Multimode FX300, 62.5 µm	AX201431	AX201432	AX201433	AX201434	AX201435	AX201436
5 m (16 ft.), Multimode FX600, 50 µm	AX201449	AX201450	AX201451	AX201452	AX201453	AX201454
5 m (16 ft.), Multimode FX2000, 50 µm	AX201467	AX201468	AX201469	AX201470	AX201471	AX201472
Secure/Keyed LC Duplex Hybrid Patch Cord, KEYx-SCD*						
2 m (6 ft.), Multimode FX300, 62.5 µm	AX201473	AX201474	AX201475	AX201476	AX201477	AX201478
2 m (6 ft.), Multimode FX600, 50 µm	AX201491	AX201492	AX201493	AX201494	AX201495	AX201496
2 m (6 ft.), Multimode FX2000, 50 µm	AX201509	AX201510	AX201511	AX201512	AX201513	AX201514
3 m (10 ft.), Multimode FX300, 62.5 µm	AX201479	AX201480	AX201481	AX201482	AX201483	AX201484
3 m (10 ft.), Multimode FX600, 50 µm	AX201497	AX201498	AX201499	AX201500	AX201501	AX201502
3 m (10 ft.), Multimode FX2000, 50 µm	AX201515	AX201516	AX201517	AX201518	AX201519	AX201520
5 m (16 ft.), Multimode FX300, 62.5 µm	AX201485	AX201486	AX201487	AX201488	AX201489	AX201490
5 m (16 ft.), Multimode FX600, 50 µm	AX201503	AX201504	AX201505	AX201506	AX201507	AX201508
5 m (16 ft.), Multimode FX2000, 50 µm	AX201521	AX201522	AX201523	AX201524	AX201525	AX201526
Secure/Keyed LC Pigtail, KEYx-open*						
2 m (6 ft.), Multimode FX300, 62.5 µm	AX201527	AX201528	AX201529	AX201530	AX201531	AX201532
2 m (6 ft.), Multimode FX600, 50 µm	AX201533	AX201534	AX201535	AX201536	AX201537	AX201538
2 m (6 ft.), Multimode FX2000, 50 µm	AX201539	AX201540	AX201541	AX201542	AX201543	AX201544

These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.
* Patent pending. • ** For 900 µm buffered fiber only. The same accessory kit (AX101984) is used for 2 mm jacketed cable connector termination as for our regular Optimax® LC offering.

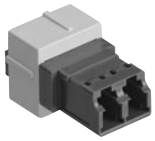
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Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips and Fiber*Express* Manager Modules

AX102098 Secure/keyed LC Adapter Module



AX102124 Secure/keyed LC Adapter Strip



AX102114 Secure/keyed LC
Fiber*Express* Manager Module



Fiber*Express* Secure/Keyed LC System

The Fiber*Express* secure/keyed LC System allows for physical segregation of network segments in secure fiber cabling infrastructures. All secure/keyed LC products are available with 6 different keying options each carrying a different color to facilitate network administration. The keying detail inside the connector is totally tamper-resistant and cannot be re-produced inside a standard LC connector to violate the network security. All products comply with the FOCIS 10 standard and optical performance exceeds all industry standards for SFF connectors.

The secure/keyed LC adapter modules and adapter strips can be used in all mounting hardware for workstation area, consolidation point or Telecom room applications.

The secure/keyed LC Fiber*Express* manager modules can be used in 19″ (0.48 m) and 23″ (0.58 m) Fiber*Express* manager shelves to provide a high-density management system of up to 1920 terminated fibers per rack.

Description	Belden Part Number					
	K1, Red	K2, Green	K3, Yellow	K4, Black	K5, Orange	K6, Blue
Fiber*Express* Secure/Keyed LC System						
Secure/Keyed LC Adapter Module*						
Grey holder	AX102089	AX102090	AX102091	AX102092	AX102093	AX102094
Almond holder	AX102095	AX102096	AX102097	AX102098	AX102099	AX102100
White holder	AX102101	AX102102	AX102103	AX102104	AX102105	AX102106
Black holder	AX102107	AX102108	AX102109	AX102110	AX102111	AX102112
Secure/Keyed LC Fiber*Express* Adapter Strip*						
12 fibers	AX102119	AX102120	AX102121	AX102122	AX102123	AX102124
24 fibers	AX102125	AX102126	AX102127	AX102128	AX102129	AX102130
Secure/Keyed LC Fiber*Express* Manager Module*						
12 fibers	AX102113	AX102114	AX102115	AX102116	AX102117	AX102118
24 fibers	AX102310	AX102311	AX102312	AX102313	AX102314	AX102315

* Patent pending.
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Fiber*Express* Manager
Rack Components and Modules

AX100934
Fiber*Express*
Manager Shelf



Fiber*Express* Manager Shelf

Fiber*Express* modules are rack-mounted using Fiber*Express* manager shelves. The shelves provide the total system with extra high connection density while facilitating cable routing and patch cord management. For 19″ (0.48 m) or 23″ (0.58 m) h rack: 19″ (0.48 m) shelf holds up to 12 modules; 23″ (0.58 m) shelf holds up to 16 modules.

AX101943 Fiber*Express*
Manager 1U Rack Mount
Patch Panel



Fiber*Express* Manager 1U

The Fiber*Express* manager 1U rack mount patch panel is a low-cost, compact assembly designed for interconnection or splicing of optical fiber cables, using up to three Fiber*Express* manager modules. The low-profile design minimizes rack space to only 45 mm (1.75″). An optional Fiber*Express* manager 1U cable management accessory is also available.

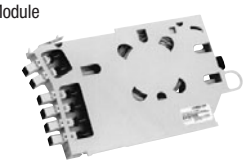
AX102032 Fiber*Express*
Manager 1U Cable
Management
Accessory



Fiber*Express* Manager Connector Module

The connector module is the basic building block of the Fiber*Express* manager. It is designed with a unique release mechanism that allows it to slide from the shelf like a PC card, easing management of patch cords.

AX101525 Connector Module
Pre-terminated
MPO-MT-RJ



Description	Belden Part Number	
	Grey	Black
Fiber*Express* Manager		
Fiber*Express* Manager		
Shelf, 23″ (0.58 m), 10.9 kg (24 lbs.)	**AX100934**	**AX100935**
Shelf, 19″ (0.48 m), 8.2 kg (18 lbs.)	**AX101084**	**AX101085**
1U, Rack Mount Patch Panel, 19″ (0.48 m), 5 kg (11 lbs.)	**AX101944**	**AX101943**
1U, Cable Management Accessory, 19″ (0.48 m), 1 kg (2 lbs.)	**AX102033**	**AX102032**

Description	Belden Part Number					
	ST Type	SC Simplex	SC Duplex	SC Duplex (ST in)	LC	FC
Fiber*Express* Manager						
Fiber*Express* Manager Connector Module						
Metal Sleeve, Multimode, 6 fibers	**AX101089**	–	**AX101092**	–	–	–
Zirconia Ceramic, Single-mode, 6 fibers	**AX100936**	**AX100943**	**AX100944**	–	–	–
Metal Sleeve, Multimode, 12 fibers	**AX101187**	–	**AX101714**	**AX101120**	**AX101528**	–
Zirconia Ceramic, Single-mode, 12 fibers	**AX101186**	–	**AX101713**	**AX101119**	**AX101527**	–
Zirconia Ceramic, Single-mode, 12 UPC pigtails	–	–	**AX101715**	–	–	–
Metal Sleeve, Multimode, 24 fibers	–	–	–	–	**AX102306**	–
Zirconia Ceramic, Single-mode, 24 fibers	–	–	–	–	**AX102305**	–
Zirconia Ceramic, Single-mode/Multimode, 6 fibers	–	–	–	–	–	**AX100937**

Description	Belden Part Number			
	Multimode 62.5 µm	Multimode 50.0 µm	Single-Mode	–
MPO(m)-ST type, 12 pre-terminated	**AX101189**	**AX101190**	**AX101188**	–
MPO(m)-SC Duplex, 12 pre-terminated	**AX101091**	**AX101114**	**AX101090**	–
MPO(m)-MT-RJ(m), 12 pre-terminated	**AX101525**	**AX101526**	**AX101524**	–
MPO(m)-LC, 12 pre-terminated	**AX101530**	**AX101531**	**AX101529**	–
MPO(m)-LC, 24 pre-terminated	**AX102309**	**AX102308**	**AX102307**	–
MT-RJ, Beige, Multimode, 12 fibers	–	–	–	**AX101096**
MT-RJ, Blue, Single-mode, 12 fibers	–	–	–	**AX101581**

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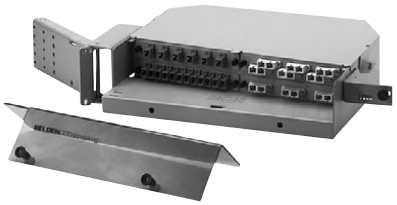
Fiber*Express* Patch Panels

Rack Mount Patch Panels

AX100041 Fiber*Express*, 12/24 Port (1U) Rack Mount Patch Panel



AX100069 Fiber*Express*, 24/48 Port (2U) Rack Mount Patch Panel



AX100078 Fiber*Express* (3U) Rack Mount Patch Panel



AX100115 Fiber*Express*, 48/96 Port (4U) Rack Mount Patch Panel



If single-ended patch cords are to be spliced to the fiber cable, don't forget to order splice organizer trays or kits. Both these, and the universal adapter strips can be ordered in the Fiber*Express* accessories section.

* IMPORTANT: The Fiber*Express* 1U accepts two (2) 203 mm (8″) splice trays. The 2U accepts four (4) 203 mm (8″) splice trays.

These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

Fiber*Express* Rack Mount Patch Panel 1U and 2U

The Fiber*Express* 1U and 2U rack mount patch panels are equipped with a special hinge that allows easy access to the rear of the patch panel without disturbing the optical fiber cable. A specially designed front panel allows connector protection and easy routing of optical fiber patch cords. The Fiber*Express* rack mount patch panels are also compatible with our 203 mm (8″) splice organizer trays. This allows the optical fiber cable to be either terminated with fiber single-ended patch cords or field-installable connectors. The patch panels can be used with ST Compatible, SC, 568SC, FC, LC or MT-RJ adapters strips (ordered separately).

The Fiber*Express* 1U rack mount patch panel is a low-cost, compact assembly designed for interconnection or splicing of optical fiber cables, from 12 up to 48 fibers if MT-RJ or LC double density adapter strips are used. The low-profile design minimizes rack space to only 45 mm (1.75″). An optional smoked plexiglass front cover is also available.

The Fiber*Express* 2U rack mount patch panel offers a high fiber capacity, 96 fibers if using double density MT-RJ or LC adapter strips. The Fiber*Express* 2U comes equipped with a smoked plexiglass front cover that protects fiber connections while allowing for quick visual inspection.

Fiber*Express* Rack Mount Patch Panel 3U

The Fiber*Express* 3U rack mount patch panel can accommodate up to 96 optical fiber connections using MT-RJ or LC connectors. The connector panel is mounted on a sliding drawer for easy access to the back side (cable side) of the panel. The Fiber*Express* 3U rack mount patch panel can be used with either optical fiber single-ended patch cords or field-installable connectors. If optical single-ended patch cords are to be used, organizer trays are easily accessible via the removable front access pull-out drawer. (Trays must be ordered separately.)

The Fiber*Express* 3U rack mount patch panel is a compact cross-connect assembly for the termination of optical fiber cables. The low-profile design minimizes required rack space to 127 mm (5″). It is compatible with ST compatible, SC, 568SC, MT-RJ, LC and FC adapters strips (ordered separately).

Fiber*Express* Rack Mount Patch Panel 4U

The Fiber*Express* 4U rack mount patch panel is an economical solution for the protection of optical fiber terminations and splices, up to 192 optical fibers if using MT-RJ or LC connectors. The connector panel, accepting the universal adapter strips, is located inside the enclosure and swings out (left or right) to give easy access to the cable and splices.

The Fiber*Express* 4U rack mount patch panel is a compact cross-connect enclosure for the cross-connection, interconnection or splicing of optical fiber cables. The low-profile design minimizes required rack space to 178 mm (7″). It can be used with ST Compatible, SC, 568SC, MT-RJ, LC and FC adapters strips (ordered separately).

Description	Belden Part Number
Fiber*Express* Patch Panels	
Fiber*Express* Rack Mount Patch Panel 1U*	
Grey	**AX100042**
Black	**AX100041**
Fiber*Express* Rack Mount Patch Panel 2U*	
Grey	**AX100069**
Black	**AX100068**
Fiber*Express* Rack Mount Patch Panel 3U	
Grey	**AX100078**
Black	**AX100077**
Fiber*Express* Rack Mount Patch Panel 4U	
Grey	**AX100115**
Black	**AX100116**

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Fiber*Express* Patch Panels

Rack Mount Accessories and Wall Mount Patch Panels

AX101800 127 mm (5″) Universal Offset Bracket Kit, for 19″ (0.48 m) and 23″ (0.58 m) Racks 1U



AX101802 23″ (0.58 m) Rack Universal Extension Bracket for 1U and 2U



AX100047 Right Side Cable Entry Bracket for 1U



AX100045 Front Cover for 1U



AX100543 Large Wall Mount



Fiber*Express* Rack Mount Patch Panels 1U and 2U Accessories

The accessories provide additional panel mounting flexibility for racks, cabinets and cable entry.

Description	Belden Part Number
Fiber*Express* Patch Panels	
Rack Mount Accessories (1U and 2U)	
127 mm (5″) Universal Offset Bracket Kit:	
for 19″ (0.48 m) and 23″ (0.58 m) racks (1U), Black	**AX101799**
for 19″ (0.48 m) and 23″ (0.58 m) racks (1U), Grey	**AX101800**
for 19″ (0.48 m) and 23″ (0.58 m) racks (2U), Black	**AX101797**
for 19″ (0.48 m) and 23″ (0.58 m) racks (2U), Grey	**AX101798**
23″ (0.58 m) Universal extension bracket, Black	**AX101801**
23″ (0.58 m) Universal extension bracket, Grey	**AX101802**
Right side cable entry bracket (1U), Black	**AX100046**
Right side cable entry bracket (1U), Grey	**AX100047**
Right side cable entry bracket (2U), Black	**AX100073**
Right side cable entry bracket (2U), Grey	**AX100074**
Front Cover (1U), Smoked Plexiglass	**AX100045**

Fiber*Express* Wall Mount Patch Panel

The Fiber*Express* wall mount patch panel series is an economical solution for the protection of optical fiber terminations and splices in hostile environments. Using the Fiber*Express* universal adapter strips (ordered separately), the wall mount patch panels allow for flexible and customized patch panel design. They are compatible with most industry standard connections: ST compatible, SC, 568SC, MT-RJ, LC and FC.
Available in grey and black, the Fiber*Express* wall mount patch panels have an ergonomic design, rugged construction and compact assemblies to effectively protect your optical fiber terminations and splices.

Description	Belden Part Number
Fiber*Express* Patch Panels	
Wall Mount	
Small, Grey	**AX100496**
Small, Black	**AX100495**
Medium, Grey	**AX100541**
Medium, Black	**AX100540**
Large, Grey	**AX100543**
Large, Black	**AX100542**

If optical single-ended patch cords are to be spliced to the fiber cable, don't forget to order splice organizer trays or kits in Fiber*Express* accessories section. Universal adapter strips can be ordered in Fiber*Express* patch panels section.
These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

AX100541 Medium Wall Mount



AX100495 Small Wall Mount



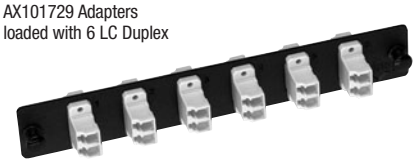
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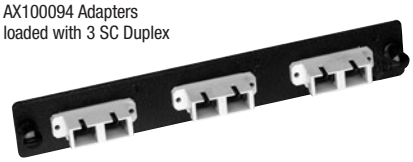
Fiber*Express* Patch Panels Accessories

Universal Optical Fiber Adapter Strips and Accessories

AX101729 Adapters
loaded with 6 LC Duplex



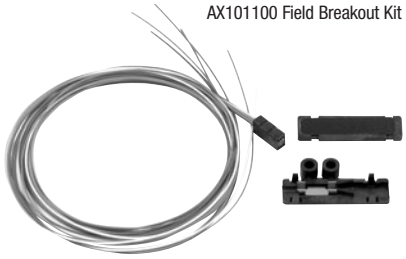
AX100094 Adapters
loaded with 3 SC Duplex



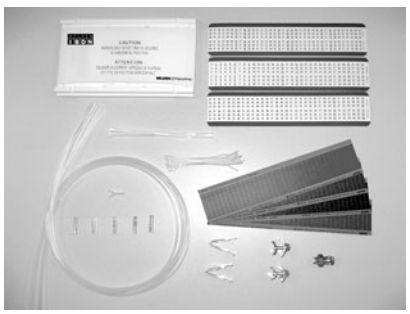
AX100066 Blank Strip



AX101100 Field Breakout Kit



A0649869 Optical Fiber Splice Organizer Kits and Trays

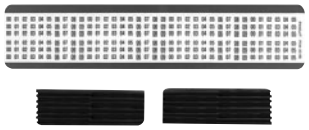




AX100945 Flex Kit



AX101098 Splice Holder Kit



Optical Fiber Adapter Strips

Universal optical fiber adapter strips are pre-loaded with six (single density) or 12 (double density) adapter sleeves. Two types of adapter sleeves are available: phosphor bronze and zirconia ceramic. Adapter sleeves are used as the connecting interface between two optical fiber connectors. A blank adapter strip is also available and can be used with any Fiber*Express* patch panel to fill in unused adapter strip openings.

Optical Fiber Accessories

The field breakout kit is designed to attach to one tube of a loose-tube cable. Each kit has either six or twelve 900 µm tubes that hold each of the coated fibers. For each end of the cable, one kit is needed for every tube. For example, a 12-fiber 62.5 µm cable contains two 6-fiber tubes. This cable would require four kits, two for each end. Optical fiber splice organizer kits provide the accessories necessary for installing the Fiber*Express* fiber patch panels, as well as other fiber terminals that accommodate the standard Belden organizer tray. The Flex Kit contains tubes and manifolds designed to split cables into individual fiber strands, and is suitable for 6 fibers up to 12 fibers. It is necessary for use with loose tube cables or when the fiber cable count does not match the number of connections in the Fiber*Express* manager connector module. The Flex Kit tubes help to maintain proper fiber bend radius. One kit is required per 12 modules (one 19″/0.48 m shelf). A splice holder kit can be used to hold fusion or mechanical splices. Each splice holder can handle up to 6 splices.

Description	Belden Part Number	
	Phosphor Bronze, Multimode	Zirconia Ceramic, Single-Mode
Fiber*Express* Optical Fiber Adapter Strips		
Single Density, Black		
Loaded with 6 ST Compatible Adapters	**AX100088**	**AX100534**
Loaded with 3 SC Duplex Adapters	**AX100094**	**AX101407**
Loaded with 6 SC Simplex Adapters	**AX100092**	**AX100538**
Loaded with 6 FC Adapters	**AX100090**	**AX100536**
Loaded with 6 LC Duplex Adapters	**AX101729**	**AX101731**
MT-RJ, loaded with 6 MT-RJ, Multimode/Single-mode	**AX101115**	
Double Density, Black		
Loaded with 12 ST Compatible Adapters	**AX100080**	**AX100528**
Loaded with 6 SC Duplex Adapters	**AX100098**	**AX101409**
Loaded with 12 SC Simplex Adapters	**AX100084**	**AX100532**
Loaded with 12 FC Adapters	**AX100082**	**AX100530**
Loaded with 12 LC Duplex Adapters	**AX101741**	**AX101743**
MT-RJ, loaded with 12 MT-RJ, Multimode/Single-mode	**AX101117**	
Blank Strip		
Black	**AX100066**	
Fiber*Express* Accessories		
Optical Fiber Field Breakout Kit		
6 fibers, 1/pack	**AX101100**	
12 fibers, 1/pack	**AX101101**	
Optical Fiber Splice Organizer Kit		
Splice kit, tray, 203 mm (8″)	**A0649869**	
Splice kit, tray, 305 mm (12″)	**A0318904**	
Optical Fiber Splice Tray		
Fusion, 203 mm (8″)	**A0335015**	
Fusion, 305 mm (12″)	**A0316446**	
Universal (mechanical or fusion), 203 mm (8″)	**AX100079**	
Universal (mechanical or fusion), 305 mm (12″)	**A0394328**	
Tray cover, 203 mm (8″)	**A0394331**	
Tray cover, 305 mm (12″)	**A0394330**	
Flex Kit	**AX100945**	
Splice Holder Kit	**AX101098**	

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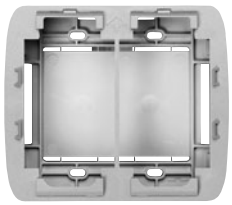
Fiber*Express* Outlets

MediaFlex Plates and Inserts

AX101869 MediaFlex Plate, Double Gang



AX101874 MediaFlex Adapter Box, Double Gang



AX101756 MediaFlex MDVO (style) Insert, 2-port, Angled



AX101937 MediaFlex SC Duplex Insert, Angled



MediaFlex Plate

MediaFlex plates are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets. MediaFlex plates can be mounted over standard NEMA type outlet boxes and rings to provide support for a variety of MediaFlex adapters and inserts. The fully modular construction combined with the front access design provides extensive configuration flexibility for current and future network needs. MediaFlex plates are available in single gang and double gang configurations.

The double gang faceplate comes with a stand-off ring included in the package. This ring allows for easy mounting with virtually any industry electrical box or mud/adapter rings, therefore providing added installation flexibility. Each plate has the capacity of up to 6 ports per single gang and 12 ports per double gang.

MediaFlex Adapter Box

MediaFlex surface adapter boxes are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets.
MediaFlex surface adapter boxes can be mounted over standard NEMA type outlet boxes and rings to provide support for the MediaFlex plates. The MediaFlex surface adapter boxes are available as a double gang configuration. The double gang box allows more room for cable management and bend radius control.

MediaFlex MDVO (style) Insert

MediaFlex MDVO-style Inserts are available in a 2-port configuration in both Flush and Angled versions. They are compatible with all GigaFlex and MDVO modules (EZ-MDVO and multimedia). The inserts are two units high for the flush version and three units high for the angled version. Therefore three flush inserts or two angled inserts are required to fully populate a single gang MediaFlex plate.

MediaFlex Multimedia Insert

MediaFlex multimedia inserts provide optimum flexibility in configuring multimedia workstation outlets that respond to any present or future network needs. MediaFlex multimedia inserts along with other MediaFlex inserts allow for easy configuration of outlets. All inserts are front loaded and easily snapped in and out of the MediaFlex plates for easy installation and maintenance.

MediaFlex multimedia Inserts are available in angled versions only in order to allow for proper management of cable bend radius. The inserts are three units high, therefore two inserts are required to fully populate a single gang faceplate and four inserts will fully populate a double gang faceplate.

Description	Belden Part Number					
	K1, Red	K2, Green	K3, Yellow	K4, Black	K5, Orange	K6, Blue
Fiber*Express* Outlets						
MediaFlex Plate						
Single Gang	AX101745	AX101746	AX101747	AX101748	AX102608	AX102569
Double Gang	AX101869	AX101870	AX101871	AX101872	AX102609	AX102570
MediaFlex Adapter Box						
Single Gang	AX102480	AX102481	AX102482	AX102483	AX102484	AX102485
Double Gang	AX101873	AX101874	AX101875	AX101876	AX102610	AX102571
MediaFlex MDVO (style) Insert						
2-port, Flush, bag of 10 units	AX101749	AX101750	AX101751	AX101752	AX102612	AX102572
2-port, Angled, bag of 10 units	AX101753	AX101754	AX101755	AX101756	AX102613	AX102573
MediaFlex SC Duplex						
SC Duplex Single-mode	AX101935	AX101936	AX101937	AX101938	AX102619	AX102649
SC Duplex Multimode	AX101939	AX101940	AX101941	AX101942	AX102620	AX102650

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Fiber*Express* Outlets

MDVO Multimedia Outlet Boxes & Modules and Multi-User Outlet Boxes

A0643205 MDVO Multimedia Outlet Box, shown here as terminated



MDVO Multimedia Outlet Box

The MDVO multimedia outlet box brings unique versatility for multimedia work area installations. The box design provides cable management and helps maintain cable bend radius. The low-profile design and side-entry of the outlet box offer better protection for patch cords. The outlet box can accept up to six EZ-MDVO, GigaFlex or MDVO multimedia modules or three SC duplex adapters.

The MDVO multimedia outlet box can be mounted directly on the wall or attached to standard electrical boxes. Included with the MDVO multimedia box are three SC duplex mounting bezels and three MDVO adapters.

MDVO Multimedia Modules

MDVO multimedia modules address audio/video and fiber applications. Fiber modules are available for LC duplex, SC simplex, ST compatible multimode and MT-RJ multimode & single-mode connections. The SC duplex adapter is a fiber adapter sleeve with flanges that mounts into the SC duplex mounting bezel (included in the MDVO multimedia outlet box). Audio/video modules are available for SVHS, RCA, BNC and Video F connections.

A0407005 MDVO SC Fiber Module



Multi-User Outlet Box

The multi-user outlet box is a versatile box that can be used in many different applications. The outlet box can accommodate up to 24 connections of any type, UTP, fiber or coax. The outlet box is ideal for use as a multi-user telecommunications assembly, or simply as a high-density multimedia telecommunications outlet. The multi-user outlet box can also be used as a wall mounted patch panel in confined areas, such as shallow rooms and cabinets.

A0649254 SC Duplex Adapter



Description	Belden Part Number			
	MOVO-Style	MOVO-Style	MOVO-Style	Keystone-Style
Fiber*Express* Outlets				
MDVO Multimedia Outlet Box				
6-port	**A0643205**	**A0643206**	**A0643207**	**A0643208**

Please note that SC Duplex adapters must be ordered separately (A0649254).

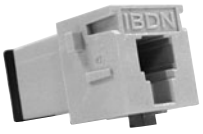
A0407010 MDVO ST Compatible Fiber Module



MDVO Multimedia Module				
LC Duplex Multimode	**AX102209**	**AX102210**	**AX102211**	**AX102212**
LC Duplex Single-mode	**AX102213**	**AX102214**	**AX102215**	**AX102216**
SC Simplex, Multimode, Blue insert	**A0407003**	**A0407004**	**A0407005**	**A0407006**
SC Duplex Adapter, Multimode	–	**A0649254**	–	–
ST Compatible, Multimode	**A0407007**	**A0407008**	**A0407009**	**A0407010**
MT-RJ, Multimode	–	**AX101467**	–	–
MT-RJ, Single-mode, Blue	–	**AX101466**	–	–

Custom multimedia connectors are also available, please contact customer service for more details.

AX101467 MDVO MT-RJ Fiber Module



Multi-User Outlet Box				
24-port	**AX100219**	**AX100220**	**AX100221**	**AX100222**

These products are in the process of being assessed for RoHS compliance.
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AX100222 Multi-User Outlet Box, shown here with modules



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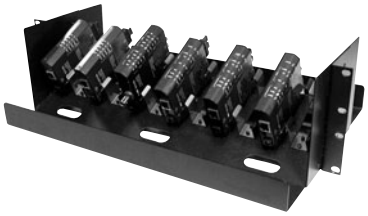
Network Connectivity Products

Media Converters, Transceivers & Hubs and Network Tester

Media Converters



AX-1912 Media Converter Rack



AX050, 70 and 80 Transceivers and AX-509 Ethernet Hub



AX-110BT Realtime 10/100 Base-TX Ethernet Network Test Unit



Media Converters for Ethernet and Fast Ethernet

Media converters enable the connection of dissimilar network cabling types, while maintaining the same network speed. A legacy thinnet segment can be connected to a 10Base-T Hub or switch port with an AX-200 Converter or, link two different 10Base-T networks together over a multimode fiber optic link with a pair of AX-270s. Connect a legacy thinnet segment over fiber with the AX-280 converter. The AX-5270 can be used for interbuilding links or attached to a fiber backbone.

Transceivers and Ethernet Hubs

The AX-50, 70 and 80 transceivers enable the connection of a legacy AUI port to 10Base-T, Thinnet, or Fiber Optic media. The transceiver is powered from the host and requires no external power supply. The AX-509 Ethernet Hub has an AUI port which accepts UTP, Fiber Optic or BNC transceivers. Specified for use by many U.S. Government Agencies. Includes a 110v/12v power supply.

Realtime 10/100 Base-TX Ethernet Network Test Unit

The AX-110BT realtime 10/100 Base-TX ethernet network test unit is a cost effective way to quickly determine a network's operating condition. Plug the unit's patch cord into the tester, then into any open RJ-45 jack in an office, cubicle or conference room. Immediately see if the jack is a live network node capable of either 100 Mb/s or 10 Mb/s. Next check patch cord continuity and polarity. Connect the downlink to a PC to check NIC card link, speed and full or half duplex capabilities. Connect the uplink to a hub or switch port to verify link and speed.

Description	Belden Part Number
Network Connectivity Products	
Media Converter	
10Base-T/10Base2, RJ-45 to BNC	**AX-200**
10Base-T/10Base-FL, RJ-45 to ST-Compatible fiber connectors	**AX-270**
10Base2/10Base-FL, BNC to ST-Compatible fiber connectors	**AX-280**
100Base-TX/100Base-FX, SC-Compatible fiber connectors	**AX-5270SC**
100Base-TX/100Base-FX, ST-Compatible fiber connectors	**AX-5270ST**
Media Converter Rack	
Holds up to 12 converters and multi lead power supplies, 19″ (0.48 m) rack-mount ready	**AX-1912-MCR**
Power Supply, 4-lead 110v/12v, powers up to 4 converters	**AX-270P4U**
Power Supply, 8-lead 110v/12v, powers up to 8 converters	**AX-270P8U**
Transceivers and Ethernet Hubs	
UTP Transceiver, 10Base-T, AUI to RJ-45, side port	**AX-50**
UTP Transceiver, 10Base-T, AUI to RJ-45, rear port	**AX-50R**
Fiber Transceiver, 10Base-FL, AUI to ST-Compatible	**AX-70**
Thinnet Transceiver, 10Base2, AUI to BNC	**AX-80**
Ethernet Hub with 8 RJ-45 10Base-T ports and 1 AUI port	**AX-509**
Network Tester	
Realtime 10/100 Base-TX Ethernet Network Test Unit	**AX-110BT**

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Introduction Cables

Advanced Networks Need Advanced Technology

Today's advanced networks are diverse and very varied and almost always complex. The right way ahead is to future-proof these networks and take precautions to protect them against anything that will create problems, damage or disrupt. That means matching the right hardware with the right cabling to guarantee performance – and that means choosing fiber optic cable. This type of cable has become essential for bringing light-speed communication to hospitals, corporate campuses, educational facilities and other projects.

Key Applications

- Closed circuit television
- Network circuitry
- Factory automation
- Major commercial networks
- Video conferencing
- Medical imaging
- CAD/CAM

Special Features

- **Interconnect Cables**
  Featuring semi-tight buffer and tight buffer technology for easy cable preparation during termination.
  - Semi-tight buffered fiber cables are available in dry or jelly-filled constructions; both have excellent strippablility properties (≤ 100 cm).
  - Tight-buffered fiber cables are dry constructions and designed for easy stripping in cable preparation (≤ 10 cm).

- **Breakout Cables (BO)**
  Breakout cables are the preferred choice for direct termination methods. Each numbered fiber subunit is protected by a layer of aramid yarn and encased in a FRNC/LSNH jacket. The individual subunits are cabled and then jacketed with a flame resistant FRNC/LSNH compound. Each fiber uses either the tight buffer technology or semi-tight buffer technology for excellent fiber stripping.

- **Belden's Mini-Breakout**
  This cables offer dry constructions with semi-tight or tight buffer technology for easier fiber stripping during cable preparation. They are perfect for both indoor and indoor/outdoor use.

- **Mobile Fiber Cables**
  Mobile fiber cable is a special cable in the range is Belden's mobile fiber cable. The semi-tight buffer technology is designed for rugged field applications and will withstand temperature extremes and vehicle traffic. Repeating bending is > 500000 times according to IEC 60794-1-2-E6. For indoor use, it has flame retardancy acc. IEC 60332-2.

- **Central Loose Tube Cables (CLT)**
  Central loose tube cables are designed either for indoor/outdoor application or outdoor use only as direct burial, duct and outside tray. For better performance, Belden only uses (non-dripping and silicone-free) jelly-filled loose tubes. The central loose tube series has a polyethylene or halogen-free jacket. These cables have been updated with a longitudinal watertightness swellable yarn for weather-resistance.
  - Standard and improved rodent protection designs are available with up to 24 fiber counts.
  - Central loose tube cables are also available with Corrugated Steel Tape (CST), Steel Wire Armor (SWA) or Fiber Reinforced Plastic armor (FRP) to protect the whole cable from mechanical damage and rodents.

- **Multi Loose Tube Cables (MLT)**
  Multi loose tube cables, with no aquagel between the tubes (dry core) or with jelly-filled cable core, are designed for direct burial, duct, outside tray and aerial applications. For better performance, Belden only uses (non dripping and silicone-free) jelly-filled loose tubes. Tubes and (when necessary) blind elements are S-Z stranded around the central element. The multi loose tube series has a High-Density-Polyethylene (HDPE) or halogen-free jacket. These cables have been updated with water-blocking aramid or glass yarn. Standard and improved rodent protection designs are available with high fiber counts up to 432 fibers.
  - The multi loose tube cables are also available either with Corrugated Steel Tape armor (CST) or with galvanized Steel Wire Armor (SWA) for total protection.
  - Longitudinal watertightness: to guarantee longitudinal watertightness acc. to IEC 60793-1-2-F5, Belden uses swellable yarns and/or tapes or filling compound.

  Options:
  - All loose tube cables with additional PA (nylon) jacket for termite/rodent protection, improved chemical resistance and reduced friction.
  - Replace PE jacket by Orgalloy to improve chemical resistance.

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Introduction Cables

- **Belden's Universal Cables**
  Belden's universal cables provide a unique combination of construction and performance characteristics that make them ideal for both outdoor and indoor use. The advantage is that splicing is not necessary when running cable from outside to inside.
  - Because all fibers show surface imperfections, Belden exclusively uses fibers with proof test-level ≥ 8.8 N/≥ 1% (≥ 100 kpsi). This means the expected life of the optical fiber cable is > 30 years.

- **Belden Halogen-Free Optical Fiber Cables**
  This cables meet the most important international standards. The jacketing material is suitable for outdoor use, such as direct burial. Compared with other products containing halogens (such as PVC), Belden halogen-free materials offer considerable advantages in the event of a fire:
  - Better vision
  - Minimal poisonous gases
  - No release of highly caustic acids
  - Greater safety for people, materials and the environment

  Belden's halogen-free optical fiber cables are both FRNC (Flame-Retardant, Non-Corrosive) and LSNH (Low-Smoke, Non-Halogen) according to recognized standards.

- **Direct Burial Cables**
  In general loose tube cables are suitable for direct burial. However, in case of rocky soil armored cables are recommended.

- **Belden Optical Fiber Cables**
  All cable constructions are in accordance with IEC 60793, and have been tested according to IEC 60794.

Rodent Protection

The Belden fiber optic cable line offers two different kind of rodent protection:

- Standard Rodent Protection
  Optical fiber cables with glass reinforced yarns for strength also provide normal protection against rodents.

- Improved Rodent Protection
  Belden offers cables with improved rodent protection. These have extra glass reinforced yarns or an extra layer of nylon (polyamide). The idea behind this is that rodents will look for the easiest route. Rodents will bite anything in order to keep their teeth in proper shape but will only continue if they feel comfortable. With the nylon layer or "glass" yarns they will normally stop and move elsewhere.

It is important to note that non-armored cable never guarantees a 100% protection against rodents.

Armored cables (CST, SWA, FRP) are heavy rodent protected.

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Introduction Cables

Guide to Installation and Handling

General

When laying and installing optical fiber cables it is vitally important not to exceed the specified values set for pulling tension, bending radii and temperature. The installation methods have to be in accordance with the common standards.

If a cable needs to be fastened, constrictions ≥ 1 mm (multi-tube cable) or ≥ 0.3 mm (central-tube cable, distribution cable) must be prevented.

Outdoor/Universal Cables

It is advisable to cap the cable-ends during outdoor storage.

- **Outdoor/Universal Loose Tube Cables**
  - To ease insertion into tubes by means of compressed air or pulling wire, certified lubricants (e.g. paraffin) may be used. The use of soap or similar substances as lubricants is strictly prohibited.
  - The jelly-filling inside the tubes can be removed using a tissue soaked in turpentine.

Indoor Cables

Indoor optical fiber cables have been designed for use inside buildings. Consequently they are not longitudinally watertight.

- **Indoor Interconnection (Simplex, Duplex) Cables**
  - In cable with jelly-filled semi-tight buffered optical fibers the primary and secondary coating are separated by means of a very thin layer of jelly. Consequently the strippability is very good. If necessary the jelly can be removed using a tissue soaked in turpentine, for example.
  - Interconnection optical fiber cables have been designed for short distance applications (tens of meters) inside buildings.
- **Pigtails**
  (Semi-) Tight-buffered optical fibers have been designed for short distance (≤ 10 m) applications

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Introduction Cables

Part Number Coding (exept Plenum Optical Fiber)

1	2	Product	3	Type	4	Construction	5	Quality	6	Fiber Count (mm)	7	Fiber Count
G	A	Messenger figure 8	A	Aramid	A	CLT T12 [1x12]	1	62.5/125-OM1	A	Simplex Duplex 1.6 mm		
	B	Outdoor Dry MLT	B	Breakout	B	CLT T24 [1x24]	2	50/125-OM2	B	Simplex Duplex 1.8 mm		
	C	Universal Dry MLT	C	CST Single sheath	C	MLT T48 [6x8] (helical)	3	50/125-OM3	C	Simplex Duplex 2.0 mm		
	D	Outdoor Filled MLT	D	CST Double Sheath	D	MLT T72 [6x12]	4	50/125-OM2e	D	Simplex Duplex 2.4 mm		
	E	Universal Filled MLT	F	FRP	E	MLT T96 [8x12]	5	50/125-OM2	E	Simplex Duplex 2.8 mm		
	I	Indoor	L	AL/PE Sheath	F	MLT T144 [12x12]	6	50/125-OM3+	F	Simplex Duplex 3.0 mm		
	M	Mobile	M	Mini-Breakout	G	MLT T36 [6x6]	7	9/125-G655	0-9	Part of Fibercount	0-9	Part of Fibercount
	O	Outdoor Dry	O	Pigtail	H	MLT T24 [6x4]	8	9/125-G652D				
	U	Universal Dry	P	Patchcord	I	MLT T192 [8x24]	9	9/125-G652B				
			R	Improved RP	J	MLT T288 [12x24]	0	No Fiber, APF				
			S	Standard RP	K	Semi-Tight (dry)						
			X	Mini-BO+RP	L	MLT T432 [18x24]						
			W	SWA	M	MLT T216 [18x12]						
					S	Semi-Tight (Jelly-Filled)						
					T	Tight						

RP = Rodent Protection • SWA = Galvanised Steel Wire Armor • CST = Corrugated Steel Tape • FRP = Fiber Reinforced Plastic Armor

To specify Part Number

1. Example: GIBT412

1	2	3	4	5	6	7
G	I	B	T	4	1	2
Fiber	Indoor	Breakout	Tight Buffer	50/125-OM2e	12	

2. Example: GDDF744

1	2	3	4	5	6	7
G	D	D	F	7	4	4
Fiber	MLT Outdoor Filled SZ	CST Double Sheat	MLT144 (12x12)	9/125-G655	144	

Optical Characteristics

European Part Number Coding (position 5)	Fiber-Type	Mode-Field Diameter/Cladding Diameter (µm)	Wavelength (nm)	Dispersion (ps/(nm•km))	PMD (ps/√km)	Cable Cut-off Wavelength (nm)	Refractive Index	Attenuation	
								Loose Tube Cables average/max. (dB/km)	(Semi-) Tight average/max. (dB/km)
Characteristics (Cabled) Single-Mode – Matched-Cladded Optical Fibers according to ITU-G.652									
9	9/125-OS1 ITU-G.652B	9.2 ± 0.4 125 ± 1	1310 1550	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260	1.467 1.467	0.32/0.4 0.21/0.3	0.35/0.5 0.21/0.3
8	9/125-OS1 ITU-G.652D	9.2 ± 0.4 125 ± 0.7	1310 1550	≤ 3.5 ≤ 18	≤ 0.2	≤ 1260	1.467 1.467	0.32/0.4 0.21/0.3	0.35/0.5 0.21/0.3
Characteristics (Cabled) Single-Mode – Matched-Cladded Optical Fibers According to ITU-G.655									
7	9/125	8.4 ± 0.6/125 ± 1	1550	3.5 - 8.5	≤ 0.1[A]	≤ 1260	1.470	0.25/0.3	0.25/0.28

Note A: Link design value

European Part Number Coding (position 5)	Fiber-Type	Core/Cladding Diameter (µm)	Wavelength (nm)	Bandwidth (MHz•km)	Ethernet Performance (m)		Numerical Aperture (µm)	Refractive Index	Attenuation	
					1GbE	10GbE			Loose Tube Cables average/max. (dB/km)	(Semi-) Tight average/max. (dB/km)
Characteristics (Cabled) Multimode – Graded-Index Optical Fibers According to IEC 60793										
1	62.5/125 OM1	62.5 ± 2.5 125 ± 1	850 1300	≤ 200 ≤ 600	275 550	33 N.A.	0.275 ± 0.015	1.495 1.490	2.7/3.2 0.6/1.1	3.0/3.2 0.7/0.9
5	50.0/125 OM2	50.0 ± 2.5 125 ± 1	850 1300	≤ 500 ≤ 500	600 600	82 N.A.	0.200 ± 0.015	1.481 1.476	2.4/3.0 0.7/1.0	2.6/2.8 0.6/0.9
2	50.0/125 OM2	50.0 ± 2.5 125 ± 1	850 1300	≤ 600 ≤ 1200	600 600	82 N.A.	0.200 ± 0.015	1.481 1.476	2.3/2.8 0.6/0.9	2.6/2.8 0.6/0.9
4	50.0/125 OM2e	50.0 ± 2.5 125 ± 1	850 1300	≤ 600 ≤ 1200	750 2000	110 N.A.	0.200 ± 0.015	1.481 1.476	2.3/2.8 0.6/0.9	2.6/2.8 0.6/0.9
3	50.0/125 OM3	50.0 ± 2.5 125 ± 1	850 1300	≤ 1500 ≤ 500	900 550	300 N.A.	0.200 ± 0.015	1.482 1.477	2.5/3.0 0.5/1.0	2.6/2.8 0.6/0.9
6	50.0/125 OM3+	50.0 ± 2.5 125 ± 1	850 1300	≤ 3500 ≤ 500	900 550	550 N.A.	0.200 ± 0.015	1.482 1.477	2.5/3.0 0.5/1.0	2.6/2.8 0.6/0.9

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Introduction Cables

Cable Finder Guide Optical Fibers

Part No.	Description	Buffer	Con-struction	Remarks	Fiber Size µm	Application	VDE	Page
Intex, Indoor and Mobile Cables with (Semi-) Tight-Buffered Optical Fibers								
Interconnect Cables								
GIOK	Pigtails	Semi-Tight	Dry	Excellent Strippability, LSNH	245	Indoor	I-K	16.25
GIPS	Simplex	Semi-Tight	Jelly-Filled	Excellent Strippability, FRNC/LSNH	245	Indoor	I-W(ZN)H	16.25
GIPS	Simplex, furcation tube	–	Dry	Empty Tube, PUR	–	Indoor	–	16.32
GIPS	Duplex	Semi-Tight	Jelly-Filled	Excellent Strippability, FRNC/LSNH, Figure 8	245	Indoor	I-W(ZN)H	16.26
GIPK	Heavy Duplex	Semi-Tight	Dry	Excellent Strippability, FRNC/LSNH, flat	245	Indoor	I-K(ZN)HH	16.26
GIPT	Mini-Zip	Tight	Dry	FRNC/LSNH, Figure 8	280	Indoor	I-V(ZN)H	16.27
Breakout Cables								
GIBT	2-24 Fibers	Tight	Dry	FRNC/LSNH	280	Indoor	I-V(ZN)HH	16.28
GIBK	2-12 Fibers	Semi-Tight	Dry	FRNC/LSNH	245	Indoor	I-K(ZN)HH	16.28
Mini-Breakout Cables (Distribution)								
GIMT	2-24 Fibers	Tight	Dry	FRNC/LSNH	280	Indoor	I-V(ZN)H	16.29
GIMK	2-8 Fibers	Semi-Tight	Dry	FRNC/LSNH	245	Indoor	I-K(ZN)H	16.29
GUMT	4-24 Fibers	Tight	Dry	FRNC/LSNH	280	In/Outdoor	A/I-VQ(ZN)H	16.30
GUXT	4-24 Fibers	Tight	Dry	FRNC/LSNH, Improved Rodent Protection	280	In/Outdoor	A/I-VQ(ZN)BH	16.31
GMMT	4-8 Fibers	Tight	Dry	Intex Mobile, PUR	280	In/Outdoor	A/I-VQ(ZN)11Y	16.32
Universal and Outdoor Cables with Loose Tubes								
Central Loose Tube Cables (CLT)								
GOSA	2-12 Fibers	–	Dry	PE, Standard Rodent Protection	250	Outdoor	A-DQ(ZN)2Y	16.33
GOSB	2-24 Fibers	–	Dry	PE, Standard Rodent Protection	250	Outdoor	A-DQ(ZN)2Y	16.33
GORA	2-12 Fibers	–	Dry	PE, Improved Rodent Protection	250	Outdoor	A-DQ(ZN)B2Y	16.34
GORB	2-24 Fibers	–	Dry	PE, Improved Rodent Protection	250	Outdoor	A-DQ(ZN)B2Y	16.34
GOFB	2-24 Fibers	–	Dry	PE, Full Rodent Protection, Armored (FRP)	250	Outdoor	A-DQB2Y (FRP1.0)	16.35
GOWB	2-24 Fibers	–	Dry	Double PE, Full Rodent Protection, Armored (SWA)	250	Outdoor	A-DQ(ZN)2YB2Y (R0.63vzk)	16.35
GOCB	2-24 Fibers	–	Dry	PE, Full Rodent Protection, Armored (CST)	250	Outdoor	A-DQ(ZN)(SR)2Y	16.36
GODA	2-12 Fibers	–	Dry	Double PE, Full Rodent Protection, Armored (CST)	250	Outdoor	A-DQ(ZN)2Y(SR)2Y	16.36
GODB	2-24 Fibers	–	Dry	Double PE, Full Rodent Protection, Armored (CST)	250	Outdoor	A-DQ(ZN)2Y(SR)2Y	16.36
GUSA	2-12 Fibers	–	Dry	FRNC/LSNH, Standard Rodent Protection	250	In/Outdoor	A/I-DQ(ZN)H	16.37
GUSB	2-24 Fibers	–	Dry	FRNC/LSNH, Standard Rodent Protection	250	In/Outdoor	A/I-DQ(ZN)H	16.37
GURA	2-12 Fibers	–	Dry	FRNC/LSNH, Improved Rodent Protection	250	In/Outdoor	A/I-DQ(ZN)BH	16.38
GURB	2-24 Fibers	–	Dry	FRNC/LSNH, Improved Rodent Protection	250	In/Outdoor	A/I-DQ(ZN)BH	16.38
GUCB	2-24 Fibers	–	Dry	FRNC/LSNH, Full Rodent Protection, Armored (CST)	250	In/Outdoor	A/I-DQ(ZN)(SR)H	16.39
GUWB	2-24 Fibers	–	Dry	Double FRNC/LSNH, Full RP, Armored (SWA)	250	In/Outdoor	A/I-DQ(ZN)HBH (R0.63vzk)	16.40
GUDA	2-12 Fibers	–	Dry	Double FRNC/LSNH, Full RP, Armored (CST)	250	In/Outdoor	A/I-DQ(ZN)H(SR)H	16.39
GUDB	2-24 Fibers	–	Dry	Double FRNC/LSNH, Full RP, Armored (CST)	250	In/Outdoor	A/I-DQ(ZN)H(SR)H	16.39
Multi Loose Tube Cables (MLT)								
GBA	4-432 Fibers	–	Dry	HDPE	250	Outdoor	A-DQ(ZN)2Y	16.41
GDA	4-432 Fibers	–	Filled	HDPE	250	Outdoor	A-DF(ZN)2Y	16.42
GBR	4-432 Fibers	–	Dry	HDPE, Improved Rodent Protection	250	Outdoor	A-DQ(ZN)B2Y	16.43
GDR	4-432 Fibers	–	Filled	HDPE, Improved Rodent Protection	250	Outdoor	A-DF(ZN)B2Y	16.44
GBD	4-432 Fibers	–	Dry	HDPE, Full Rodent Protection, Armored (CST)	250	Outdoor	A-DQ(ZN)2Y(SR)2Y	16.45
GDD	4-432 Fibers	–	Filled	HDPE, Full Rodent Protection, Armored (CST)	250	Outdoor	A-DF(ZN)2Y(SR)2Y	16.46
GBW	4-432 Fibers	–	Dry	HDPE, Full Rodent Protection, Armored (SWA)	250	Outdoor	A-DQ2YB2Y (R1.0vzk)	16.47
GDW	4-432 Fibers	–	Filled	HDPE, Full Rodent Protection, Armored (SWA)	250	Outdoor	A-DF2YB2Y (R1.0vzk)	16.48
GALH	4-24 Fibers	–	Filled	PE, Steel Wire Messenger, Figure 8	250	Aerial-Outdoor	A-DSF(L)2YT	16.49
GALD	12-72 Fibers	–	Filled	PE, Steel Wire Messenger, Figure 8	250	Aerial-Outdoor	A-DSF(L)2YT	16.49
GAAD	12-72 Fibers	–	Filled	PE, Dielectric Messenger, Figure 8	250	Aerial-Outdoor	A-DF(ZN)2YT	16.50
GCA	4-432 Fibers	–	Dry	LSZH	250	In/Outdoor	A/I-DQ(ZN)H	16.51
GEA	4-432 Fibers	–	Filled	LSZH	250	In/Outdoor	A/I-DF(ZN)H	16.52
GCR	4-432 Fibers	–	Dry	LSZH, Improved Rodent Protection	250	In/Outdoor	A/I-DQ(ZN)BH	16.53
GER	4-432 Fibers	–	Filled	LSZH, Improved Rodent Protection	250	In/Outdoor	A/I-DF(ZN)BH	16.54
GCD	4-432 Fibers	–	Dry	LSZH, Full Rodent Protection, Armored (CST)	250	In/Outdoor	A/I-DQ(ZN)H(SR)H	16.55
GED	4-432 Fibers	–	Filled	LSZH, Full Rodent Protection, Armored (CST)	250	In/Outdoor	A/I-DF(ZN)H(SR)H	16.56
GCW	4-432 Fibers	–	Dry	LSZH, Full Rodent Protection, Armored (SWA)	250	In/Outdoor	A/I-DQHBH (R1.0vzk)	16.57
GEW	4-432 Fibers	–	Filled	LSZH, Full Rodent Protection, Armored (SWA)	250	In/Outdoor	A/I-DFHBH (R1.0vzk)	16.58

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Introduction Cables

Color Codes

Interconnect Cables

Fiber No.	Color (Sec. Coating)
SM 9/125	Yellow
MM 50/125	Green
MM 62.5/125	Blue

Breakout Cables

Fiber No.	Color (Sub-unit Jacket)
1-24 (MM)	Orange
1-24 (SM)	Yellow

Mini-Breakout Cables

Fiber No.	Color (Sec. Coating)
1	White
2	Red
3	Blue
4	Yellow
5	Green
6	Violet
7	Brown
8	Black
9	Orange
10	Turquoise
11	Pink
12	Grey

Fiber No.	Color (Prim. Coating*)
13	White
14	Red
15	Blue
16	Yellow
17	Green
18	Violet
19	Brown
20	Black
21	Orange
22	Turquoise
23	Pink
24	Grey

* secondary coating is transparent

Central Loose Tube Cables*

Fiber No.	Color
1	Red
2	Green
3	Blue
4	Yellow
5	White
6	Grey
7	Brown
8	Violet
9	Turquoise
10	Black
11	Orange
12	Pink

Fiber No.	Color
13	Red/Black
14	Green/Black
15	Blue/Black
16	Yellow/Black
17	White/Black
18	Grey/Black
19	Brown/Black
20	Violet/Black
21	Turquoise/Black
22	Natural/Black
23	Orange/Black
24	Pink/Black

* fiber color code according to IEC 60304; different color coding available on request

Multi Loose Tube Cables*

Fiber No.	Color
1	Red
2	Green
3	Blue
4	Yellow
5	White
6	Grey
7	Brown
8	Violet
9	Turquoise
10	Black
11	Orange
12	Pink

Fiber No.	Color
13	Red/Black
14	Green/Black
15	Blue/Black
16	Yellow/Black
17	White/Black
18	Grey/Black
19	Brown/Black
20	Violet/Black
21	Turquoise/Black
22	Natural/Black
23	Orange/Black
24	Pink/Black

* fiber color code according to IEC 60304; different color coding available on request

Color Code Tubes

Tube No.	Color
1	Red
2	Green
Rest	White

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Introduction Cables

Cable Selection Guide Plenum

Optical Fiber Selection

Type	Grade	Fiber Size (µ)	Standards Compliance	Link Length (m)	Data Rate (Gb)
Multimode	6	50/125	exceeds TIA/EIA-568-B.3-1 ISO 11801 OM3	500	10
	5	50/125	TIA/EIA-568-B.3-1 ISO 11801 OM3	300	10
	4	50/125	TIA/EIA-568-B.3	600	1
	3	62.5/125	TIA/EIA-568-B.3	1000	1
	2	62.5/125	TIA/EIA-568-B.3	550	1
	1*	62.5/125	FDDI grade †	–	–
Single-mode	–	–	ITU G.652.c/d ††	–	–

* Grade 1 fibers are available upon request.
† Used in most current cable plants, but not recommended for future installations, except as patch cordage.
†† Low water peak fiber with advantages for CWDM applications.

Color Code Charts

Jacket Color Chart

Cable Type	Jacket Color
Loose Tube & Outside Plant Cables	Black
Industrial Tray Cables	Orange
Tight-Buffered Cables	
Grades 2, 3, 4	Orange
Grades 5, 6	Aqua
Single-mode	Yellow

Nonstandard jacket colors are available upon request.

Fiber Sub-Unit Color Code Chart*

Fiber/Tube No.	Color	Fiber/Tube No.	Color
1	Blue	**7**	Red
2	Orange	**8**	Black
3	Green	**9**	Yellow
4	Brown	**10**	Violet
5	Slate	**11**	Rose
6	White	**12**	Aqua

* Per EIA/TIA 598-A

Optical Specifications

Grade:	2	3	4	5	6	Single-Mode Enhanced[6]
Glass Type:	62.5/125 µ	62.5/125 µ	50/125 µ	50/125 µ	50/125µ	
Operating Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1550
Min. OFL[1] Bandwidth (MHz-km)	200/500	200/500	500/500	1500/500	3000/500	–
Min. Laser[2] Bandwidth (MHz-km)	220/500	385/500	510/500	2000/500	4000/500	–
Max. Attenuation Loose Tube (dB/km)	3.25/1.0	3.25/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.40/0.30
Max. Attenuation Tight-Buffered[3] (dB/km)	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	0.80/0.50
100 Mb Fast Ethernet Min. Link Length (meters S/L[4])	300/2000	300/2000	300/2000	300/2000	300/2000	–/5000
1 Gb Ethernet Min. Link Length (meters S/L[4])	300/550	500/1000	600/600	1000[5]/600	1000[5]/600	–/5000
10 Gb Ethernet Min. Link Length (meters S/L[4])	35/300	35/300	85/300	300/300	500/300	–/10000

[1] OFL = Overfilled launch
[2] Effective modal bandwidth, determined by RML or DMD performance specifications
[3] Max. attenuation for tight-buffered, ribbon, micro-loose tube and loose tube plenum cables
[4] S/L = Short wavelength (850 nm)/Long wavelength (1310 nm)
[5] > 2000 meters for engineered links
[6] Low water peak single-mode suitable for CWDM use complies with ITU G.652.c/d

Availability

Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a fiber cable in this catalog section that meets your technical requirements contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

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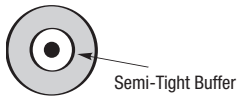
Interconnect Cables

Indoor

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer / Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending radii cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic
GIOK • Pigtails • Semi-Tight Buffer • Excellent Strippability • **I-K**																		
Dry Construction • Halogen-Free Jacket (Blue, Green, Green with Black Rings or Yellow)																		
-30/70°C	IEC 60332-2	6888	2100	3.1	1.4	Ø 245 ± 10			–				no	3	4	19		



GIOK101	1	62.5/125 OM1 in Blue	0.04	0.9		25	35
GIOK201	1	50/125 OM2 in Green	0.04	0.9		25	35
GIOK301	1	50/125 OM3 in Green with Black rings	0.04	0.9		25	35
GIOK401	1	50/125 OM2e in Green	0.04	0.9		25	35
GIOK901	1	9/125 OS1 in Yellow	0.04	0.9		25	35



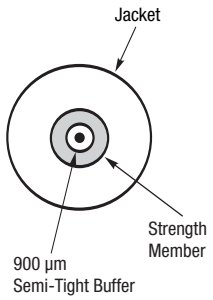
Strippability secondary coating = 100 cm

GIPS • Simplex • Semi-Tight Buffer • Excellent Strippability • **I-W(ZN)H**

Jelly-Filled Construction • Orange FRNC/LSNH Jacket																		
-5/55°C	IEC 60332-1	6888	2100	32.9	14.9	Ø 245 ± 10			Reinforced Aramid Yarn				no	200	10	128		



GIPSxA1			0.06	1.6	24	32
GIPSxB1			0.07	1.8	27	36
GIPSxC1			0.08	2.0	30	40
GIPSxD1			0.09	2.4	36	48
GIPSxE1			0.11	2.8	42	56
GIPSxF1			0.12	3.0	45	60



Strippability secondary coating = 100 cm
Color Code: see chart page 16.23

Optical characteristics see page 16.21.

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Interconnect Cables

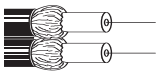
Indoor

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic

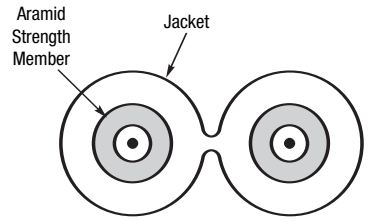
GIPS • Duplex • Figure 8 • Semi-Tight Buffer • Excellent Strippability • **I-W(ZN)H**

Jelly-Filled Construction • Orange FRNC/LSNH Jacket

-5/55°C	IEC 60332-1	6888	2100	65.3	29.6	Ø 245 ± 10			Reinforced Aramid Yarn			no	400	20	256		



GIPSxA2			0.13	3.3			33	50
GIPSxB2			0.15	3.7			37	56
GIPSxC2			0.16	4.1			41	62
GIPSxD2			0.19	4.9			49	74
GIPSxE2			0.22	5.7			57	86
GIPSxF2			0.24	6.1			61	92

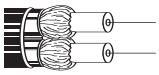


Strippability secondary coating = 100 cm
Color Code: see chart page 16.23

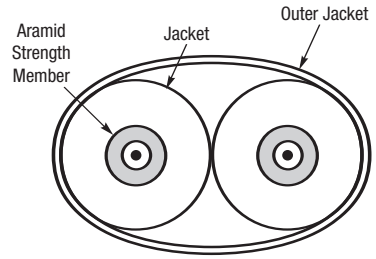
GIPK • Heavy Duplex • Semi-Tight Buffer • Excellent Strippability • **I-K(ZN)HH**

Dry Construction • Orange FRNC/LSNH Jacket

-5/55°C	IEC 60332-1	6888	2100	115.3	52.3	Ø 245 ± 10			Reinforced Aramid Yarn			no	400	20	256		



GIPKxA2			0.17	4.3			43	65
GIPKxB2			0.19	4.7			47	71
GIPKxC2			0.20	5.1			51	77
GIPKxD2			0.23	5.9			59	89
GIPKxE2			0.26	6.7			67	101
GIPKxF2			0.28	7.1			71	107



Strippability secondary coating = 100 cm
Color Code: see chart page 16.23

Optical characteristics see page 16.21.

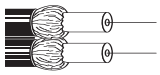
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

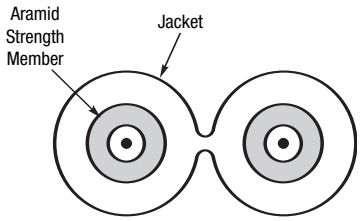
Interconnect Cables

Indoor

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer / Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic
GIPT • Mini-Zip • Figure 8 • Tight Buffer • **I-V(ZN)H**																		
Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C	IEC 60332-1	6888	2100	26.4	12.0	Ø 280 ± 15			Reinforced Aramid Yarn				no	400	20	19		



GIPTxA2			0.13	3.4	34	51
GIPTxB2			0.15	3.9	39	58



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Breakout Cables

Indoor

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic

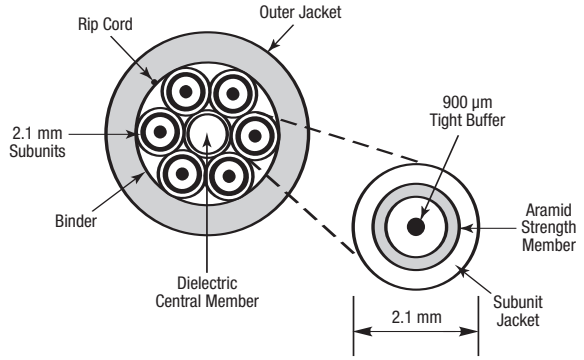
GIBT • Tight Buffer • With Rip Cord • **I-V(ZN)HH**

Dry Construction • Orange FRNC/LSNH Jacket

-5/55°C	IEC 60332-1	6888	2100			Ø 280 ± 15			Reinforced Aramid Yarn	0.08	2.1	Filler					



GIBTx02	2			115.7	52.5				2 + 2 BE	0.21	5.3		400	7.5	379	53	80
GIBTx04	4			143.5	65.1				CE + 4	0.24	6.2		400	7.5	507	62	93
GIBTx06	6			273.1	123.9				CE + 6	0.31	8.0		600	7.5	928	80	120
GIBTx08	8			356.5	161.7				CE + 8	0.37	9.4		800	7.5	1235	94	141
GIBTx12	12			402.8	182.7				3 + 9	0.41	10.5		1200	7.5	1424	105	158
GIBTx24	24			810.2	367.5				2 + 8 + 14	0.56	14.3		2400	7.5	2677	143	215



Color Code: see chart page 16.23

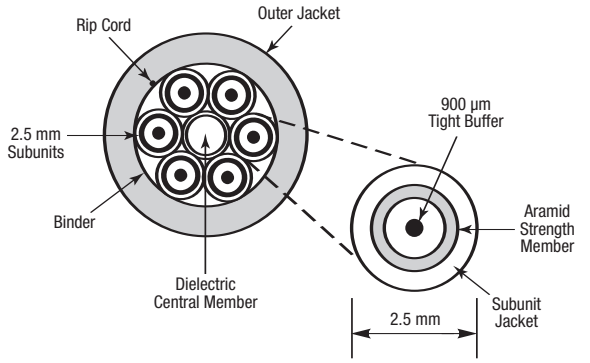
GIBK • Semi-Tight Buffer • With Rip Cord • Excellent Strippability • **I-K(ZN)HH**

Dry Construction • Orange FRNC/LSNH Jacket

-5/55°C	IEC 60332-1	6888	2100	115.3	52.3	Ø 245 ± 10			Reinforced Aramid Yarn	0.10	2.5	Filler					



GIBKx02	2			120.4	54.6				Flat		6.30 x 3.8		400	7.5	382	–	–
GIBKx04	4			185.2	84.0				CE + 4	0.28	7.2		400	7.5	607	72	108
GIBKx06	6			338.0	153.3				CE + 6	0.37	9.4		600	7.5	1124	94	141
GIBKx08	8			430.6	195.3				CE + 8	0.43	10.9		800	7.5	1450	109	164
GIBKx12	12			513.9	233.1				3 + 9	0.46	11.8		1200	7.5	1675	118	177



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

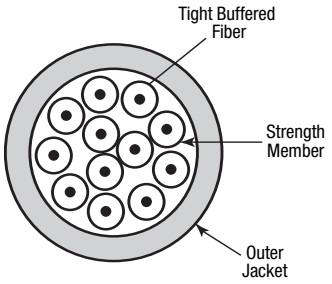
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Mini-Breakout Cables (Distribution)

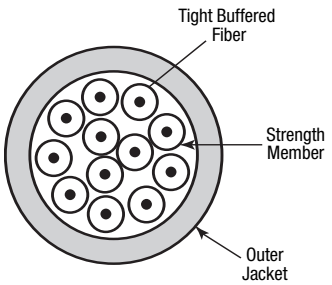
Indoor

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GIMT • Tight Buffer • **I-V(ZN)H**																		
Dry Construction • Orange FRNC/LSNH Jacket																		
-5/55°C	IEC 60332-2		6888	2100			Ø 280 ± 15			Reinforced Aramid Yarn			no		4			
	GIMTx02	2			74.1	33.5					0.16	4.0		400		227	40	60
	GIMTx04	4			88.0	39.9					0.19	4.8		400		294	48	72
	GIMTx06	6			106.5	48.3					0.21	5.3		450		339	53	80
	GIMTx08	8			115.7	52.5					0.21	5.3		450		351	53	80
	GIMTx12	12			185.2	84.0					0.28	7.0		500		619	70	105
	GIMTx16	16			226.9	102.9					0.31	8.0		500		886	80	120
	GIMTx24	24			263.9	119.7					0.35	9.0		600		1044	90	135



Available in multimode only.
Color Code: see chart page 16.23

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GIMK • Semi-Tight Buffer • **I-K(ZN)H**																		
Dry Construction • Orange FRNC/LSNH Jacket																		
-5/55°C	IEC 60332-2		6888	2100			Ø 245 ± 10			Reinforced Aramid Yarn			no		4			
	GIMKx02	2			88.0	39.9					0.16	4.0		400		235	40	60
	GIMKx04	4			92.6	42.0					0.19	4.8		400		310	48	72
	GIMKx06	6			106.5	48.3					0.21	5.3		450		339	53	80
	GIMKx08	8			120.4	54.6					0.21	5.3		450		381	53	80



Available in multimode only.
Color Code: see chart page 16.23

Optical characteristics see page 16.21.

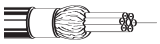
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

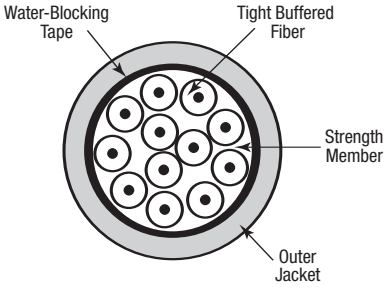
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Mini-Breakout Cables (Distribution)

Universal – Indoor/Outdoor, Standard Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic
GUMT • Tight Buffer • **A/I-VQ(ZN)H**																		
Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C IEC 60332-2		6888	2100				Ø 280 ± 15			Longitudinal watertightness Swellable Glass Yarn (6)			no		4			
GUMTx04	4			120.4	54.6						0.21	5.4		400		296	54	81
GUMTx06	6			138.0	63.0						0.23	5.9		450		347	59	89
GUMTx08	8			148.1	67.2						0.23	5.9		450		371	59	89
GUMTx12	12			208.3	94.5						0.30	7.6		500		622	76	114
GUMTx16	16			245.4	111.3						0.34	8.6		500		845	86	129
GUMTx24	24			300.9	136.5						0.38	9.6		600		1082	96	144





Color Code: see chart page 16.23

Optical characteristics see page 16.21.

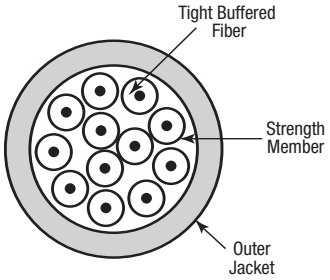
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Mini-Breakout Cables (Distribution)

Universal – Indoor/Outdoor, Improved Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GUXT • Tight Buffer • **A/I-VQ(ZN)BH**																		
Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C IEC 60332-2			6888	2100			Ø 280 ± 15			Longitudinal watertightness Swellable Glass Yarn			no		4			
	GUXTx04	4			203.7	92.4					0.28	7.0		2000		375	70	105
	GUXTx06	6			236.1	107.1					0.29	7.3		2000		445	73	110
	GUXTx08	8			259.3	117.6					0.29	7.3		2000		472	73	110
	GUXTx12	12			351.9	159.6					0.37	9.4		3000		801	94	141
	GUXTx24	24			560.2	254.1					0.42	10.6		4000		1243	106	159



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

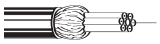
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

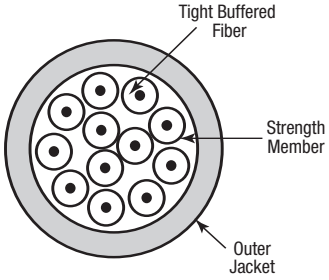
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Mini-Breakout Cables (Distribution)

Special – Indoor/Outdoor

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GMMT • Intex Mobile • Tight Buffer • Designed for Despooling and Respooling • **A/I-VQ(ZN)11Y**																		
Dry Construction • PUR Jacket (Orange or Black)																		
-30/70°C IEC 60332-1		6888	2100			Ø 280 ± 15			Longitudinal watertightness Swellable Glass Yarn			no					
GMMTx04	4			143.5	65.1					0.23	5.8		800	4	580	58	87	
GMMTx06	6			175.9	79.8					0.25	6.3		950	4	725	63	95	
GMMTx08	8			217.6	98.7					0.28	7.0		1100	4	890	70	105	





Color Code: see chart page 16.23

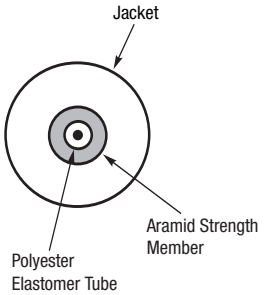
Optical characteristics see page 16.21.

Breakout Kit Cables

Universal – Indoor/Outdoor

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending radii cable (mm) static	Bending radii cable (mm) dynamic
GIPS • Simplex • With Furcation Tube (no Fiber)																		
Dry Construction • Orange PUR Jacket																		
-5/55°C IEC 60332-2		6888	2100	42.5	19.3					Reinforced Aramid Yarn	0.11	2.8	no	110	–	128	28	42





Color Code: see chart page 16.23

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Central Loose Tube Cables

Outdoor – Standard Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GOSA • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A-DQ(ZN)2Y**																		
Dry Construction • Black PE (UV-resistant) Jacket																		
-30/70°C		13448	4100	334.4	151.7	Ø 250 ± 15	0.13	3.2	Longitudinal watertightness Swellable Glass Yarn (6)	0.23	5.8	no	700	10	–	58	87



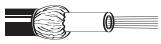
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GOSAx04	4
GOSAx06	6
GOSAx08	8
GOSAx12	12

Color Code: see chart page 16.23

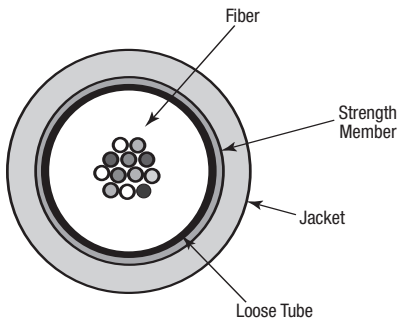
GOSB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A-DQ(ZN)2Y**

Dry Construction • Black PE (UV-resistant) Jacket

-30/70°C		6888	2100	305.6	138.6	Ø 250 ± 15	0.17	4.2	Longitudinal watertightness Swellable Glass Yarn (6)	0.34	8.7	no	1400	15	–	87	131



GOSBx02	2
GOSBx04	4
GOSBx06	6
GOSBx08	8
GOSBx12	12
GOSBx16	16
GOSBx24	24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

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Central Loose Tube Cables

Outdoor – Improved Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GORA • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A-DQ(ZN)B2Y**																		
Dry Construction • Black PE (UV-resistant) Jacket																		
-30/70°C		13448	4100	497.1	225.5	Ø 250 ± 15	0.13	3.2	Longitudinal watertightness Swellable Glass Yarn (14)	0.28	7.1	no	1400	10	755	71	107



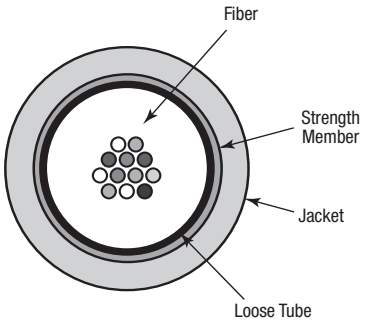
GORAx02	2
GORAx04	4
GORAx06	6
GORAx08	8
GORAx12	12

Color Code: see chart page 16.23

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GORB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A-DQ(ZN)B2Y**																		
Dry Construction • Black PE (UV-resistant) Jacket																		
-30/70°C		6888	2100	444.4	201.6	Ø 250 ± 15	0.17	4.2	Longitudinal watertightness Swellable Glass Yarn (14)	0.40	10.2	no	4000	15	2200	102	153



GORBx02	2
GORBx04	4
GORBx06	6
GORBx08	8
GORBx12	12
GORBx16	16
GORBx24	24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

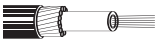
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

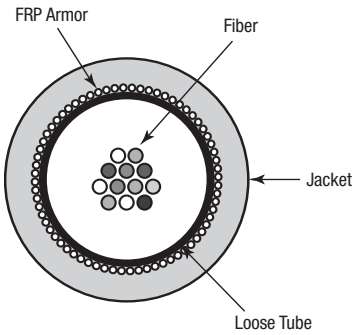
Central Loose Tube Cables

Outdoor – Fiber Reinforced Plastic Armor (FRP), Full Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GOFB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Water-Blocked • FRP • **A-DQB2Y (FRP1.0)**																		
Dry Construction • Single Black PE Jacket																		
-30/70°C		6888	2100	352.7	160.0	Ø 250 ± 15	0.16	4.0	FRP Rods	0.354	9.0	no	4000	40	–	90	180



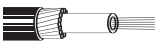
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GOFBx06 6
GOFBx08 8
GOFBx12 12
GOFBx16 16
GOFBx24 24



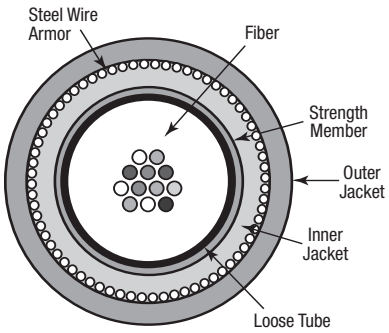
Color Code: see chart page 16.23

Outdoor – Steel Wire Armor (SWA), Full Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending radii cable (mm) static	Bending radii cable (mm) dynamic
GOWB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • SWA • **A-DQ(ZN)2YB2Y (R0.63vzk)**																		
Dry Construction • Double Black PE Jacket																		
-30/70°C		6888	2100	1029.7	467.0	Ø 250 ± 15	0.16	4.0	Longitudinal watertightness Swellable Glass Yarn	0.512	13.0	no	6500	50	–	130	260



GOWBx02 2
GOWBx04 4
GOWBx06 6
GOWBx08 8
GOWBx12 12
GOWBx16 16
GOWBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

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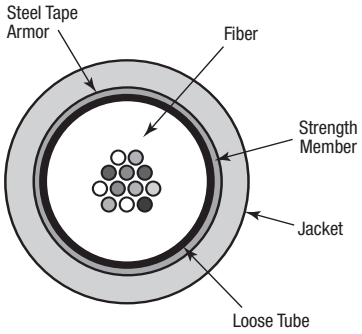
Central Loose Tube Cables

Outdoor – Corrugated Steel Tape Armor (CST), Full Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GOCB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • CST • **A-DQ(ZN)(SR)2Y**																		
Dry Construction • Single Black PE Jacket																		
-30/70°C		6888	2100	518.5	235.2	Ø 250 ± 15	0.16	4.0	Longitudinal watertightness Swellable Glass Yarn	0.42	10.6	no	2000	40	–	106	212

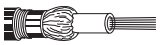


GOCBx02 2
GOCBx04 4
GOCBx06 6
GOCBx08 8
GOCBx12 12
GOCBx16 16
GOCBx24 24

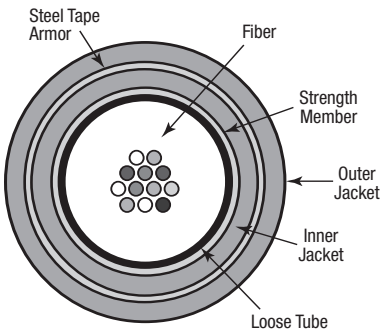


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Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GOD • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • CST • **A-DQ(ZN)2Y(SR)2Y**																		
Dry Construction • Double Black PE Jacket																		
-30/70°C		6888	2100			Ø 250 ± 15			Longitudinal watertightness Swellable Glass Yarn									



GODAx02	2		666.7	302.4		0.11	2.8		0.43	11.0	no	2000	40	–	110	220
GODAx04	4															
GODAx06	6															
GODAx08	8															
GODAx12	12															
GODBx16	16		822.3	373.0		0.16	4.0		0.496	12.6	no	2000	40	–	126	232
GODBx24	24															



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

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Central Loose Tube Cables

Universal – Indoor/Outdoor, Standard Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GUSA • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A/I-DQ(ZN)H**																		
Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C	IEC 60332-3C	13448	4100	334.4	151.7	Ø 250 ± 15	0.13	3.2	Longitudinal watertightness Swellable Glass Yarn (6)	0.23	5.8	no	700	10	550	58	87

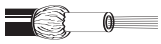


GUSAx02 2
GUSAx04 4
GUSAx06 6
GUSAx08 8
GUSAx12 12

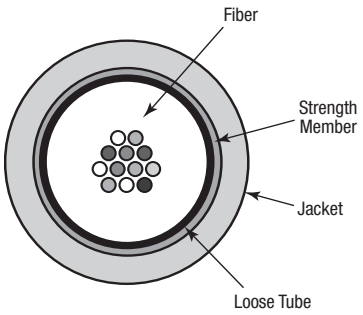
Color Code: see chart page 16.23

GUSB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A/I-DQ(ZN)H**

Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C	IEC 60332-3C	6888	2100	333.3	151.2	Ø 250 ± 15	0.17	4.2	Longitudinal watertightness Swellable Glass Yarn (6)	0.34	8.7	no	1400	15	1370	87	131



GUSBx02 2
GUSBx04 4
GUSBx06 6
GUSBx08 8
GUSBx12 12
GUSBx16 16
GUSBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

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Central Loose Tube Cables

Universal – Indoor/Outdoor, Improved Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GURA • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A/I-DQ(ZN)BH**																		
Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C	IEC 60332-3C	13448	4100	497.1	225.5	Ø 250 ± 15	0.13	3.2	Longitudinal watertightness Swellable Glass Yarn (14)	0.28	7.1	no	1400	10	755	71	107



GURAx02	2
GURAx04	4
GURAx06	6
GURAx08	8
GURAx12	12

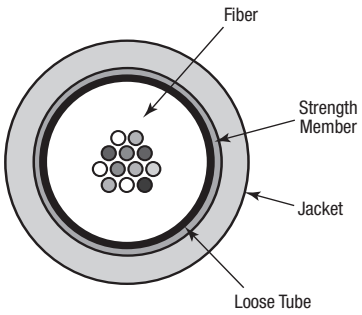
Color Code: see chart page 16.23

GURB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A/I-DQ(ZN)BH**

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C	IEC 60332-3C	6888	2100	481.5	218.4	Ø 250 ± 15	0.17	4.2	Longitudinal watertightness Swellable Glass Yarn (14)	0.40	10.2	no	4000	15	1680	102	153



GURBx04	4
GURBx06	6
GURBx08	8
GURBx12	12
GURBx16	16
GURBx24	24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

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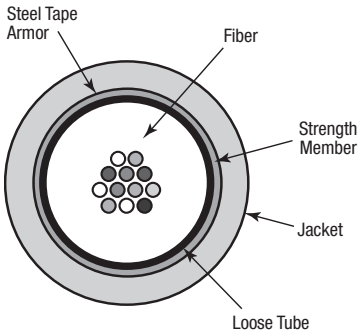
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Central Loose Tube Cables

Universal – Indoor/Outdoor, Corrugated Steel Tape Armor (CST), Full Rodent Protection

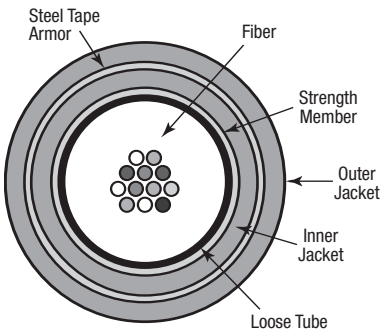
Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending radii cable (mm) static	Bending radii cable (mm) dynamic
GUCB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • CST • **A/I-DQ(ZN)(SR)H**																		
Dry Construction • Single Black FRNC/LSNH Jacket																		
-30/70°C	EN 50266-2-2 EN 50267-2-2 EN 50268-2, EN 60331-25		6888	2100	685.2	310.8	Ø 250 ± 15	0.16	4.0	Longitudinal watertightness Swellable Glass Yarn	0.42	10.6	no	2000	40	–	106	212
		GUCBx02	2															
		GUCBx04	4															
		GUCBx06	6															
		GUCBx08	8															
		GUCBx12	12															
		GUCBx16	16															
		GUCBx24	24															





Color Code: see chart page 16.23

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending radii cable (mm) static	Bending radii cable (mm) dynamic
GUD • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • CST • **A/I-DQ(ZN)H(SR)H**																		
Dry Construction • Double Black FRNC/LSNH Jacket																		
-30/70°C	EN 50266-2-2 EN 50267-2-2 EN 50268-2		6888	2100			Ø 250 ± 15			Longitudinal watertightness Swellable Glass Yarn								
		GUDAx02	2		833.3	378.0		0.11	2.8		0.43	11.0	no	2000	40	–	110	220
		GUDAx04	4															
		GUDAx06	6															
		GUDAx08	8															
		GUDAx10	10															
		GUDAx12	12															
		GUDBx16	16		1078.7	489.3		0.16	4.0		0.51	13.0	no	2000	40	–	130	260
		GUDBx24	24															



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

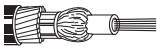
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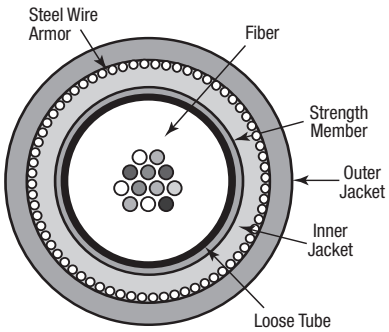
Central Loose Tube Cables

Universal – Indoor/Outdoor, Steel Wire Armor (SWA), Full Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic
GUWB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • SWA • **A/I-DQ(ZN)HBH (R0.63vzk)**																		
Dry Construction • Double Black FRNC/LSNH Jacket																		
-30/70°C		6888	2100	1263.8	561.0	Ø 250 ± 15	0.16	4.0	Longitudinal watertightness Swellable Glass Yarn	0.51	13.0	no	6500	50	–	130	260



GUWBx02 2
GUWBx04 4
GUWBx06 6
GUWBx08 8
GUWBx12 12
GUWBx16 16
GUWBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

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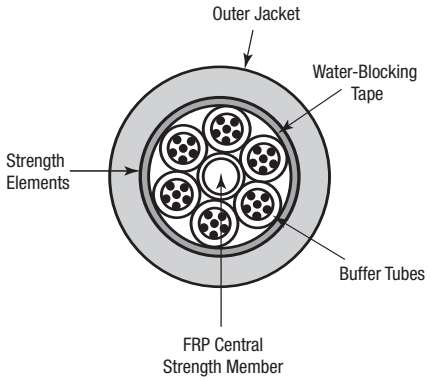
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Multi Loose Tube Cables

Outdoor

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GBA • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DQ(ZN)2Y**																		
Dry Construction • Black PE (HDPE) Jacket																		
-30/70°C																		
GBAGx04 **GBA**Gx06 **GBA**Gx08 **GBA**Gx12 **GBA**Gx18 **GBA**Gx24 **GBA**Gx30 **GBA**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	333.3 650.8	151.2 295.2	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.41	10.3	2.0	3000	20	–	155	206
GBADx24 **GBA**Dx36 **GBA**Dx48 **GBA**Dx60 **GBA**Dx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888 13448	2100 4100	458.3 894.8	207.9 405.9	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.48	12.2	2.7	3500	20	–	183	244
GBAEx84 **GBA**Ex96	84 (7x12) 96 (8x12)	6888 13448	2100 4100	588.0 1147.9	266.7 520.7	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.54	13.8	3.0/4.3	4000	20	–	207	276
GBAFx08 **GBA**Fx20 **GBA**Fx32 **GBA**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888 13448	2100 4100	888.9 1735.5	403.2 787.2	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.67	17.0	3.0/7.5	4000	20	–	255	340
GBAMx16	216 (18x12)	6888 13448	2100 4100	1041.7 2033.7	472.5 922.5	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.72	18.2	2.7	4000	20	–	273	364
GBAIx92	192 (8x24)	6888 13448	2100 4100	1064.8 2078.9	483.0 943.0	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.71	18.0	3.0/6.0	4000	20	–	270	360
GBAJx88	288 (12x24)	6888	2100	1643.5	745.5	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.88	22.4	3.0/10.5	4000	20	–	336	448
GBALx32	432 (18x24)	6888	2100	1643.5	745.5	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.91	23.2	2.7/3.7	4000	20	–	348	464

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

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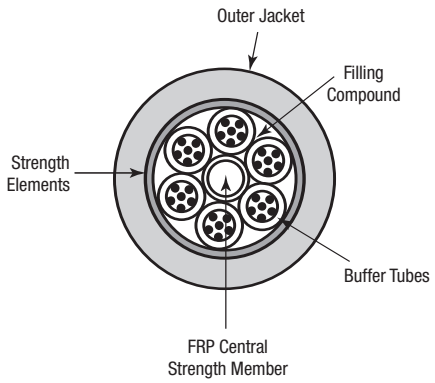
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Outdoor

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic
GDA • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DF(ZN)2Y**																		
Filled Construction • Black PE (HDPE) Jacket																		
-30/70°C																		
GDAGx04 **GDA**Gx06 **GDA**Gx08 **GDA**Gx12 **GDA**Gx18 **GDA**Gx24 **GDA**Gx30 **GDA**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	342.6 668.9	155.4 303.4	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.39	10.0	2.0	3000	20	–	150	200
GDADx24 **GDA**Dx36 **GDA**Dx48 **GDA**Dx60 **GDA**Dx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888 13448	2100 4100	490.7 958.1	222.6 434.6	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.47	12.0	2.7	3500	20	–	180	240
GDAEx84 **GDA**Ex96	84 (7x12) 96 (8x12)	6888 13448	2100 4100	629.6 1229.3	285.6 557.6	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.54	13.6	3.0/4.3	4000	20	–	204	272
GDAFx08 **GDA**Fx20 **GDA**Fx32 **GDA**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888 13448	2100 4100	949.1 1853.0	430.5 840.5	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.66	16.8	3.0/7.5	4000	20	–	252	336
GDAMx16	216 (18x12)	6888 13448	2100 4100	1134.3 2214.5	514.5 1004.5	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.69	17.5	2.7	4000	20	–	263	350
GDAIx92	192 (8x24)	6888 13448	2100 4100	1041.7 2033.7	472.5 922.5	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.69	17.6	3.0/6.0	4000	20	–	264	352
GDAJx88	288 (12x24)	6888	2100	1736.1	787.5	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.87	22.1	3.0/10.5	4000	20	–	332	442
GDALx32	432 (18x24)	6888	2100	1851.9	840.0	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.89	22.5	2.7/3.7	4000	20	–	338	450

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

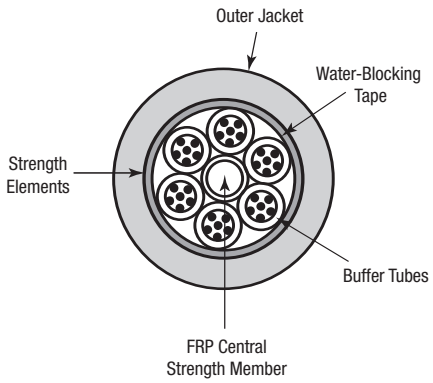
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Outdoor – Improved Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GBR • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DQ(ZN)B2Y**																		
Dry Construction • Black PE (HDPE) Jacket																		
-30/70°C																		
GBRGx04 **GBR**Gx06 **GBR**Gx08 **GBR**Gx12 **GBR**Gx18 **GBR**Gx24 **GBR**Gx30 **GBR**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	486.1 949.1	220.5 430.5	Ø 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.46	11.8	2.0	3000	20	–	177	236
GBRDx24 **GBR**Dx36 **GBR**Dx48 **GBR**Dx60 **GBR**Dx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888 13448	2100 4100	625.0 1220.2	283.5 553.5	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.54	13.7	2.7	3500	20	–	206	274
GBREx84 **GBR**Ex96	84 (7x12) 96 (8x12)	6888 13448	2100 4100	787.0 1536.6	357.0 697.0	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.60	15.3	3.0/4.3	4000	20	–	230	306
GBRFx08 **GBR**Fx20 **GBR**Fx32 **GBR**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888 13448	2100 4100	1088.0 2124.1	493.5 963.5	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.73	18.5	3.0/7.5	4000	20	–	278	370
GBRMx16	216 (18x12)	6888 13448	2100 4100	1250.0 2440.5	567.0 1107.0	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.78	19.7	2.7	4000	20	–	296	394
GBRIx92	192 (8x24)	6888 13448	2100 4100	1296.3 2530.9	588.0 1148.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.77	19.5	3.0/6.0	4000	20	–	293	390
GBRJx88	288 (12x24)	6888	2100	1898.2	861.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.94	23.9	3.0/10.5	4000	20	–	359	478
GBRLx32	432 (18x24)	6888	2100	1898.2	861.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.97	24.7	2.7/3.7	4000	20	–	371	494

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

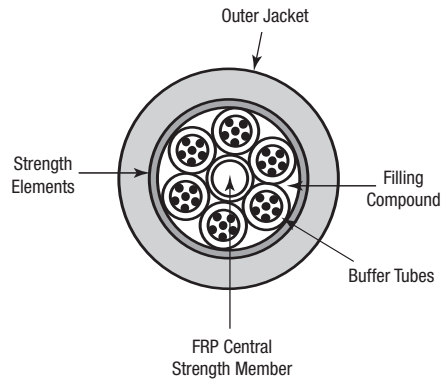
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Outdoor – Improved Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GDR • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DF(ZN)B2Y**																		
Filled Construction • Black PE (HDPE) Jacket																		
-30/70°C																		
GDRGx04	4 (1x4)		6888	2100	476.9	216.3	Ø 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.45	11.5	2.0	3000	20	–	173	230
GDRGx06	6 (1x6)		13448	4100	931.0	422.3												
GDRGx08	8 (2x4)																	
GDRGx12	12 (2x6)																	
GDRGx18	18 (3x6)																	
GDRGx24	24 (4x6)																	
GDRGx30	30 (5x6)																	
GDRGx36	36 (6x6)																	
GDRDx24	24 (2x12)		6888	2100	629.6	285.6	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.53	13.4	2.7	3500	20	–	201	268
GDRDx36	36 (3x12)		13448	4100	1229.3	557.6												
GDRDx48	48 (4x12)																	
GDRDx60	60 (5x12)																	
GDRDx72	72 (6x12)																	
GDREx84	84 (7x12)		6888	2100	805.6	365.4	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.59	15.0	3.0/4.3	4000	20	–	225	300
GDREx96	96 (8x12)		13448	4100	1572.8	713.4												
GDRFx08	108 (9x12)		6888	2100	1134.3	514.5	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.72	18.2	3.0/7.5	4000	20	–	273	364
GDRFx20	120 (10x12)		13448	4100	2214.5	1004.5												
GDRFx32	132 (11x12)																	
GDRFx44	144 (12x12)																	
GDRMx16	216 (18x12)		6888	2100	1319.5	598.5	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.75	19.0	2.7	4000	20	–	285	380
			13448	4100	2576.1	1168.5												
GDRIx92	192 (8x24)		6888	2100	1226.9	556.5	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.75	19.0	3.0/6.0	4000	20	–	285	380
			13448	4100	2395.3	1086.5												
GDRJx88	288 (12x24)		6888	2100	1944.5	882.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.93	23.5	3.0/10.5	4000	20	–	353	470
			13448	4100	3796.3	1722.0												
GDRLx32	432 (18x24)		6888	2100	2037.1	924.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.94	24.0	2.7/3.7	4000	20	–	360	480
			13448	4100	3977.1	1804.0												

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

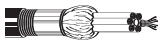
Outdoor – Full Rodent Protection, Corrugated Steel Tape Armor (CST)

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer / Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic

GBD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • CST • **A-DQ(ZN)2Y(SR)2Y**

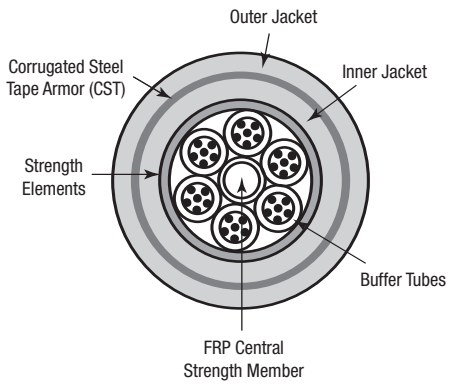
Dry Construction • Double Black PE (HDPE) Jacket

-30/70°C



GBDGx04 **GBD**Gx06 **GBD**Gx08 **GBD**Gx12 **GBD**Gx18 **GBD**Gx24 **GBD**Gx30 **GBD**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	838.0 1636.0	380.1 742.1	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.52	13.2	2.0	3000	50	–	198	264
GBDDx24 **GBD**Dx36 **GBD**Dx48 **GBD**Dx60 **GBD**Dx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888	2100	1046.3	474.6	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.60	15.2	2.7	3500	50	–	228	304
GBDEx84 **GBD**Ex96	84 (7x12) 96 (8x12)	6888	2100	1273.2	577.5	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.69	17.4	3.0/4.3	4000	50	–	261	348
GBDFx08 **GBD**Fx20 **GBD**Fx32 **GBD**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888	2100	1555.6	705.6	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.81	20.5	3.0/7.5	4000	50	–	308	410
GBDMx16	216 (18x12)	6888	2100	1759.3	798.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.85	21.5	2.7	4000	50	–	323	430
GBDIx92	192 (8x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.85	21.5	3.0/6.0	4000	50	–	323	430
GBDJx88	288 (12x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.02	26.0	3.0/10.5	4000	50	–	390	520
GBDLx32	432 (18x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.04	26.5	2.7/3.7	4000	50	–	398	530

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

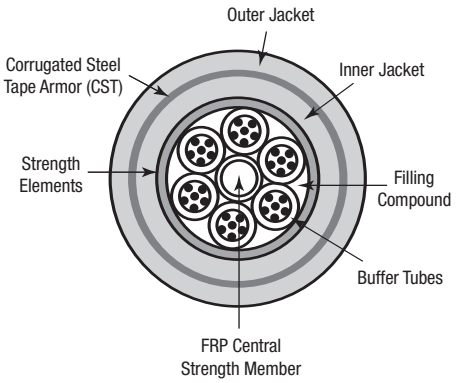
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Outdoor – Full Rodent Protection, Corrugated Steel Tape Armor (CST)

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic
GDD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • CST • **A-DF(ZN)2Y(SR)2Y**																		
Filled Construction • Double Black PE (HDPE) Jacket																		
-30/70°C																		
GDDGx04 **GDD**Gx06 **GDD**Gx08 **GDD**Gx12 **GDD**Gx18 **GDD**Gx24 **GDD**Gx30 **GDD**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	851.9 1663.2	386.4 754.4	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.51	13.0	2.0	3000	50	–	195	260
GDDDx24 **GDD**Dx36 **GDD**Dx48 **GDD**Dx60 **GDD**Dx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888	2100	1083.3	491.4	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.59	15.0	2.7	3500	50	–	225	300
GDDEx84 **GDD**Ex96	84 (7x12) 96 (8x12)	6888	2100	1319.5	598.5	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.67	17.1	3.0/4.3	4000	50	–	257	342
GDDFx08 **GDD**Fx20 **GDD**Fx32 **GDD**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888	2100	1745.4	791.7	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.81	20.5	3.0/7.5	4000	50	–	308	410
GDDMx16	216 (18x12)	6888	2100	1990.8	903.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.83	21.0	2.7	4000	50	–	315	420
GDDIx92	192 (8x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.83	21.0	3.0/6.0	4000	50	–	315	420
GDDJx88	288 (12x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.00	25.5	3.0/10.5	4000	50	–	383	510
GDDLx32	432 (18x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.02	26.0	2.7/3.7	4000	50	–	390	520

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

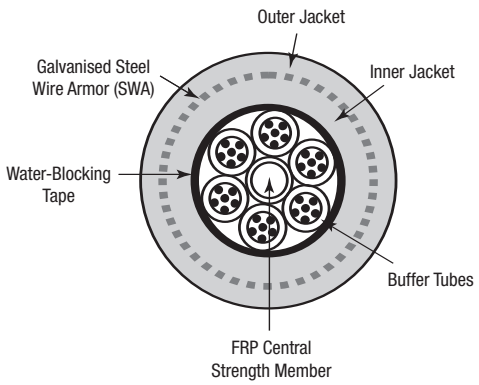
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Outdoor – Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GBW • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • SWA • **A-DQ2YB2Y (R1.0vzk)**																		
Dry Construction • Double Black PE Jacket																		
-30/70°C																		
	GBWGx04	4 (1x4)	6888	2100	1342.6	609.0	Ø 250 ± 15	0.07	1.9	–	0.53	13.5	2.0	8000	50	–	203	270
	GBWGx06	6 (1x6)	13448	4100	2621.3	1189.0												
	GBWGx08	8 (2x4)																
	GBWGx12	12 (2x6)																
	GBWGx18	18 (3x6)																
	GBWGx24	24 (4x6)																
	GBWGx30	30 (5x6)																
	GBWGx36	36 (6x6)																
	GBWDx24	24 (2x12)	6888	2100	1666.7	756.0	Ø 250 ± 15	0.10	2.5	–	0.61	15.5	2.7	8000	50	–	233	310
	GBWDx36	36 (3x12)	13448	4100	3254.0	1476.0												
	GBWDx48	48 (4x12)																
	GBWDx60	60 (5x12)																
	GBWDx72	72 (6x12)																
	GBWEx84	84 (7x12)	6888	2100	1875.0	850.5	Ø 250 ± 15	0.10	2.5	–	0.67	17.0	3.0/4.3	8000	50	–	255	340
	GBWEx96	96 (8x12)	13448	4100	3660.7	1660.5												
	GBWFx08	108 (9x12)	6888	2100	2592.6	1176.0	Ø 250 ± 15	0.10	2.5	–	0.80	20.2	3.0/7.5	8000	50	–	303	404
	GBWFx20	120 (10x12)	13448	4100	5061.8	2296.0												
	GBWFx32	132 (11x12)																
	GBWFx44	144 (12x12)																
	GBWMx16	216 (18x12)	6888	2100	2777.8	1260.0	Ø 250 ± 15	0.10	2.5	–	0.83	21.0	2.7	8000	50	–	315	420
	GBWIx92	192 (8x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	0.83	21.0	3.0/6.0	8000	50	–	315	420
	GBWJx88	288 (12x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	1.00	25.5	3.0/10.5	8000	50	–	383	510
	GBWLx32	432 (18x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	1.02	26.0	2.7/3.7	8000	50	–	390	520

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

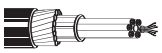
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

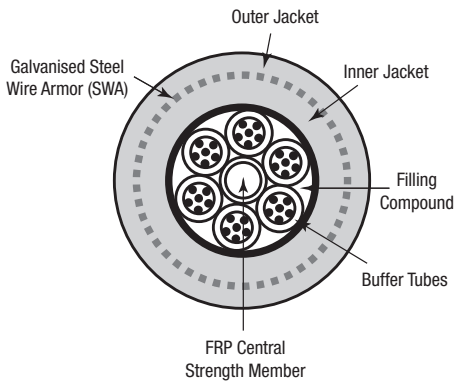
Multi Loose Tube Cables

Outdoor – Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GDW • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • SWA • **A-DF2YB2Y (R1.0vzk)**																		
Filled Construction • Double Black PE Jacket																		
-30/70°C																		
	GDWGx04	4 (1x4)	6888	2100	1388.9	630.0	Ø 250 ± 15	0.07	1.9	–	0.53	13.5	2.0	8000	50	–	203	270
	GDWGx06	6 (1x6)	13448	4100	2711.7	1230.0												
	GDWGx08	8 (2x4)																
	GDWGx12	12 (2x6)																
	GDWGx18	18 (3x6)																
	GDWGx24	24 (4x6)																
	GDWGx30	30 (5x6)																
	GDWGx36	36 (6x6)																
	GDWDx24	24 (2x12)	6888	2100	1713.0	777.0	Ø 250 ± 15	0.10	2.5	–	0.61	15.5	2.7	8000	50	–	233	310
	GDWDx36	36 (3x12)	13448	4100	3344.4	1517.0												
	GDWDx48	48 (4x12)																
	GDWDx60	60 (5x12)																
	GDWDx72	72 (6x12)																
	GDWEx84	84 (7x12)	6888	2100	1921.3	871.5	Ø 250 ± 15	0.10	2.5	–	0.66	16.8	3.0/4.3	8000	50	–	252	336
	GDWEx96	96 (8x12)	13448	4100	3751.1	1701.5												
	GDWFx08	108 (9x12)	6888	2100	2638.9	1197.0	Ø 250 ± 15	0.10	2.5	–	0.80	20.2	3.0/7.5	8000	50	–	303	404
	GDWFx20	120 (10x12)	13448	4100	5152.2	2337.0												
	GDWFx32	132 (11x12)																
	GDWFx44	144 (12x12)																
	GDWMx16	216 (18x12)	6888	2100	2824.1	1281.0	Ø 250 ± 15	0.10	2.5	–	0.81	20.5	2.7	8000	50	–	308	410
	GDWIx92	192 (8x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	0.81	20.5	3.0/6.0	8000	50	–	308	410
	GDWJx88	288 (12x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	0.98	25.0	3.0/10.5	8000	50	–	375	500
	GDWLx32	432 (18x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	1.00	25.5	2.7/3.7	8000	50	–	383	510



Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

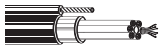
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Multi Loose Tube Cables

Aerial – Outdoor

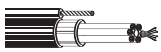
Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GALH • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DSF(L)2YT (Span = 50 m)**																		
Filled Construction • Black PE (HDPE) Jacket • Figure 8, Steel Messenger																		
-30/70°C		6888	2100	793.7	360.0	Ø 250 ± 15	0.059	1.5	Steel Messenger	0.380 0.790	9.8 20.0	1.7	4000	20	–	147	196



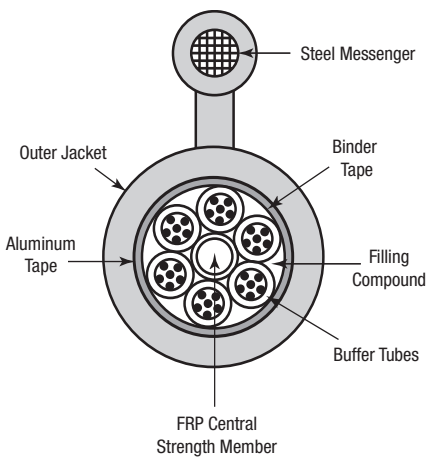
GALHx04 4 (1x4)
GALHx08 8 (2x4)
GALHx12 12 (3x4)
GALHx16 16 (4x4)
GALHx20 20 (5x4)
GALHx24 24 (6x4)

Color Code: see chart page 16.23
Optional: higher pulling tension available upon request.

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer / Tube OD inch	Nom. Buffer / Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GALD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DSF(L)2YT (Span = 50 m)**																		
Filled Construction • Black PE (HDPE) Jacket • Figure 8, Steel Messenger																		
-30/70°C		6888	2100	1091.3	495.0	Ø 250 ± 15	0.098	2.5	Steel Messenger	0.500 0.914	12.8 23.0	2.7	4000	20	–	192	256



GALDx12 12 (1x12)
GALDx24 24 (2x12)
GALDx36 36 (3x12)
GALDx48 48 (4x12)
GALDx60 60 (5x12)
GALDx72 72 (6x12)



Color Code: see chart page 16.23
Optional: higher pulling tension available upon request.

Optical characteristics see page 16.21.

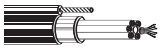
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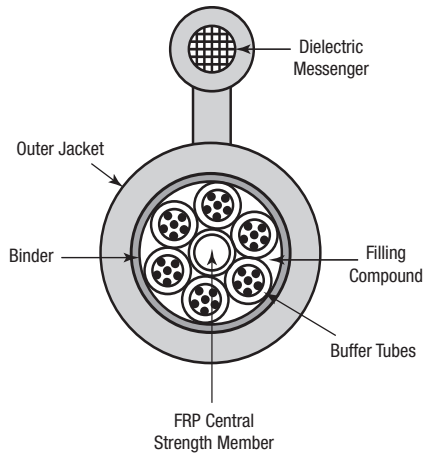
Multi Loose Tube Cables

Aerial – Outdoor, All Dielectric

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic
GAAD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DF(ZN)2YT (Span = 50 m)**																		
Filled Construction • Black PE (HDPE) Jacket • Figure 8, Dielectric Messenger																		
-30/70°C		6888	2100	910.5	413.0	Ø 250 ± 15	0.098	2.5	FRP Rod Messenger	0.50 0.95	12.7 24.0	2.7	4000	20	–	192	256



GAADx12 12 (1x12)
GAADx24 24 (2x12)
GAADx36 36 (3x12)
GAADx48 48 (4x12)
GAADx60 60 (5x12)
GAADx72 72 (6x12)



Color Code: see chart page 16.23
Optional: higher pulling tension available upon request.

Optical characteristics see page 16.21.

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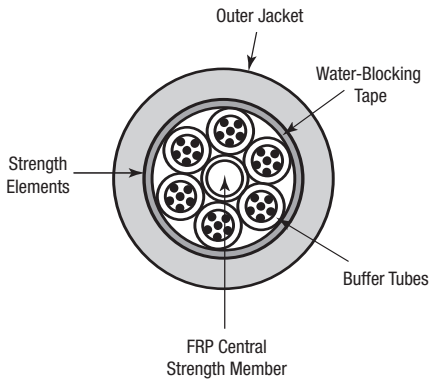
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Universal – Indoor/Outdoor

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GCA • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A/I-DQ(ZN)H**																		
Dry Construction • Black LSZH Jacket																		
-30/70°C EN 50266-2-2 EN 50267-2-2 EN 50628-2																		
GCAGx04 **GCA**Gx06 **GCA**Gx08 **GCA**Gx12 **GCA**Gx18 **GCA**Gx24 **GCA**Gx30 **GCA**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	439.8 858.7	199.5 389.5	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.41	10.3	2.0	3000	20	–	155	206
GCAADx24 **GCA**ADx36 **GCA**ADx48 **GCA**ADx60 **GCA**ADx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888 13448	2100 4100	588.0 1147.9	266.7 520.7	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.48	12.2	2.7	3500	20	–	183	244
GCAEx84 **GCA**Ex96	84 (7x12) 96 (8x12)	6888 13448	2100 4100	736.1 1437.2	333.9 651.9	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.54	13.8	3.0/4.3	4000	20	–	207	276
GCAFx08 **GCA**Fx20 **GCA**Fx32 **GCA**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888 13448	2100 4100	1074.1 2097.0	487.2 951.2	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.67	17.0	3.0/7.5	4000	20	–	255	340
GCAMx16	216 (18x12)	6888 13448	2100 4100	1250.0 2440.5	567.0 1107.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.72	18.2	2.7	4000	20	–	273	364
GCAIx92	192 (8x24)	6888 13448	2100 4100	1273.2 2485.7	577.5 1127.5	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.71	18.0	3.0/6.0	4000	20	–	270	360
GCAJx88	288 (12x24)	6888	2100	1921.3	871.5	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.88	22.4	3.0/10.5	4000	20	–	336	448
GCALx32	432 (18x24)	6888	2100	1944.5	882.0	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.91	23.2	2.7/3.7	4000	20	–	348	464

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

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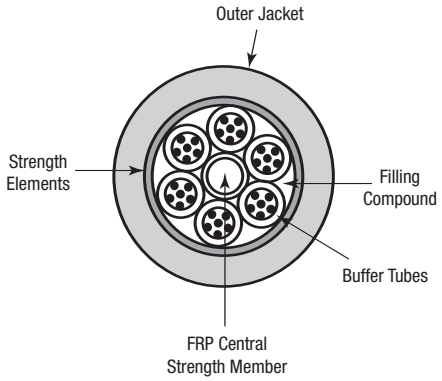
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Multi Loose Tube Cables

Universal – Indoor/Outdoor

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic
GEA • Loose Tubes*/PE Blind Elements are S-Z stranded Around the Central Element • Water-Blocked • **A/I-DF(ZN)H**																		
Filled Construction • Black LSZH Jacket																		
-30/70°C EN 50266-2-2 EN 50267-2-2 EN 50628-2																		
																		
GEAGx04 **GEA**Gx06 **GEA**Gx08 **GEA**Gx12 **GEA**Gx18 **GEA**Gx24 **GEA**Gx30 **GEA**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	449.1 876.8	203.7 397.7	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.39	10.0	2.0	3000	20	–	150	200
GEADx24 **GEA**Dx36 **GEA**Dx48 **GEA**Dx60 **GEA**Dx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888 13448	2100 4100	620.4 1211.2	281.4 549.4	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.47	12.0	2.7	3500	20	–	180	240
GEAEx84 **GEA**Ex96	84 (7x12) 96 (8x12)	6888 13448	2100 4100	787.0 1536.6	357.0 697.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.54	13.6	3.0/4.3	4000	20	–	204	272
GEAFx08 **GEA**Fx20 **GEA**Fx32 **GEA**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888 13448	2100 4100	1157.4 2259.7	525.0 1025.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.66	16.8	3.0/7.5	4000	20	–	252	336
GEAMx16	216 (18x12)	6888 13448	2100 4100	1342.6 2621.3	609.0 1189.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.69	17.5	2.7	4000	20	–	263	350
GEAIx92	192 (8x24)	6888 13448	2100 4100	1250.0 2440.5	567.0 1107.0	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.69	17.6	3.0/6.0	4000	20	–	264	352
GEAJx88	288 (12x24)	6888	2100	2013.9	913.5	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.87	22.1	3.0/10.5	4000	20	–	332	442
GEALx32	432 (18x24)	6888	2100	2129.6	966.0	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.89	22.5	2.7/3.7	4000	20	–	338	450

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

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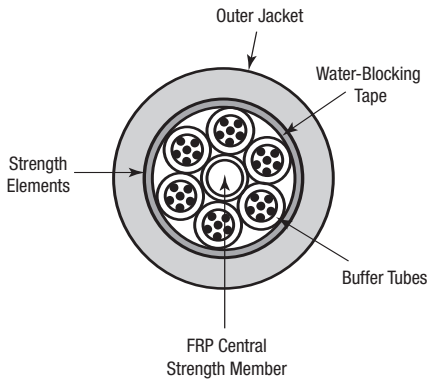
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Multi Loose Tube Cables

Universal – Indoor/Outdoor, Improved Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GCR • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A/I-DQ(ZN)BH**																		
Dry Construction • Black LSZH Jacket																		
-30/70°C EN 50266-2-2 EN 50267-2-2 EN 50268-2																		
																		
GCRGx04	4 (1x4)	6888	2100	597.2	270.9	Ø 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.46	11.8	2.0	3000	20	–	177	236
GCRGx06	6 (1x6)	13448	4100	1166.0	528.9												
GCRGx08	8 (2x4)																
GCRGx12	12 (2x6)																
GCRGx18	18 (3x6)																
GCRGx24	24 (4x6)																
GCRGx30	30 (5x6)																
GCRGx36	36 (6x6)																
GCRDx24	24 (2x12)	6888	2100	750.0	340.2	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.54	13.7	2.7	3500	20	–	206	274
GCRDx36	36 (3x12)	13448	4100	1464.3	664.2												
GCRDx48	48 (4x12)																
GCRDx60	60 (5x12)																
GCRDx72	72 (6x12)																
GCREx84	84 (7x12)	6888	2100	930.6	422.1	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.60	15.3	3.0/4.3	4000	20	–	230	306
GCREx96	96 (8x12)	13448	4100	1816.8	824.1												
GCRFx08	108 (9x12)	6888	2100	1277.8	579.6	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.73	18.5	3.0/7.5	4000	20	–	278	370
GCRFx20	120 (10x12)	13448	4100	2494.7	1131.6												
GCRFx32	132 (11x12)																
GCRFx44	144 (12x12)																
GCRMx16	216 (18x12)	6888	2100	1481.5	672.0	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.78	19.7	2.7	4000	20	–	296	394
		13448	4100	2892.4	1312.0												
GCRIx92	192 (8x24)	6888	2100	1481.5	672.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.77	19.5	3.0/6.0	4000	20	–	293	390
		13448	4100	2892.4	1312.0												
GCRJx88	288 (12x24)	6888	2100	2129.6	966.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.94	23.9	3.0/10.5	4000	20	–	359	478
GCRLx32	432 (18x24)	6888	2100	2129.6	966.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.97	24.7	2.7/3.7	4000	20	–	371	494

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

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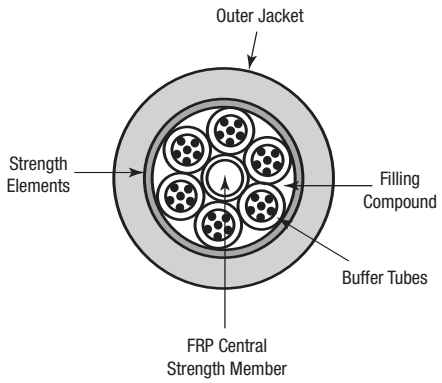
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Universal – Indoor/Outdoor, Improved Rodent Protection

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GER • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A/I-DF(ZN)BH**																		
Filled Construction • Black LSZH Jacket																		
-30/70°C EN 50266-2-2 EN 50267-2-2 EN 50268-2																		
GERGx04	4 (1x4)	6888	2100	601.9	273.0	Ø 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.45	11.5	2.0	3000	20	–	173	230
GERGx06	6 (1x6)	13448	4100	1175.1	533.0												
GERGx08	8 (2x4)																
GERGx12	12 (2x6)																
GERGx18	18 (3x6)																
GERGx24	24 (4x6)																
GERGx30	30 (5x6)																
GERGx36	36 (6x6)																
GERDx24	24 (2x12)	6888	2100	777.8	352.8	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.53	13.4	2.7	3500	20	–	201	268
GERDx36	36 (3x12)	13448	4100	1518.5	688.8												
GERDx48	48 (4x12)																
GERDx60	60 (5x12)																
GERDx72	72 (6x12)																
GEREx84	84 (7x12)	6888	2100	967.6	438.9	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.59	15.0	3.0/4.3	4000	20	–	225	300
GEREx96	96 (8x12)	13448	4100	1889.1	856.9												
GERFx08	108 (9x12)	6888	2100	1333.3	604.8	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.72	18.2	3.0/7.5	4000	20	–	273	364
GERFx20	120 (10x12)	13448	4100	2603.2	1180.8												
GERFx32	132 (11x12)																
GERFx44	144 (12x12)																
GERMx16	216 (18x12)	6888	2100	1527.8	693.0	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.75	19.0	2.7	4000	20	–	285	380
		13448	4100	2982.8	1353.0												
GERIx92	192 (8x24)	6888	2100	1435.2	651.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.75	19.0	3.0/6.0	4000	20	–	285	380
		13448	4100	2802.0	1271.0												
GERJx88	288 (12x24)	6888	2100	2222.2	1008.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.93	23.5	3.0/10.5	4000	20	–	353	470
GERLx32	432 (18x24)	6888	2100	2314.8	1050.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.94	24.0	2.7/3.7	4000	20	–	360	480

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



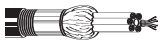
Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

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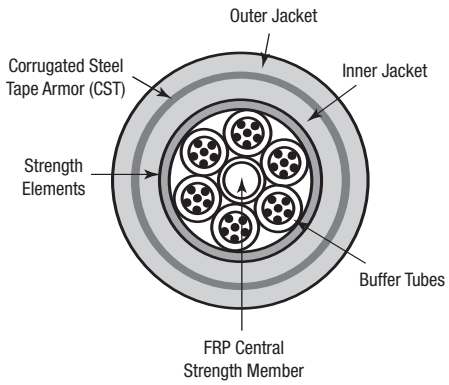
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Universal – Indoor/Outdoor, Full Rodent Protection, Corrugated Steel Tape Armor (CST)

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GCD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • CST • **A/I-DQ(ZN)H(SR)H**																		
Dry Construction • Double Black LSZH Jacket																		
-30/70°C EN 50266-2-2 EN 50267-2-2 EN 50268-2																		
																		
GCDGx04	4 (1x4)	6888	2100	1041.7	472.5	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.52	13.2	2.0	3000	50	–	198	264
GCDGx06	6 (1x6)	13448	4100	2033.7	922.5													
GCDGx08	8 (2x4)																	
GCDGx12	12 (2x6)																	
GCDGx18	18 (3x6)																	
GCDGx24	24 (4x6)																	
GCDGx30	30 (5x6)																	
GCDGx36	36 (6x6)																	
GCDDx24	24 (2x12)	6888	2100	1296.3	588.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.60	15.2	2.7	3500	50	–	228	304
GCDDx36	36 (3x12)																	
GCDDx48	48 (4x12)																	
GCDDx60	60 (5x12)																	
GCDDx72	72 (6x12)																	
GCDEx84	84 (7x12)	6888	2100	1574.1	714.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.69	17.4	3.0/4.3	4000	50	–	261	348
GCDEx96	96 (8x12)																	
GCDFx08	108 (9x12)	6888	2100	2055.6	932.4	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.81	20.5	3.0/7.5	4000	50	–	308	410
GCDFx20	120 (10x12)																	
GCDFx32	132 (11x12)																	
GCDFx44	144 (12x12)																	
GCDMx16	216 (18x12)	6888	2100	2268.5	1029.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.85	21.5	2.7	4000	50	–	323	430
GCDIx92	192 (8x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.85	21.5	3.0/6.0	4000	50	–	323	430
GCDJx88	288 (12x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.02	26.0	3.0/10.5	4000	50	–	390	520
GCDLx32	432 (18x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.04	26.5	2.7/3.7	4000	50	–	398	530

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



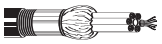
Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

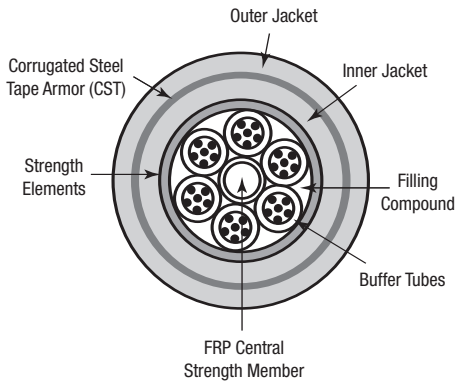
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Universal – Indoor/Outdoor, Full Rodent Protection, Corrugated Steel Tape Armor (CST)

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GED • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • CST • **A/I-DF(ZN)H(SR)H**																		
Filled Construction • Double Black LSZH Jacket																		
-30/70°C EN 50266-2-2 EN 50267-2-2 EN 50268-2																		
																		
GEDGx04 **GED**Gx06 **GED**Gx08 **GED**Gx12 **GED**Gx18 **GED**Gx24 **GED**Gx30 **GED**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	1050.9 2051.8	476.7 930.7	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.51	13.0	2.0	3000	50	–	195	260
GEDDx24 **GED**Dx36 **GED**Dx48 **GED**Dx60 **GED**Dx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888	2100	1324.1	600.6	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.59	15.0	2.7	3500	50	–	225	300
GEDEx84 **GED**Ex96	84 (7x12) 96 (8x12)	6888	2100	1606.5	728.7	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.67	17.1	3.0/4.3	4000	50	–	257	342
GEDFx08 **GED**Fx20 **GED**Fx32 **GED**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888	2100	2101.9	953.4	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.81	20.5	3.0/7.5	4000	50	–	308	410
GEDMx16	216 (18x12)	6888	2100	2361.1	1071.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.83	21.0	2.7	4000	50	–	315	420
GEDIx92	192 (8x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.83	21.0	3.0/6.0	4000	50	–	315	420
GEDJx88	288 (12x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.00	25.5	3.0/10.5	4000	50	–	383	510
GEDLx32	432 (18x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.02	26.0	2.7/3.7	4000	50	–	390	520

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



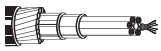
Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

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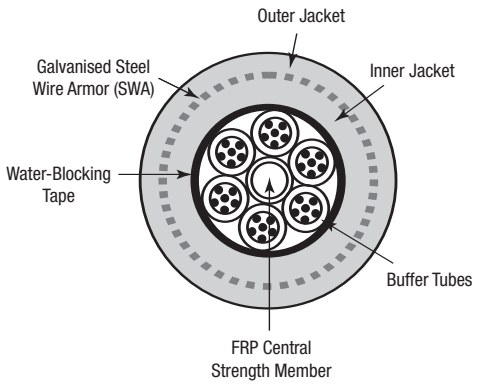
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Multi Loose Tube Cables

Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GCW • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • SWA • **A/I-DQHBH (R1.0vzk)**																		
Dry Construction • Double Black LSZH Jacket																		
-30/70°C EN 50266-2-2 EN 50267-2-2 EN 50268-2																		
																		
GCWGx04 **GCW**Gx06 **GCW**Gx08 **GCW**Gx12 **GCW**Gx18 **GCW**Gx24 **GCW**Gx30 **GCW**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	1574.1 3073.2	714.0 1394.0	Ø 250 ± 15	0.07	1.9	–	0.54	13.6	2.0	8000	50	–	204	272
GCWDx24 **GCW**Dx36 **GCW**Dx48 **GCW**Dx60 **GCW**Dx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888 13448	2100 4100	1912.0 3733.0	867.3 1693.3	Ø 250 ± 15	0.10	2.5	–	0.61	15.5	2.7	8000	50	–	233	310
GCWEx84 **GCW**Ex96	84 (7x12) 96 (8x12)	6888 13448	2100 4100	2152.8 4203.1	976.5 1906.5	Ø 250 ± 15	0.10	2.5	–	0.67	17.0	3.0/4.3	8000	50	–	255	340
GCWFx08 **GCW**Fx20 **GCW**Fx32 **GCW**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888 13448	2100 4100	2916.7 5694.5	1323.0 2583.0	Ø 250 ± 15	0.10	2.5	–	0.80	20.2	3.0/7.5	8000	50	–	303	404
GCWMx16	216 (18x12)	6888	2100	3101.9	1407.0	Ø 250 ± 15	0.10	2.5	–	0.83	21.0	2.7	8000	50	–	315	420
GCWIx92	192 (8x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	0.83	21.0	3.0/6.0	8000	50	–	315	420
GCWJx88	288 (12x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	1.00	25.5	3.0/10.5	8000	50	–	383	510
GCWLx32	432 (18x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	1.02	26.0	2.7/3.7	8000	50	–	390	520

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



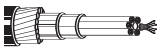
Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

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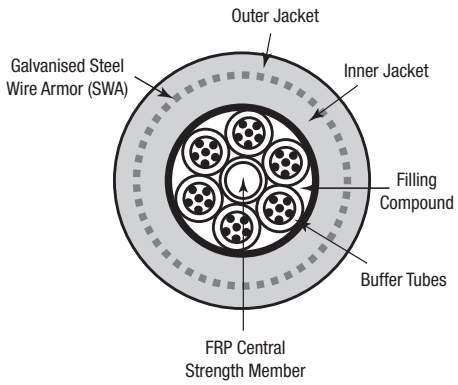
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Multi Loose Tube Cables

Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

Description	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dynamic
GEW • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • SWA • **A/I-DFHBH (R1.0vzk)**																		
Filled Construction • Double Black LSZH Jacket																		
-30/70°C EN 50266-2-2 EN 50267-2-2 EN 50268-2																		
																		
GEWGx04 **GEW**Gx06 **GEW**Gx08 **GEW**Gx12 **GEW**Gx18 **GEW**Gx24 **GEW**Gx30 **GEW**Gx36	4 (1x4) 6 (1x6) 8 (2x4) 12 (2x6) 18 (3x6) 24 (4x6) 30 (5x6) 36 (6x6)	6888 13448	2100 4100	1574.1 3073.2	714.0 1394.0	Ø 250 ± 15	0.07	1.9	–	0.53	13.5	2.0	8000	50	–	203	270
GEWDx24 **GEW**Dx36 **GEW**Dx48 **GEW**Dx60 **GEW**Dx72	24 (2x12) 36 (3x12) 48 (4x12) 60 (5x12) 72 (6x12)	6888 13448	2100 4100	1944.5 3796.3	882.0 1722.0	Ø 250 ± 15	0.10	2.5	–	0.61	15.5	2.7	8000	50	–	233	310
GEWEx84 **GEW**Ex96	84 (7x12) 96 (8x12)	6888 13448	2100 4100	2199.1 4293.5	997.5 1947.5	Ø 250 ± 15	0.10	2.5	–	0.66	16.8	3.0/4.3	8000	50	–	252	336
GEWFx08 **GEW**Fx20 **GEW**Fx32 **GEW**Fx44	108 (9x12) 120 (10x12) 132 (11x12) 144 (12x12)	6888 13448	2100 4100	2963.0 5784.9	1344.0 2624.0	Ø 250 ± 15	0.10	2.5	–	0.80	20.2	3.0/7.5	8000	50	–	303	404
GEWMx16	216 (18x12)	6888	2100	3101.9	1407.0	Ø 250 ± 15	0.10	2.5	–	0.81	20.6	2.7	8000	50	–	309	412
GEWIx92	192 (8x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	0.81	20.5	3.0/6.0	8000	50	–	308	410
GEWJx88	288 (12x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	0.98	25.0	3.0/10.5	8000	50	–	375	500
GEWLx32	432 (18x24)	6888	2100	–	–	Ø 250 ± 15	0.14	3.5	–	1.00	25.5	2.7/3.7	8000	50	–	383	510

Color Code: see chart page 16.23
Loose tubes: 1. Red, 2. Green, rest of tubes White
Blind elements: Clear



Optical characteristics see page 16.21.
* jelly-filled, non-dripping and silicone-free

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Interconnect Cables – Simplex and Duplex

Tight Buffer – Plenum Rated

Applications

- Patch panels
- Workstation equipment connections
- Horizontal distribution in open office environments

Product Description

Interconnect cables are designed for low fiber-count premises environments. They are small and very flexible, making them ideal for confined spaces. Their aesthetic appearance makes these cables suitable for use in open office environments. Available in 1 or 2 fibers. One sub-unit is marked to permit easy identification of transmit and receive fibers. Length markings to facilitate installation.

Jacket Material	PVC
Tight Buffer	PVC
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per EIA/TIA 598-A, see page 16.24
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm/1 Gbe	Orange
50/125 µm/10 Gbe	Aqua

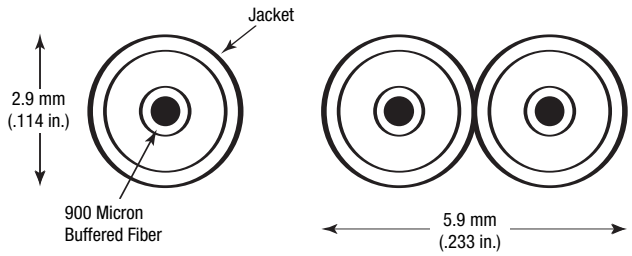
Ratings

Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	200 N/cm
Impact Resistance (EIA-455-25)	20 Impacts @ 1.0 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15xOD
Long term	10xOD
Optical Specifications	see page 16.24

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5/125 µm Std./1 Gbe	50.0/125 µm Std./1 Gbe	50.0/125 µm 10 Gbe - 300M	Single-Mode Enhanced	inch	mm	lbs./1000′	kg/km	lbs.	N
Interconnect Cable Series										
Plenum (NEC/CEC OFNP/OFN FT6)										
1	**M98086**	**M9A003**	**M9C003**	**M9W003**	0.114	2.9	6	9	90	400
2	**M96919**	**M9A004**	**M9C004**	**M9W004**	0.11 x 0.23	2.9 x 5.9	13	19	180	801

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Distribution Cables

Tight Buffer – Indoor Plenum Rated

Applications

- Low to high fiber count requirements
- In-building backbone
- Fiber-to-the-desk applications
- Computer room

Product Description

Flexible thermoplastic jacket provides excellent handling characteristics. Fibers and cable sub-units are color coded for easy identification. Length markings in meters for easy determination of cable length. Full dielectric construction, no grounding required. For Riser offering, MSHA approved cables are available.

Jacket Material	
Non-unitized Plenum	PVC
Unitized Plenum	PVDF
Tight Buffer	
Plenum	PVC
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per EIA/TIA 598-A, see page 16.24
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange (Green for LSZH only)
50/125 µm/1 Gbe	Orange
50/125 µm/10 Gbe	Aqua

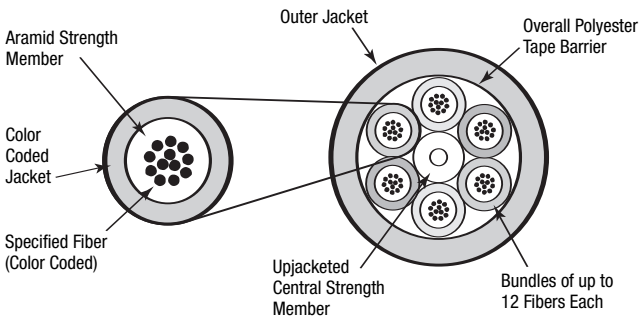
Ratings

Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15xOD
Long term	10xOD
Optical Specifications	see page 16.24

Fiber Bundle Detail



2 – 12 FIBERS **>12 – 144 FIBERS**

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Distribution Cables

Tight Buffer – Indoor Plenum Rated *(continued)*

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5/125 µm Std./1 Gbe	50.0/125 µm Std./1 Gbe	50.0/125 µm 10 Gbe - 300M	Single-Mode Enhanced	inch	mm	lbs./1000′	kg/km	lbs.	N
Distribution Cable Series										
Plenum (NEC/CEC OFNP/OFN FT6)										
2	**M9B043**	**M9A043**	**M9C043**	**M9W043**	0.184	4.67	14	21	180	801
4	**M9B044**	**M9A044**	**M9C044**	**M9W044**	0.174	4.42	13	19	195	867
6	**M9B045**	**M9A045**	**M9C045**	**M9W045**	0.190	4.83	16	24	270	1201
8	**M9B046**	**M9A046**	**M9C046**	**M9W046**	0.222	5.64	19	28	270	1201
12	**M9B048**	**M9A048**	**M9C048**	**M9W048**	0.225	5.72	22	33	300	1334
24	**M9B611***	**M9A611***	**M9C611***	**M9W611***	0.330	8.38	40	60	390	1735
24	**M9B612**	**M9A612**	**M9C612**	**M9W612**	0.493	12.52	89	132	1263	5618
36	**M9B614**	**M9A614**	**M9C614**	**M9W614**	0.594	15.09	134	199	1913	8509
48	**M9B616**	**M9A616**	**M9C616**	**M9W616**	0.599	15.21	131	195	1245	5538
72	**M9B620**	**M9A620**	**M9C620**	**M9W620**	0.754	19.15	197	293	2093	9310
96	**M9B623**	**M9A623**	**M9C623**	**M9W623**	0.904	22.96	268	399	2160	9608
144	**M9B621**	**M9A621**	**M9C621**	**M9W621**	1.047	26.59	365	543	3645	16213
Composite Plenum Cables										
6xSM/ 6x62.5	**M97174**									
6xSM/ 12x62.5	**M97041**									
12xSM/ 12x62.5	**M97219**									
6xSM/ 6x50	**M97412**									
6xSM/ 12x50	**M97411**									
12xSM/ 12x50	**M96780**									

Construction for LSZH cables differs from the drawing. Alternative fiber counts are available.
* Single jacket design.

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Breakout Style Cables

Tight Buffer — Indoor Plenum Rated

Applications

- Low to medium fiber count requirements
- In-building backbone or horizontal deployment
- Office wiring
- Factory floor automation and harsh environment installations

Product Description

Full dielectric construction, no grounding required. Available with 2 to 36 fibers. Fiber subunits are color coded for easy identification. Length markings in meters for easy determination of cable length. For riser offering, MSHA approved cables are available.

Outer Jacket Material	
Riser & Plenum	PVC
Plenum	PVDF
Sub-unit Jacket Material	
Riser & Plenum	PVC
Tight Buffer	
Riser & Plenum	PVC
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per EIA/TIA 598-A, see page 16.24
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange (Green for LSZH only)
50/125 µm/1 Gbe	Orange
50/125 µm/10 Gbe	Aqua

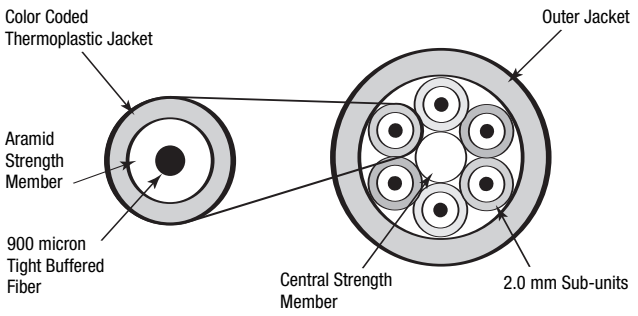
Ratings

Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15xOD
Long term	10xOD
Optical Specifications	see page 16.24

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5/125 µm Std./1 Gbe	50.0/125 µm Std./1 Gbe	50.0/125 µm 10 Gbe - 300M	Single-Mode Enhanced	inch	mm	lbs./1000′	kg/km	lbs.	N
Breakout Cable Series										
Plenum (NEC/CEC OFNP/OFN FT6)										
2	**M9B013**	**M9A013**	**M9C013**	**M9W013**	0.230	5.84	20	30	180	801
4	**M9B014**	**M9A014**	**M9C014**	**M9W014**	0.263	6.68	30	45	345	1535
6	**M9B015**	**M9A015**	**M9C015**	**M9W015**	0.309	7.85	41	61	465	2068
8	**M9B016**	**M9A016**	**M9C016**	**M9W016**	0.336	8.53	55	82	600	2700
10	**M9B017**	**M9A017**	**M9C017**	**M9W017**	0.385	9.78	73	109	600	2700
12	**M9B018**	**M9A018**	**M9C018**	**M9W018**	0.391	9.93	65	97	600	2700
18	**M9B019**	**M9A019**	**M9C019**	**M9W019**	0.456	11.58	89	132	600	2700
24	**M9B020**	**M9A020**	**M9C020**	**M9W020**	0.544	13.82	117	174	600	2700
36	**M9B082**	**M9A082**	**M9C082**	**M9W082**	0.612	15.54	154	229	600	2700

2.5 mm Breakout Cables are also available.

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Industrial Armored Cables

Tight Buffer — Indoor Plenum Rated *(continued)*

Applications

- Industrial environments
- Rugged installations
- Manufacturing plants
- Mining operations
- Telecommunications and data trunk
- Inter- and intra-building installations

Product Description

Heavy duty construction with interlocking aluminum armor (steel available on request) provides excellent mechanical protection from cutting or crushing and eliminates need for innerduct. Rodent resistant. Also available for outside plant. Loose tube design available on request.

Jacket Material	
Plenum	PVC
Buffer Tube	PVC
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Armor	Aluminum
Color Code (Buffer)	Per EIA/TIA 598-A, see page 16.24
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm/1 Gbe	Orange
50/125 µm/10 Gbe	Aqua

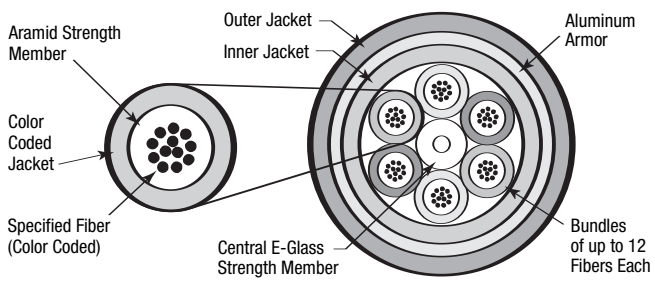
Ratings

Plenum	
UL Type	OFCP
cUL Type	OFC FT6
Flame resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 3.0 N-m
Min. Bend Radius	
Installation	20xOD
Long term	15xOD
Optical Specifications	see page 16.24

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	62.5/125 µm Std./1 Gbe	50.0/125 µm Std./1 Gbe	50.0/125 µm 10 Gbe - 300M	Single-Mode Enhanced	inch	mm	lbs./1000′	kg/km	lbs.	N
Industrial Armored Series										
Plenum (NEC/CEC OFCP/OFC FT6)										
6	**M9B240**	**M9A240**	**M9C240**	**M9W240**	0.471	12.00	87	129	270	1201
12	**M9B241**	**M9A241**	**M9C241**	**M9W241**	0.506	12.90	103	153	300	1334
24	**M9B242***	**M9A242***	**M9C242***	**M9W242***	0.631	16.00	151	225	390	1735
24	**M9B243**	**M9A243**	**M9C243**	**M9W243**	0.781	19.84	289	430	600	2700
36	**M9B244**	**M9A244**	**M9C244**	**M9W244**	0.881	22.38	309	460	600	2700
48	**M9B245**	**M9A245**	**M9C245**	**M9W245**	0.906	23.01	320	476	600	2700
72	**M9B246**	**M9A246**	**M9C246**	**M9W246**	1.056	26.82	451	671	600	2700
96	**M9B247**	**M9A247**	**M9C247**	**M9W247**	1.256	31.90	608	905	600	2700
144	**M9B248**	**M9A248**	**M9C248**	**M9W248**	1.331	33.81	687	1022	600	2700

All optical fiber products can be supplied in compliance with RoHS regulations.
*Single jacket design.

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Single Jacket, All Dielectric Cable

Loose Tube – Indoor/Outdoor Plenum Rated

Applications

- Medium to high fiber count requirements
- Inter-building duct installations
- Lashed aerial
- Indoor/outdoor
- Campus backbones
- Data centers
- High-density cable trays

Product Description

Dry water-blocking technology used within tubes and under jacket. Available as plenum rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Small diameter and bend radius facilitate installation in tight spaces. Full dielectric construction, no grounding required. Available with up to 144 fibers. Fibers grouped into sets of 12 for maximum density. Length markings in meters for easy determination of cable length.

Jacket Material	
Non-unitized	PVC
Unitized	PVDF
Buffer Tube	PVC
Strength Member	E-Glass and Aramid Yarn
Central Strength Member	Upjacketed
Color Code (Buffer)	Per EIA/TIA 598-A, see page 16.24
Jacket Color	Black

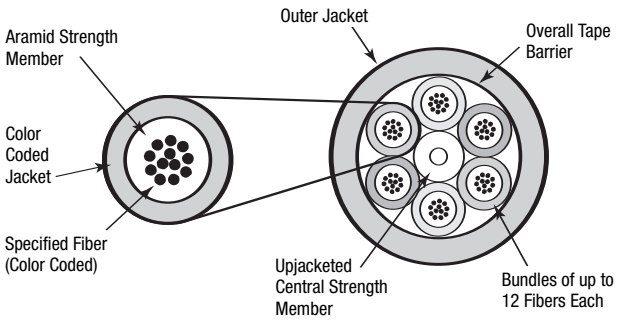
Ratings

Plenum	
UL Type	OFNP
cUL Type	OFN FT6
Flame resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-40 to +70°C
Installation	0 to +60°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	20xOD
Long term	15xOD
Optical Specifications	see page 16.24

Fiber Bundle Detail



2 – 12 FIBERS **>12 – 144 FIBERS**

No. of Fibers	Fibers per tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		62.5/125 µm Std./1 Gbe	50.0/125 µm Std./1 Gbe	50.0/125 µm 10 Gbe - 300M	Single-Mode Enhanced	inch	mm	lbs./1000′	kg/km	lbs.	N
Loose Tube Series											
Plenum (NEC/CEC OFNP/OFN FT6)											
6	6	**M9B202**	**M9A202**	**M9C202**	**M9W202**	0.265	6.70	33	49	320	1423
12	12	**M9B204**	**M9A204**	**M9C204**	**M9W204**	0.265	6.70	33	49	320	1423
24	12	**M9B205**	**M9A205**	**M9C205**	**M9W205**	0.359	9.12	47	70	405	1801
36	12	**M9B206**	**M9A206**	**M9C206**	**M9W206**	0.359	9.12	47	70	405	1801
48	12	**M9B207**	**M9A207**	**M9C207**	**M9W207**	0.359	9.12	48	71	405	1801
72	12	**M9B209**	**M9A209**	**M9C209**	**M9W209**	0.429	10.90	71	106	585	2602
96	12	**M9B211**	**M9A211**	**M9C211**	**M9W211**	0.501	12.73	105	156	903	4017
144	12	**M9B215**	**M9A215**	**M9C215**	**M9W215**	0.665	16.89	189	281	1263	5618

Alternative fiber counts and hybrid constructions are available.

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BELDEN
SENDING ALL THE RIGHT SIGNALS



17 Commercial Networking – Training

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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Belden IBDN Training

Overview



Ensuring Competency Worldwide

The Belden IBDN training center has been an integral part of the structured cabling industry landscape for over 14 years, having earned an international reputation for delivering the industry's most comprehensive and effective structured cabling training.

This reputation is forged on the experiences of more than 65000 students trained worldwide since 1991. Today, the Belden IBDN training center serves the needs of more than 5000 students each year. Our goal is to provide our students with the skills and knowledge necessary to ensure the highest quality and optimal performance in every Belden IBDN system that they design and install.

Ensuring competency and understanding of new technologies, techniques and industry standards is a key goal in our course development. Each Belden IBDN training course is regularly updated to include the most current information on Belden IBDN products and practices, as well as new developments in cabling industry standards.

Learn from the Experts

Belden IBDN instructors have combined experience of well over 100 years in the planning, design and installation of structured cabling systems. In addition to real life experiences, most are BICSI™ accredited RCDD and RCDD/LAN specialists, and many have additional technical credentials from industry leaders such as Microsoft™ and Cisco Systems™. Many of them have taught Belden IBDN courses all around the world, and all have the industry knowledge and professional teaching style that maximizes the learning experience.

The Purpose of the Belden IBDN Training Center

To ensure solid and optimal network performance, a cabling system supplier should be evaluated on the following criteria:

- Credibility and industry standing
- System offerings
- Customer care
- Business partners
- Warranty program

Through the Belden IBDN training center, Belden ensures that our students and business partners consistently and accurately represent Belden IBDN systems, products, and installation standards, with the goal of optimizing network performance.

For More Information and Registration

For information on course dates, locations and fees, please refer to: www.beldenibdn.com.
Or contact your nearest Belden office. Please look at the back cover of this catalog for this.

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Belden IBDN Training

Course Descriptions



Belden IBDN 305

Introduction to Belden

(by correspondence on CD Rom)

Who Should Attend:

End-users, networking and structured cabling sales people

Course Benefits:

Provides students with an overview of Belden as a leader in telecommunications and offers an overall picture of the Belden IBDN Systems and products, as well as the positioning of Belden in the industry.

What will be Covered:

- Introduction to cabling
- Overview of Belden IBDN systems and products, including:
  - GigaFlex cables: 1200, 2400, 4800LX,
  - Bonded-pair cables: DataTwist 350, MediaTwist®, DataTwist® 600e,
  - GigaBIX, Fiber*Express*, IntelliMAC-Plus, PowerSense and 10GX solutions.
- Certification and exercises
- Case studies
- Reference materials

Prerequisite: None
Written Exam: Yes
BICSI CECs: RCDD (7), INS, Level 2/Technician (7)

Belden IBDN 201/202

Project Management for Belden IBDN including Belden IBDN System Audit

(2 days)

Who Should Attend:

Installation managers, installation supervisors participant must be familiar with Belden IBDN systems as well as the certification program

Course Benefits:

Develop the skills to recognize the scale of the project and therefore be prepared to put an efficient work plan in place in order to deliver the project on time.

Gain an understanding of the Belden IBDN system design and installation requirements as related to the Belden IBDN certification program.

Learn how to conduct and write audit reports.

What will be Covered:

- Project manager responsibilities
- Project planning
- Project execution
- Project closing
- When, why and how audits are conducted
- Audit preparation
- Audit visit
- Audit report

Prerequisites: Belden IBDN-303* and Belden IBDN-700*
*Taken after January 2001
Written Exam: Yes, two
BICSI CECs: RCDD (14), RCDD/LAN (14), INS, Level 2/Technician (12), OSP (14), RES (12)

General Course Information

- Our courses are recognized by BICSI and earn BICSI Continuing Education Credits (CECs).
- Our courses qualify students by giving them a professional recognition that may accelerate their career advancement.
- In addition to the cabling contractor community, our courses are recognized and valued by end-customers, architects, engineers and consultants as well. If you need to increase your knowledge of structured cabling systems, the Belden IBDN training center is an excellent training investment.
- Our course content is offered in many different languages including English, French, Japanese, Spanish, Mandarin and Cantonese.
- Refresher courses for pre-qualified students are also available.
- Special rates and group discounts are available.
- Fees include a certificate of completion for selected courses, continental breakfast, coffee breaks and course materials.

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Belden IBDN Training
Course Descriptions

Belden IBDN 303

Belden IBDN Design and Concept
(2 days – Can also be provided by correspondence on CD Rom)

Who Should Attend:

Architects, designers, networking consultants

Course Benefits:

Gain the ability to design a Belden IBDN structured cabling system.

Learn about standards and planning procedures related to the installation of structured cabling systems.

What will be Covered:

- Belden IBDN systems and products:
  - GigaFlex cables: 1200, 2400, 4800LX,
  - Bonded-pair cables: DataTwist® 350, MediaTwist®, DataTwist® 600e,
  - GigaBIX, Fiber*Express*, IntelliMAC-Plus, PowerSense and 10GX solutions
- Structured cabling overview
- Standards update
- Horizontal distribution standards
- Backbone distribution standards
- Entrance facility
- Bonding and grounding
- Reference materials
- 60% In-class exercises

Prerequisite: None
Written Exam: Yes
BICSI CECs: RCDD (14), INS, Level 2/Technician (14)

Belden IBDN 700

Belden IBDN Installation
(2 days)

Who Should Attend:

Belden Certified System Vendor (CSV) installers, and distributors

Course Benefits:

Develop a fundamental understanding of a Belden IBDN structured cabling system.

Gain valuable experience on how to install and maintain a complete Belden IBDN structured cabling system.

What will be Covered:

- Belden company overview
- Structured cabling history
- Standards overview
- Belden IBDN systems and products:
  - GigaFlex cables: 1200, 2400, 4800LX,
  - Bonded-pair cables: DataTwist® 350, MediaTwist®, DataTwist® 600e,
  - GigaBIX and Fiber*Express* solutions
- Certification overview
- Installation preambles for Belden IBDN Systems
- Work area products installation:
  - GigaFlex Modules, faceplates and workstation outlets
- BIX and GigaBIX solutions:
  - IDC system installation
  - Wall mount, rack-mount patch panel system installation
- Modular jack and patch cord system

What will be Covered *(continued)*:

- High-density PS5E/PS6+ patch panel system
- PS5E patch box and multi-user box
- PS5E DVO outlets, MDVO adapters and EZ-MDVO modules
- Optical fiber overview
  - Belden IBDN Fiber*Express* systems and products
  - Products overview, fiber termination, (1U/2U), (3U) and (4U) patch panel installation
- OPTIMAX field installable connector (ST, SC, LC)
- Breakout kit installation
- 10GX solution overview
- Reference materials
- 75% In-class exercises

Prerequisite: None
Written Exam: No
BICSI CECs: RCDD (14), INS, Level 2/Technician (14)

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Belden IBDN Training
Course Descriptions

Belden IBDN 726

Belden IBDN Copper Products
(1 day)

Who Should Attend:

Structured cabling installers

Course Benefits:

Gain the ability to install copper structured cabling systems.

What will be Covered:

- Belden company overview
- Belden IBDN systems and products:
  - GigaFlex cables: 1200, 2400, 4800LX,
  - Bonded-pair cables: DataTwist® 350, MediaTwist®, DataTwist® 600e,
  - GigaBIX
- Installation preambles for Belden IBDN systems
- Work area products installation:
  - GigaFlex modules, faceplates and workstation outlets
- BIX and GigaBIX solutions:
  - IDC system installation
  - Wall mount, rack mount patch panel system installation
- Modular jack and patch cord system
- High-density PS5E/PS6+ patch panel system
- PS5E patch box and multi-user box
- PS5E DVO outlets, MDVO adapters and EZ-MDVO modules
- 10GX solution overview
- Reference materials
- 75% In-Class exercises

Prerequisites: None
Written Exam: No
BICSI CECs: RCDD (7), INS, Level 2/Technician (7)

Belden IBDN 746

Belden IBDN Fiber Products
(1 day)

Who Should Attend:

Structured cabling installers

Course Benefits:

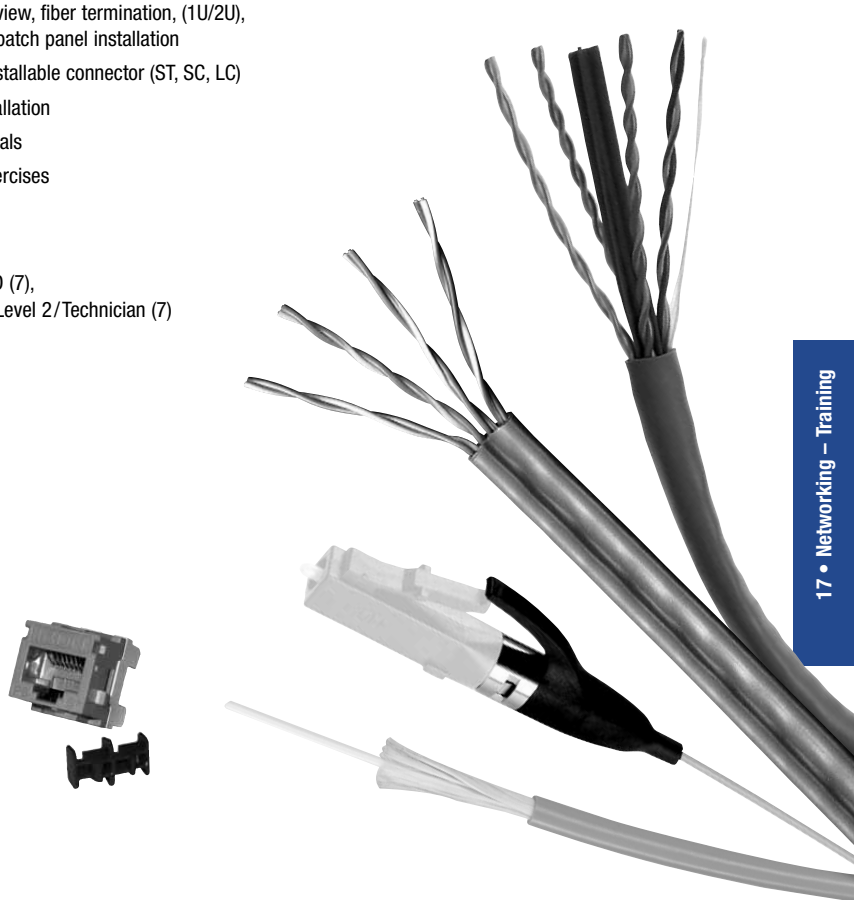
Gain an understanding of the principles behind optical fiber cabling media.

Gain the ability to install optical fiber components and solutions.

What will be Covered:

- Belden company overview
- Optical fiber overview
  - Belden IBDN Fiber*Express* system and products
  - Products overview, fiber termination, (1U/2U), (3U) and (4U) patch panel installation
- OPTIMAX field installable connector (ST, SC, LC)
- Breakout kit installation
- Reference materials
- 75% In-class exercises

Prerequisite: None
Written Exam: No
BICSI CECs: RCDD (7), INS, Level 2/Technician (7)



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Belden IBDN Training
Course Descriptions

Belden IBDN 726

Belden IBDN End-to-End Installation and Testing – Copper Media
(2 days)

Who Should Attend:

Belden channel partners or employees contractors, technicians, supervisors, engineers and designers

Course Benefits:

Learn detailed installation methods of key copper Belden IBDN system components.

Learn appropriate methods and procedures of testing copper Belden IBDN systems.

What will be Covered:

- Review Belden IBDN systems and key copper components
- Basic balanced twisted-pair transmission and performance theories
- Installation practice reviews
- Installation and testing of End-to-End systems
- In detail, installation methods of:
  - Copper Belden IBDN systems components,

Belden IBDN 1200, 2400 and 4800LX Systems including:

  - GigaFlex cables: 1200, 2400 and 4800LX,
  - Bonded-pair cables: DataTwist® 350, MediaTwist®, DataTwist® 600e
- Learn testing methods of Belden IBDN systems and how to troubleshoot typical problems
- Understand the correlation between:
  - Basic theories of end-to-end system transmission,
  - Component and system installation practices,
  - Test results and system performances
- 10GX solution overview
- 90% In-class exercises

Prerequisite: None
Written Exam: Yes
BICSI CECs: RCDD (14), INS, Level 2/Technician (14)

Belden IBDN 746

Belden IBDN End-to-End Installation and Testing – Optical Fiber Media
(2 days)

Who Should Attend:

Belden channel partners or employees contractors, technicians, supervisors, engineers and designers

Course Benefits:

Learn detailed installation methods of key Belden IBDN Fiber*Express* system components.

Learn appropriate methods and procedures of testing Belden IBDN Fiber*Express* systems.

What will be Covered:

- Review Belden IBDN Fiber*Express* systems and key fiber components
- Basic optical fiber transmission and performance theories
- Installation practice reviews
- Installation and testing of End-to-End systems
- In detail, installation methods of:
  - Belden IBDN Fiber*Express* system components,
  - Belden IBDN Fiber*Express* systems including: multimode (FX300, FX600 and FX2000) and single-mode systems
- Learn testing methods of Belden IBDN systems and how to troubleshoot typical problems
- Understand the correlation between:
  - Basic theories of end-to-end system transmission,
  - Component and system installation practices,
  - Test results and system performances
- 90% In-class exercises

Prerequisite: None
Written Exam: Yes
BICSI CECs: RCDD (14), INS, Level 2/Technician (14)



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INDUSTRIALTUFF™



18 Industrial Cables



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ControlNet™ is a ControlNet International trademark.
ODVA DeviceNet™ is an Open DeviceNet Vendor Association Inc. trademark.
Seriplex® is a Square D/Schneider AEG registered trademark.

Please refer to "Terms of Use of Master Catalog" on page 23.22.

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Introduction

INDUSTRIALTUFF™

Tough Cables that Keep Performing.

High performance cabling solutions have changed the face of modern production facilities, manufacturing processes and the industrial infrastructure. Today, industry depends on reliability and demands long life, superb performance, often in the toughest of environments – in practice, that means peace of mind to get on with the job.

Key applications

- Programmable logic controllers
- Human machine interfaces
- Remote I/O
- 4-20 mAmp systems (PLTC & TC instrumentation)

IndustrialTuff™

This is the world's most comprehensive line of industrial cabling solutions – whether for networking factory floor equipment, hardware and controllers or relaying data between the control room, the engineering department and remote manufacturing sites or a combination of all the above. Belden industrial cables are designed to provide reliable communication between corporate headquarters and the plant, management and employees and everywhere in between.

Industrial Solutions

- **Industrial Ethernet:** Networking Cables with Installable Performance™
  The reliability of an industrial ethernet network fully depends on the cable infrastructure. Transmission errors can result in lost production time – and even downtime or safety issues. Belden understands the critical nature and demands of each industry and has designed its industrial ethernet cables to provide top performance for different, often very demanding, industrial applications.

  Belden's patented bonded-pair cable constructions are included in the range of industrial ethernet products. Bonded-pair technology means installable performance – where cables are designed to withstand the pulling, bending, kinking, coiling and crushing that routinely takes place during installation.

- **Industrial Data Solutions®**
  Belden's full range of Industrial Data Solutions® includes cables for all types of bus applications such as Profibus, Fieldbus, DeviceNet™, ControlNet™, InterBus-S®.

  Belden practically invented Blue Hose® twinax cables from the original IBM specification; today these are the dominant call-out for PLC and DCS applications.

  ControlBus quad shielded coax cables are for ControlNet™ applications – all Belden industrial coax cables provide the dependability for long-lasting performance. Also available is a full range of cables for Profibus and Fieldbus applications, as well as DeviceBus cables for ODVA DeviceNet™ systems.

  In addition, Belden offers a wide range of Variable Frequency Drive (VFD) cables, Control and Instrumentation cables and the Infinity® line of flexible automation cables.

- **Diverse Manufacturing Facilities**
  Belden cables can have many different characteristics to meet the requirements of different industrial cabling applications. The cables are resistant to:
  - Effects of temperature
  - UV sunlight
  - Oils
  - Gasoline
  - Other chemical solvents

- **Belden Infinity® Flexible Automation Cable**
  Belden Infinity is used when the application requires highly flexible cables offering exceptional life and performance.
  - Reduced Cable Memory
    Belden Infinity's unique design and neutralized cabling, results in cables that are relaxed, with almost no memory.
  - Greater Flex Life
    Belden Infinity cables offer superior flexibility and are able to handle the vigorous motions and high speeds encountered in automated equipment.
  - Greater System Uptime
    Belden Infinity cables combine specialized manufacturing techniques with precision copper stranding and rugged insulation and jacketing compounds to maximize flex life and reliability.
  - No Talc Problems
    Unlike the potentially harmful talc used in other cables, Belden's non-toxic, non-irritating slipper compound facilitates flexing and also complies with OSHA regulations. It's safer for employees and operators and is less likely to contaminate solder joints or mechanical compounds.
  - CE Conformity
    All Belden Infinity cables are CE marked per the Conformité Européenne low voltage directive, allowing trade of product in Europe.
  - Custom Designs
    Other designs available upon request.

- **Armoring Capabilities**
  Belden offers both steel wire armor and interlocking (steel or aluminum) armor for extra protection against crushing and abrasion. Other solutions can be tailored to particular requirements.

To Specify Part Number:		
1	2	3456
Overall Jacket Type	Armor Type	Core Trade Number

Overall Jacket Type

Code	Material
1	PVC
3	CPE
4	TPE
5	HDPE
6	Oil Res II
7	Haloarrest®

Armor Type

Code	Material
2	Aluminum Interlock
3	Steel Interlock
8	Continuous Corrugated Aluminum

Availability

Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find an Industrial cable in this catalog section that meets your technical requirements, see our U.S. Master Catalog or contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

Corresponding Literature

Product Bulletins
CB001: Belden's instrumentation & control capabilities
NP158: Blue Hose® cables

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Introduction

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NP159: DeviceBus® cables for DeviceNet™ applications
NP164: Profibus® cables for Fieldbus applications
NP165: Seriplex® cables
NP177: Cable preparation tool for bonded-pair cables
NP185: Multimedia cables for analog & digital system controllers
NP195: IndustrialTuff® ControlBus® Low-loss coax cables
NP196: Industrial Fieldbus cables
NP218: Infinity® cables for factory automated systems
NP224: Cables for variable-frequency AC motor drive applications
NP231: Belden expands the DataTuff® Category 5e and 6

PLC/DCS Cable Cross Reference Guide

PLC/DCS Manufacturer	System Name		Belden Part No.
ABB/ Bailey Controls	Infinet		9880 Network Trunk Cable 9463 Blue Hose® (Standard) 9463LS Steel Wire Armor (9463) 9463NH Low-Smoke, Halogen-Free (9463)
	Masterpiece 200		9880 Network Trunk Cable 9907 Thin Network Trunk Cable
	MICRO-DCI		3105A 1 Pair, RS-485
	MICROLINK		9860 Twinax, 16 AWG, 124 Ohm 9860LS Steel Wire Armor (9860) 9860NH Low-Smoke, Halogen-Free (9860)
	Modcell		3105A 1 Pair, RS-485
Allen-Bradley/ Rockwell Automation	ControlNet™		See Protocol Listings on page 18.5
	DeviceNet™		See Protocol Listings on page 18.5
	DH		9463 Blue Hose® (Standard) 9463LS Steel Wire Armor (9463) 9463NH Low-Smoke, Halogen-Free (9463) 9463F Flexible Version (9463) 129463 Aluminum Armor (9463) 139463 Steel Armor (9463) 189463 Cast Aluminum (9463) YR28826 Dual Version (9463) 9463DB Direct Burial (9463) YR29565 Various Color Jackets (9463) 3072F 600V TC Rated (9463) YR28764 Super Thick (PLTC) 89463 FEP* 200°C, Plenum
	DH-485		3074F 600V Tray Cable 3106A 1.5 Pair, RS-485 (PLTC) 9842 2 Pair, RS-485, NH, LS 9842LS Steel Wire Armor (9842) 9842NH Low-Smoke, Halogen-Free (9842) YM39500 Flexible Version (3106A)
	Longline Communications		8723 Interface Cable 88723 Plenum Version
Cutler-Hammer/ Westinghouse	IMPACC System		YR29090 Proprietary Trunk Cable
	I/Q System		9463 Blue Hose® (Standard) 9463LS Steel Wire Armor (9463) 9463NH Low-Smoke, Halogen-Free (9463)
Emerson Process Management (Fisher/Rose-mount Controls)	Fieldbus (Type SP50 ISA/IEC)		See Protocol Listings on page 18.5
	Hart		See Protocol Listings on page 18.5
	Provox Plus		3094A RG-11 Quad Shield PVC 3131A RG-6 Quad Shield PVC
GE Fanuc	Genius I/O System		YR29841 PLTC Version 9182 Communications Bus 89182 Plenum Version
Honeywell	Access 4000 System		9248 RG-6 PVC
	Fieldbus (Type SP50 ISA/IEC)		See Protocol Listings on page 18.5
	IPC 620 System	I/O	9271 Twinax, 25 AWG, 124 Ohm
		Serial Interface	9729 Up to 1220 m (4000 ft.) 9182 Up to 3049 m (10000 ft.) 89182 Plenum
	3000 UCN & LCN		3131A RG-6 Quad Shield PVC 9094A RG-11 Quad Shield PVC
Honeywell Micro-switch Division	Smart Distributed System		3086A Mini 3087A Micro
Invensys/Foxboro	Fieldbus (Type SP50 ISA/IEC)		See Protocol Listings on page 18.5
	I/A Series	Carrier Band	8233 Small Trunk 3095A Plenum 9290 Drop Cable
	I/A Series	Fieldbus	9207 Twinax 9207NH Low-Smoke, Halogen-Free (9207) 89207 200°C, Plenum 3073F 600V Tray Cable
		Node Bus	9880 Trunk Cable 89880 Plenum Version
Limitorque	DCC 100		3105A Actuator Bus Cable, 1 Pair, RS-485
Matsushita	FP Series	C-NET	9207 Twinax, 20 AWG, Stranded, 100 Ohm 9207NH Low-Smoke, Halogen-Free (9207) 9860 Twinax, 16 AWG, Solid, 124 Ohm 9860LS Steel Wire Armor (9860) 9860NH Low-Smoke, Halogen-Free (9860)
		MEWNET-F	9207 Twinax, 20 AWG, Stranded, 100 Ohm 9207NH Low-Smoke, Halogen-Free (9207) 9860 Twinax, 16 AWG, Solid, 124 Ohm 9860LS Steel Wire Armor (9860) 9860NH Low-Smoke, Halogen-Free (9860)
		MEWNET-H	9248 RG-6, 75 Ohm, 18 AWG
		MEWNET-TR	9207 Twinax, 20 AWG, Stranded, 100 Ohm 9207NH Low-Smoke, Halogen-Free (9207) 9860 Twinax, 16 AWG, Solid, 124 Ohm 9860LS Steel Wire Armor (9860) 9860NH Low-Smoke, Halogen-Free (9860)
		MEWNET-W	9207 Twinax, 20 AWG, Stranded, 100 Ohm 9207NH Low-Smoke, Halogen-Free (9207) 9806 4 Pair, RS-232, RS-422
		MEWNET-W2	9207 Twinax, 20 AWG, Stranded, 100 Ohm 9207NH Low-Smoke, Halogen-Free (9207) 9860 Twinax, 16 AWG, Solid, 124 Ohm 9860LS Steel Wire Armor (9860) 9860NH Low-Smoke, Halogen-Free (9860)
		TRNET	9207 Twinax, 20 AWG, Stranded, 100 Ohm 9207NH Low-Smoke, Halogen-Free (9207) 9860 Twinax, 16 AWG, Solid, 124 Ohm 9860LS Steel Wire Armor (9860) 9860NH Low-Smoke, Halogen-Free (9860)
Mitsubishi	DeviceNet™		See Protocol Listings on page 18.5
	CC-Link		1348A Three-Conductor 1349A Three-Conductor + Power
	Melsecnet (II) 10/10H		1505A Precision RG-59/U Coax 1505F High Flex (1505A) 1506A Plenum Precision Rg-59/U, Outdoor, Direct Burial 8241 Standard RG-59/U Coax 8241F High Flex (8241F)
	Profibus DP & FMS		See Protocol Listings on page 18.5
	Serial Communications		8777 Control and Instrumentation Interconnect Cable 8777LS Steel Wire Armor (8777) 8777NH Low-Smoke, Halogen-Free (8777)

* Fluorinated Ethylene-Propylene

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DeviceNet™ is an Open DeviceNet Vendor Association Inc. trademark.
Seriplex® is a Square D/Schneider AEG registered trademark.

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PLC/DCS Cable Cross Reference Guide
(continued)

INDUSTRIALTUFF™

PLC/DCS Manufacturer	System Name	Belden Part No.
Modicon/ Schneider AEG	Modbus	8777 Modem Drop Cable, 22 AWG, 3 Pair 8777LS Steel Wire Armor (8777) 8777NH Low-Smoke, Halogen-Free (8777) 128777 Aluminum Armor (8777) 138777 Steel Armor (8777) 88777 FEP* 200°C, Plenum
	Modbus II	3092A RG-6 Quad Shield PVC 3132A RG-6 Quad Shield, 150°C, Plenum 3092F RG-6 Quad Shield PVC, Flexible Version 123092A Aluminum Armor (3092A) 133092A Steel Armor (3092A)
	Modbus Plus	YM29560 24 AWG, 1 Pair, RS-485 YC39000 Aluminum Armor (YM29560) YC39222 Steel Armor (YM29560) YQ29258 24 AWG, 1 Pair, 150°C, Plenum
	Remote I/O	3092A RG-6 Quad Shield PVC 3092F RG-6 Quad Shield PVC, Flexible Version 123092A Aluminum Armor (3092A) 133092A Steel Armor (3092A) 123092F Aluminum Armor, RG-6 Quad Shield PVC 3132A RG-6 Quad Shield, 150°C, Plenum 3094A RG-11 Quad Shield PVC 123094A Aluminum Armor (3094A) 133094A Steel Armor (3094A) 3095A RG-11 Quad Shield, 150°C, Plenum
Omron	AS Interface	See Protocol Listings on page 18.5
	CompoBus/D (DeviceNet™)	See DeviceNet™ Protocol listings on page 18.5
	CompoBus/S	9409 1 Pair, 18 AWG, 300V PLTC Control 9318 1 Pair, 18 AWG, 300V PLTC Control, Shielded 3073F 600V Twinax Tray Cable 3076ENH Fieldbus, Low-Smoke, Halogen-Free 89740 1 Pair, 18 AWG, 300V Control
	Controller Link	9207 Twinax 9207NH Low-Smoke, Halogen-Free (9207) 89207 Twinax, 200°C, Plenum 9815 100 Ohm Twinax, Direct Burial 3073F 600V Twinax Tray Cable
	SYSBUS-2	3073F 600V Tray Cable Twinax
	SYSMAC BUS	9841 24 AWG, 1 Pair, RS-485 9841LS Steel Wire Armor (9841) 9841NH Low-Smoke, Halogen-Free (9841) 3105A 22 AWG, 1 Pair, RS-485
	SYSMAC LINK	9231 Coax
Phoenix Contact	DeviceNet™	See Protocol Listings on page 18.5
	InterBus®-S	See Protocol Listings on page 18.5
	Profibus DP FMS & PA	See Protocol Listings on page 18.5
Reliance/A-B	Auto Max Distributed Power	MTB6002 2 Fiber Breakout I100255 2 Fiber Loose Tube PVC I100266 2 Fiber Loose Tube CPE
	R-Net	9259 RG-59 PVC 89259 RG-59, 200°C, Plenum
Rotork	Pakscan II E RS-485	3105A 22 AWG, 1 Pair, RS-485
Siemens/Moore	FMC (Field Mountable Controller)	3105A 1 Pair, RS-485 3106A 1.5 Pair, RS-485 3107A 2 Pair, RS-485 3108A 3 Pair, RS-485 3109A 4 Pair, RS-485
	Hiway	9860 Network Trunk Cable 9860LS Steel Wire Armor (9860) 9860NH Low-Smoke, Halogen-Free (9860)

* Fluorinated Ethylene-Propylene

PLC/DCS Manufacturer	System Name		Belden Part No.
Siemens/Moore *(continued)*	MODULNET		3094A RG-11 Quad Shield PVC 3131A RG-6 Quad Shield PVC
	Profibus DP & FMS (Purple)		See Protocol Listings on page 18.5
	Profibus PA (Blue)		See Protocol Listings on page 18.5
	SINEC Series	H1	9907 Thin Network Trunk Cable 9880 Network Trunk Cable
		H2B	3131A RG-6 Quad Shield 3094A RG-11 Quad Shield
	SINEC Series	L1	31071A 2 Pair, RS-485
		L2	3079A 300V Twinax 3079ALS Steel Wire Armor (3079A) 3079ANH Low-Smoke, Halogen-Free (3079A) 3079E Stranded Conductor (3079A)
	Thicknet Ethernet Trunk		9880 Network Trunk Cable 129880 Aluminum Interlocked Armor Trunk 139880 Steel Interlocked Armor Trunk See Protocol listings on page 18.5
	Thinnet Ethernet Trunk		9907 Thin Network Trunk Cable See Protocol listings on page 18.5
Smar	Fieldbus (Type SP50 ISA/IEC)		See Protocol Listings on page 18.5
	Profibus DP, FMS & PA		See Protocol Listings on page 18.5
	RS-485		See Protocol Listings on page 18.5
Square D/ Schneider AEG	FIP/Fieldbus		3079A 22 AWG, 1 Pair, Shielded 3079ALS Steel Wire Armor (3079A) 3079ANH Low-Smoke, Halogen-Free (3079A) 3079E Stranded Conductor (3079A) 123079A Aluminum Armor (3079A)
	Model 50, RS-422 Cable		8760 18 AWG, 1 Pair, Shielded 128760 Aluminum Armor (8760)
	Passport I/O – I/O Net		3105A 22 AWG, 1 Pair, RS-485 123105A Aluminum Armor (3105A) 3106A 22 AWG, 1.5 Pair, RS-485 123106A Aluminum Armor (3106A)
	Power Logic		9841 24 AWG, 1 Pair, RS-485 9841LS Steel Wire Armor (9841) 9841NH Low-Smoke, Halogen-Free (9841) 9842 24 AWG, 2 Pair, RS-485 9842LS Steel Wire Armor (9842) 9842NH Low-Smoke, Halogen-Free (9842)
	Seriplex®		3124A CBL-1822-P20 3125A CBL-1622-P16 3126A CBL-162212-P16 123124A Aluminum Armor (3124A) 123125A Aluminum Armor (3125A) 123126A Aluminum Armor (3126A)
	SY/Net Network Trunk Cable		9463 Blue Hose® (Standard) 9463F Flexible Version (9463) 129463 Aluminum Armor (9463) 139463 Steel Armor (9463) 189463 Cast Aluminum (9463) YR28826 Dual Version (9463) 9463DB Direct Burial (9463) YR29565 Various Color Jackets (9463) 3072F 600V TC Rated (9463) YR41194 Low-Smoke, Halogen-Free YR28764 Super Thick (PLTC) 89463 FEP* 200°C, Plenum
	SY/Net TNIM Cable		9272 20 AWG, 1 Pair, Shielded 89272 FEP* 200°C, Plenum
Yokogawa	Fieldbus (Type SP50 ISA/IEC)		See Protocol Listings on page 18.5
Westinghouse	WDPF		9292 RG-11 PVC

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DeviceNet™ is an Open DeviceNet Vendor Association Inc. trademark.
InterBus® is a Phoenix Contact trademark.
Seriplex® is a Square D/Schneider AEG registered trademark.

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Industrial Communications Protocol

Cross Reference

INDUSTRIALTUFF™

System Name	Belden Part No.	
AS Interface	3999E	Yellow Bus Cable
ControlNet™	3092A	RG-6 PVC Quad Shield
	3092F	RG-6 PVC Quad Shield, Flex Version, Aluminum Braid
	YR28890	RG-6 PVC Flex Version, Copper Braid
	3093A	RG-6 FEP* Quad Shield, Plenum
DeviceNet™	3082A	PVC (Thick)
	3082F	High-Flex (Thick)
	3082K	CL2 (Flat)
	3082KP	Auxiliary Power (Flat)
	3083A	CPE (Thick)
	3084A	PVC (Thin)
	3084F	High-Flex (Thin)
	3085A	CPE (Thin)
	7895A	CL2 PVC (Cable III Mid)
	7896A	CL1 PVC (Type V Trunk Cable)
	7897A	CL1 PVC (Thick)
	7900A	CL1 Unshielded (Drop Cable IV)
Ethernet – Fiber Optic	See Industrial Ethernet Fiber Optic Cable Selection Guide on page 18.36	
Ethernet – Thicknet	9880	10 Base 5 Network Trunk Cable
	89880	Plenum (9880)
Ethernet – Thinnet	9907	10 Base 2 Network Trunk Cable
	89907	Plenum (9907)
Ethernet – Twisted Pair	See DataTuff® Industrial Ethernet Cable Selection Guide on page 18.36	
Fieldbus (Type SP50 ISA/IEC)	3076F	Type A, H1 1900 m (31.25K)
	3076ELS	Steel Wire Armor (3076F)
	3076ENH	Low-Smoke, Halogen-Free (3076F)
	3077F	Type B, H1 1200 m (31.25K)
	3077ELS	Steel Wire Armor (3077F)
	3077ENH	Low-Smoke, Halogen-Free (3077F)
	3078F	High-Speed (1.0 + 2.5 mbits/s)
	HSE	Copper & Fiber *(See Cables for Industrial Ethernet)*
Hart	3105A	1 Pair, RS-485
	3106A	1.5 Pair, RS-485
	3107A	2 Pair, RS-485
InterBus®-S	3119A	18/3C, 24/3 Pair, Composite
	3120A	24/3 Pair
Profibus DP & FMS (Purple)	3079A	300V Twinax
	3079ALS	Steel Wire Armor (3079A)
	3079ANH	Low-Smoke, Halogen-Free (3079A)
	3079E	Stranded Conductor (3079A)
Profibus PA (Blue)	3076F	18 AWG, 2 Conductors, Type A
	3076ELS	Steel Wire Armor (3076F)
	3076ENH	Low-Smoke, Halogen-Free (3076F)
RS-485/HART/CAN	9841	1 Pair
	9841LS	Steel Wire Armor (9841)
	9841NH	Low-Smoke, Halogen-Free (9841)
	9842	2 Pair
	9842LS	Steel Wire Armor (9842)
	9842NH	Low-Smoke, Halogen-Free (9842)
	9843	3 Pair
	9843NH	Low-Smoke, Halogen-Free (9843)
	9844	4 Pair
	3105A	1 Pair (PLTC)
	3106A	1.5 Pair (PLTC)
	3107A	2 Pair (PLTC)
	3108A	3 Pair (PLTC)
	3109A	4 Pair (PLTC)

* Fluorinated Ethylene-Propylene
ControlNet™ is a ControlNet International trademark.
DeviceNet™ is an Open DeviceNet Vendor Association Inc. trademark.
InterBus® is a Phoenix Contact trademark.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Industrial Data Solutions® – Industrial Ethernet

INDUSTRIALTUFF™

DataTuff® Industrial Ethernet Cable Selection Guide (See Pages 18.7 – 18.11 for Product Detail.)

Part No.	Pulling Tension	Shielding		Conductor		Installation	Environmental Issues		Industrial Grade Jacket						
		Un-shielded	Shielded*	Solid	Stranded** Flexibility	Installation Stress Re-sistance†	Oil Resis-tance	UV Sun-light Re-sistance	Gasoline Resis-tance	HI/LO Temp	Heavy	Upjacket	Armored	PVC	LSHN/ FRNC
Category 5e															
BEB1212	–	●		●		●	●	●			●				●
BEB3212	–		●	●		●	●	●			●				●
7923A	40	●		●		●	●	●			●			●	
7929A	35		●	●		●	●	●			●			●	
7921A	75		●	●		●	●	●			●			●	
11700A	40	●		●		●	●	●				●		●	
121700A	40	●		●		●	●	●					●	●	
7924A	40	●			●	●	●	●			●			●	
7928A	40	●		●		●	●	●	●	●	●			●	
7918A	35	●		●			●	●			●			●	
7919A	25		●	●			●	●			●			●	
Category 6															
7927A	45	●		●		●	●	●			●			●	
7931A	40	●		●		●	●	●	●	●	●			●	
11872A	45	●		●		●						●		●	
121872A	45	●		●		●		●					●	●	

* Shielded products are recommended for high-noise environments.
**Stranded products are recommended where more flexibility is needed.
† Products with bonded-pair technology provide Installable Performance™ advantages.

Cable that Meets the Requirements of EN50170-2-2:1996 for Communications up to 12 Mbaud

Baud Rate (k baud)	9.6	19.2	93.75	187.5	500.0	1500.0	12000.0
Maximum Trunk Length (m)	1200	1200	1200	1000	400	200	100

DeviceNet™ Communications Rate Table

Communi-cations Rate	Maximum Distance																			
	3082A		3082F		3082K		3083A		3084F		3084A/3085A		7895A		7896A		7897A		7900A	
	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m
125 Kbps	1640	500	1640	500	1378	420	1640	500	328	100	328	100	984	300	1378	400	1640	500	328	100
250 Kbps	820	250	820	250	656	200	820	250	328	100	328	100	820	250	656	200	820	250	328	100
500 Kbps	328	100	328	100	328	100	328	100	328	100	328	100	328	100	328	100	328	100	328	100

DeviceNet™ is an Open DeviceNet Vendor Association Inc. trademark.

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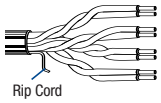
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables
Heavy Duty Sunlight- and Oil-Resistant Jackets

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord																			
Polyethylene Insulation • Industrial Grade Sunlight- and Oil-Resistant FRNC/LSNH Jacket (Black and Grey)																			
	BEB1212	IEC 60332-1	1000 1640	305 500	20.1 33.1	9.1 15.0	0.51 mm 24 AWG Solid BC	0.037	0.95	Bonded-Pair Unshielded	0.217	5.50	1 4 10 16 25 62.5 100	2.0 4.1 6.3 8.0 10.1 16.5 21.3	62.3 53.3 47.3 44.3 41.3 35.4 32.3	60.3 49.2 41.0 36.2 31.2 18.9 11.0	60.8 48.7 40.8 36.7 32.8 24.8 20.8	100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15	20.0 23.0 25.0 25.0 25.0 21.5 20.1



Rip Cord

4-Pair
EtherNet/IP Compliant

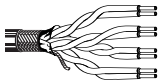
Color Code: see chart below
Burning Energy: 400 kJ/m
RJ-45 Compatible, -25°C Cold Bend

Verified to ISO/IEC 11801 (2nd Edition), EN-50173-1, TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 1 m intervals.

Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall **Beldfoil®** Shield + 40% TC **Braid** • 26 AWG TC Drain Wire

Polyethylene Insulation • Industrial Grade Sunlight- and Oil-Resistant FRNC/LSNH Jacket (Black, Grey and Blue)

Heavy Shielded	**BEB3212**	IEC 60332-1	1000 1640	305 500	30.9 50.7	14.0 23.0	0.51 mm 24 AWG Solid BC	0.041	1.05	Bonded-Pair Overall Beldfoil® + Overall 40% TC Braid + Drain Wire (26 AWG TC)	0.262	6.65								see above



4-Pair
EtherNet/IP Compliant

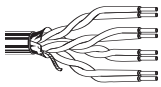
Color Code: see chart below
Burning Energy: 575 kJ/m
RJ-45 Compatible, -25°C Cold Bend

Verified to ISO/IEC 11801 (2nd Edition), EN-50173-1, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 1 m intervals.

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket (Black and Blue)

Shielded	**7929A**	NEC: CMR CMX-Outdoor CEC: CMR FT4	1000 2000	305 610	37.0 72.1	16.8 32.7	0.51 mm 24 AWG Solid BC	0.045	1.14	Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC)	0.265	6.73	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.4	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40.8 36.1 28.2 18.4 10.3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0



4-Pair

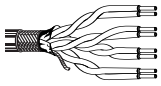
Color Code: see chart below
RJ-45 Compatible, -25°C Cold Bend
610 m put-up available in Black only.

Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals.

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm BC • Overall **Beldfoil®** Shield + 70% TC **Braid** • 24 AWG Spiral Drain Wire

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket (Black, Red, Blue and Teal)

Heavy Shielded	**7921A**	NEC: CMR CMX-Outdoor CEC: CMR FT4	1000 2000	305 610	54.9 106.0	24.9 48.1	0.51 mm 24 AWG Solid BC	0.047	1.19	Bonded-Pair Overall Beldfoil® + Overall 70% TC Braid + Drain Wire (24 AWG TC)	0.330	8.38	1 4 10 16 31.25 62.5 100	2.0 4.1 6.5 8.2 11.7 17.0 22.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3	60.3 49.2 40.8 36.1 28.2 18.4 10.3	60.8 48.7 40.8 36.7 30.9 24.8 20.8	100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15	20.0 23.6 26.0 26.0 25.0 23.5 22.5



4-Pair

Color Code: see chart below
-25°C Cold Bend
610 m put-up available in Black only.

Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 0.6 m intervals.

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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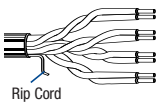
Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables

Heavy Duty Sunlight- and Oil-Resistant Jackets

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Enhanced Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Rip Cord																			
Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black and Blue)																			
	7918A	NEC:	1000	305	28.0	12.7	0.51 mm	0.037	0.94	Non-	0.230	5.84	1	2.0	62.3	60.3	60.8	100 ± 15	20.0
		CMR	2000	610	52.0	23.6	24 AWG			Bonded-Pair			4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CMX-Outdoor					Solid BC			Unshielded			10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CEC:											16	8.2	44.3	36.1	36.7	100 ± 15	25.0
		CMR FT4											31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	18.4	24.8	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1
													200	32.4	27.8	1.0	14.7	100 ± 25	15.0



Rip Cord

4-Pair

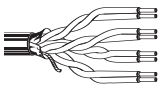
Cable passes -40°C Cold Bend per UL1581
Installation Temperature: -25°C to +75°C
Operating Temperature: -40°C to +75°C*
610 m put-up available in Black only.

RJ-45 Compatible
Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 0.6 m intervals.
Color Code: see chart below

Enhanced Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket

Shielded	**7919A**	NEC:	1000	305	35.1	15.9	0.51 mm	0.042	1.07	Non-	0.265	6.73	1	2.0	62.3	60.3	60.8	100 ± 15	20.0
		CMR	2000	610	68.1	30.9	24 AWG			Bonded-Pair			4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CMX-Outdoor					Solid BC			Overall Beldfoil®			10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CEC:								+ Drain Wire			16	8.2	44.3	36.1	36.7	100 ± 15	25.0
		CMR FT4								(24 AWG TC)			31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	18.4	24.8	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1



4-Pair

Cable passes -40°C Cold Bend per UL1581
Installation Temperature: -25°C to +75°C
Operating Temperature: -40°C to +75°C*
610 m put-up available in Black only.

RJ-45 Compatible
Third party verified to TIA/EIA-568-B.2, Category 5e • P-07-KA060004-MSHA**
Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals.
Color Code: see chart below

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black, Red and Teal)

Shielded	**7933A**	NEC:	1000	305	32.0	14.5	0.51 mm	0.038	0.97	Bonded-Pair	0.227	5.77	1	2.0	62.3	60.3	60.8	100 ± 15	20.0
		CMR FT4	2000	610	64.8	29.4	24 AWG			Overall Beldfoil®			4	4.1	53.3	49.2	48.7	100 ± 15	23.6
		CEC:					Solid BC			+ Drain Wire			10	6.5	47.3	40.8	40.8	100 ± 15	26.0
		CMR FT4								(24 AWG TC)			16	8.2	44.3	36.1	36.7	100 ± 15	26.0
													31.25	11.7	39.9	28.2	30.9	100 ± 15	25.0
													62.5	17.0	35.4	18.4	24.8	100 ± 15	23.5
													100	22.0	32.3	10.3	20.8	100 ± 15	22.5
													200	32.4	27.8	1.0	14.7	100 ± 25	15.0



2-Pair

EtherNet/IP Compliant

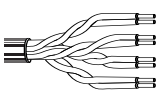
Cable passes -40°C Cold Bend per UL1581
Installation Temperature: -25°C to +75°C
Operating Temperature: -40°C to +75°C*
610 m put-up available in Black only.

M-12 or RJ-45 Compatible
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals.
Color Code: see chart below

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper

Plenum • FEP Insulation • Sunlight-, Oil-and Gas-Resistant Black FEP Jacket

Compliant	**7928A**	NEC:	1000	305	24.0	10.9	0.51 mm	0.036	0.91	Bonded-Pair	0.187	4.57	1	2.0	65.3	63.3	60.8	100 ± 12	20.0
High & Low Temp		Limited					24 AWG			Unshielded			4	4.0	56.3	52.3	48.7	100 ± 12	23.6
Oil Res I & II		Combustible					Solid BC						10	6.4	50.3	43.9	40.8	100 ± 12	26.0
Gas Res		FHC 25/50											16	8.1	47.3	39.1	36.7	100 ± 12	26.0
		CMP											31.25	11.6	42.9	31.3	30.9	100 ± 15	25.0
		CEC:											62.5	16.8	38.4	21.6	24.8	100 ± 15	23.5
		CMP FT6											100	21.7	35.3	17.1	20.8	100 ± 15	22.5
													350	44.3	27.2	–	9.9	100 ± 22	17.0



4-Pair

EtherNet/IP Compliant

Cable passes -70°C Cold Bend per UL1581
Installation Temperature: -55°C to +150°C
Operating Temperature: -70°C to +150°C*

RJ-45 Compatible • Jacket sequentially marked at 0.6 m intervals.
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
Color Code: see chart below

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance • * Subject to length de-rating. • ** Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange

Pair No.	Color
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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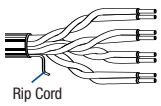
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Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables
Heavy Duty Sunlight- and Oil-Resistant Jackets

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Twisted Pairs • Rip Cord																			
Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black, Red or Teal)																			
	7923A	NEC:	1000	305	28.0	12.7	0.51 mm	0.038	0.97	Bonded-Pair	0.230	5.84	1	2.0	65.3	68.3	60.8	100 ± 12	20.0
		CMR	2000	610	54.0	24.5	24 AWG			Unshielded			4	4.0	56.3	52.3	48.7	100 ± 12	23.6
		CMX-Outdoor					Solid BC						8	5.7	51.8	46.1	42.7	100 ± 12	25.4
		CEC:											10	6.4	50.3	43.9	40.8	100 ± 12	26.0
		CMR FT4											16	8.1	47.3	39.1	36.7	100 ± 12	26.0
													25	10.3	44.3	34.1	32.	100 ± 15	25.5
													31.25	11.6	42.9	31.3	30.9	100 ± 15	25.0
													62.5	16.8	38.4	21.6	24.8	100 ± 15	23.5
													100	21.7	35.3	17.1	20.8	100 ± 15	22.5
													155	27.7	32.5	4.7	16.9	100 ± 18	19.0
													200	32.0	30.8	3.0	14.7	100 ± 20	19.0
													250	36.4	29.3	–	12.8	100 ± 20	18.0
													350	44.3	27.2	–	9.9	100 ± 22	17.0



Rip Cord

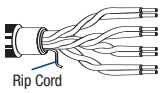
4-Pair

Cable passes -40°C Cold Bend per UL1581
Installation Temperature: -25°C to +75°C
Operating Temperature: -40°C to +75°C*
610 m put-up available in Black only.

RJ-45 Compatible
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
P-07-KA060003-MSHA**
Jacket sequentially marked at 0.6 m intervals.

EtherNet/IP Compliant

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord																			
Polyolefin Insulation • PVC Inner Jacket • Industrial Grade PVC Outer Jacket (Black, Grey, Red, Teal or Blue)																			
Upjacketed	**11700A**	NEC:	1000	305	39.0	17.7	0.51 mm	0.038	0.97	Bonded-Pair	0.285	7.24							see above
		CMR	3000	914	117.3	53.2	24 AWG			Unshielded									
		CMX-Outdoor					Solid BC				Upjacketed O.D.								
		CEC:									0.200	5.08							
		CMR FT4																	



Rip Cord

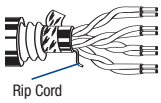
4-Pair

Cable passes -40°C Cold Bend per UL1581
Installation Temperature: -25°C to +75°C
Operating Temperature: -40°C to +75°C*
914 m put-up available in Black only.

RJ-45 Compatible
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
P-07-KA060005-MSHA**
Outer jacket is sunlight- and oil-resistant. Jacket sequentially marked at 0.6 m intervals.

EtherNet/IP Compliant

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Polyester Wrap • Rip Cord																			
Polyolefin Insulation • PVC Inner Jacket • Interlocked AL Armor • Industrial Grade PVC Outer Jacket (Black or Grey)																			
Interlocked AL Armor	**121700A**	NEC:	1000	305	158.7	72.0	0.51 mm	0.038	0.97	Bonded-Pair	0.530	13.46							see above
		CM	3000	914	464.3	210.6	24 AWG			Unshielded									
		CEC:					Solid BC				Upjacketed O.D.								
		HL									0.200	5.08							
		CMG FT4																	



Rip Cord

4-Pair CMG

Cable passes -40°C Cold Bend per UL1581
Installation Temperature: -25°C to +75°C
Operating Temperature: -40°C to +75°C*
914 m put-up available in Black only.

RJ-45 Compatible
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
Verified to TIA/EIA-568-B.2, Category 5e
Outer jacket is sunlight- and oil-resistant. Jacket sequentially marked at 1 m intervals.

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

* Subject to length de-rating. • ** Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables

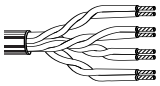
Heavy Duty Sunlight- and Oil-Resistant Jackets

INDUSTRIALTUFF™

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Tinned Copper

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black, Red or Teal)

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Stranded Flexible	7924A	NEC: CMR CMX-Outdoor CEC: CMR FT4	1000 2000	305 610	30.0 58.0	13.6 26.3	0.61 mm 24 AWG (7x32) TC	0.039	0.99	Bonded-Pair Unshielded	0.242	6.15	1	2.4	65.3	62.9	60.8	100 ± 12	20.0
													4	4.8	56.3	51.5	48.7	100 ± 12	23.6
													8	6.8	51.8	45.0	42.7	100 ± 12	25.4
													10	7.7	50.3	42.6	40.8	100 ± 12	26.0
													16	9.7	47.3	37.5	36.7	100 ± 12	26.0
													25	12.4	44.3	31.9	32.8	100 ± 15	25.5
													31.25	13.9	42.9	29.0	30.9	100 ± 15	25.0
													62.5	20.2	38.4	18.3	24.8	100 ± 15	23.5
													100	26.0	35.3	9.2	20.8	100 ± 15	22.5
													155	33.2	32.5	–	16.9	100 ± 18	19.0
													200	38.4	30.8	–	14.7	100 ± 20	19.0
													250	43.7	29.3	–	12.8	100 ± 20	18.0
													350	53.2	27.2	–	9.9	100 ± 22	17.0



4-Pair

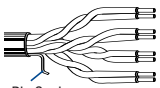
Cable passes -40°C Cold Bend per UL1581
Installation Temperature: -25°C to +75°C
Operating Temperature: -40°C to +75°C*
610 m put-up available in Black only.

RJ-45 Compatible
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151; 5,734,126 and 5,763,823
Jacket sequentially marked at 0.6 m intervals.
Color Code: see chart below

Enhanced Cat 5e • 22 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Rip Cord

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
PLTC	7922A	NEC: PLTC CMR CMX-Outdoor CEC: CMR FT4	1000 2000	305 610	46.3 92.6	21.0 42.0	0.64 mm 22 AWG Solid BC	0.048	1.22	Bonded-Pair Unshielded	0.301	7.65	1	2.0	65.3	63.3	60.8	100 ± 12	20.0
													4	4.0	56.3	52.3	48.7	100 ± 12	23.0
													8	5.7	51.8	46.1	42.7	100 ± 12	24.5
													10	6.4	50.3	43.9	40.8	100 ± 12	25.0
													16	8.1	47.3	39.1	36.7	100 ± 12	25.0
													25	10.3	44.3	34.1	32.8	100 ± 15	24.3
													31.25	11.6	42.9	31.3	30.9	100 ± 15	23.6
													62.5	16.8	38.4	21.6	24.8	100 ± 15	21.5
													100	21.7	35.3	17.1	20.8	100 ± 15	20.1
													155	27.7	32.5	4.7	16.9	100 ± 18	19.0
													200	32.0	30.8	3.0	14.7	100 ± 20	19.0
													250	36.4	29.3	–	12.8	100 ± 20	18.0
													350	44.3	27.2	–	9.9	100 ± 22	17.0



Rip Cord

4-Pair

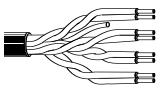
Cable passes -25°C Cold Bend per UL1581
Installation Temperature: -10°C to +75°C
Operating Temperature: -25°C to +75°C*

Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 0.6 m intervals.
Color Code: see chart below

Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper

Plenum • FEP Insulation • Sunlight-, Oil- and Gas-Resistant Black FEP Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
High & Low Temp Oil Res I & II Gas Res	7931A	NEC: Limited Combustible FHC 25/50 CMP CEC: CMP FT6	1000	305	35.1	15.9	0.57 mm 23 AWG Solid BC	0.038	0.97	Bonded-Pair Unshielded	0.214	5.44	1	2.0	72.3	70.3	64.8	100 ± 15	20.0
													10	6.0	57.3	51.3	44.8	100 ± 15	25.0
													20	8.5	52.8	44.3	38.7	100 ± 15	25.0
													31.25	10.7	49.9	39.2	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
													100	19.8	42.3	22.5	24.8	100 ± 15	20.1
													200	29.0	37.8	8.8	18.7	100 ± 22	18.0
													250	32.8	36.3	3.5	16.8	100 ± 32	17.3



4-Pair

Cable passes -70°C Cold Bend per UL1581
Installation Temperature: -55°C to +150°C
Operating Temperature: -70°C to +150°C*

RJ-45 Compatible
Third party verified to TIA/EIA-568-B.2-1, Category 6 • U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 0.6 m intervals.
Color Code: see chart below

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Subject to length de-rating.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

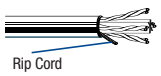
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables
Heavy Duty Sunlight- and Oil-Resistant Jackets

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Enhanced Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • **Patented E-Spline Center Member** • Rip Cord																			
Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket																			
 Rip Cord 4-Pair	**7927A**	NEC: CMR CEC: CMR FT4	1000	305	44.1	20.0	0.57 mm 23 AWG Solid BC	0.042	1.07	Bonded-Pair Unshielded	0.251	6.38	1	1.9	80.3	78.5	70.8	100 ± 12	20.0
			2000	610	88.0	39.9					x	x	10	5.7	65.3	59.6	50.8	100 ± 12	25.0
											0.339	8.61	31.25	10.2	57.9	47.7	40.9	100 ± 15	25.0
													62.5	14.7	53.4	38.7	34.9	100 ± 15	25.0
													100	18.9	50.3	31.4	30.8	100 ± 15	25.0
													155	23.9	47.5	23.5	27.0	100 ± 15	22.8
													200	27.5	45.8	18.3	24.8	100 ± 15	21.7
													250	31.2	44.3	13.2	22.8	100 ± 20	20.5
													350	37.7	40.2	4.5	19.9	100 ± 22	19.8
													400	40.6	39.3	0.6	18.8	100 ± 22	19.5
													500	46.2	37.8	> 0*	16.8	100 ± 22	18.4
													550	48.8	37.2	–	16.0	100 ± 22	18.0
													600	51.4	36.6	–	15.2	100 ± 22	17.6

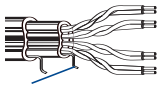
Cable passes -40°C Cold Bend per UL1581
Installation Temperature: -25°C to +75°C
Operating Temperature: -40°C to +75°C*

RJ-45 Compatible
Third party verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1
Jacket sequentially marked at 0.6 m intervals.

* PSUM ACR
> 0 is guaranteed to 460 MHz

Enhanced Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Rip Cord

Polyolefin Insulation • PVC Inner Jacket • Industrial Grade PVC Outer Jacket (Black and Grey)

Upjacketed  Rip Cord 4-Pair Mediatwist™ Construction	**11872A**	NEC: CM CEC: CM FT1	1000	305	66.1	30.0	0.57 mm 23 AWG Solid BC	0.041	1.04	Bonded-Pair Unshielded	0.475	12.07	1	1.9	72.3	70.0	64.8	100 ± 12	20.0
											x	x	4	3.7	63.3	59.0	52.7	100 ± 12	23.0
											0.265	6.73	10	5.9	57.3	51.0	44.8	100 ± 12	25.0
													16	7.5	54.3	46.0	40.7	100 ± 12	25.0
													Upjacketed O.D.						
											0.365	9.27	31.25	10.6	49.9	39.0	34.9	100 ± 15	25.0
											x	x	62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
											0.165	4.19	100	19.8	42.3	25.0	24.8	100 ± 15	21.0
													155	25.1	39.5	14.0	20.9	100 ± 15	21.0
													200	29.0	37.9	10.0	18.7	100 ± 15	21.0
													310	37.1	34.9	–	14.9	100 ± 20	18.0
													350	39.8	34.2	–	13.9	100 ± 22	17.0
													400*	43.0	33.3	–	12.7	100 ± 32	14.0
													500*	49.0	31.8	–	10.8	100 ± 32	14.0

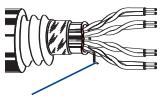
Cable passes -25°C Cold Bend per UL1581
Installation Temperature: -10°C to +75°C
Operating Temperature: -25°C to +75°C*

RJ-45 Compatible
Verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151, 5,734,126 and 5,821,467
Jacket sequentially marked at 0.6 m intervals.

* Value provided for information only.

Enhanced Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • **Polyester Wrap** • Rip Cord

Polyolefin Insulation • PVC Inner Jacket • Interlocked AL Armor • Industrial Grade PVC Outer Jacket (Black and Grey)

Interlocked AL Armor  Rip Cord 4-Pair Mediatwist™ Construction	**121872A**	NEC: CMG CEC: HL CMG FT4	1000	305	221.8	100.8	0.57 mm 23 AWG Solid BC	0.041	1.04	Bonded-Pair Unshielded	0.684	17.37							see above
											Upjacketed O.D.								
											0.365	9.27							
											x	x							
											0.165	4.19							

Cable passes -40°C Cold Bend per UL1581
Installation Temperature: -25°C to +75°C
Operating Temperature: -40°C to +75°C*

RJ-45 Compatible
Verified to TIA/EIA-568-B.2-1, Category 6
U.S. Patents 5,606,151, 5,734,126 and 5,821,467
Jacket sequentially marked at 1 m intervals.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Subject to length de-rating.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Industrial Data Solutions® – Industrial Ethernet Cables

Coaxial Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
Thinnet 10Base2 Ethernet • 20 AWG • Stranded (19x32) 0.9 mm Tinned Copper • **Duobond® II** • 93% Tinned Copper Braid																			
Ethernet • Foam HDPE Insulation • Grey PVC Jacket																			
30V 60°C UL AWM Style 1354	**9907**	NEC: CL2 CM CEC: CM	500 U-1000 1000 1640 3280	152 U-305 305 500 1000	12.6 25.1 25.1 41.0 82.2	5.7 11.4 11.4 18.6 37.3	0.94 mm 20 AWG (19x32) TC 47.9 Ω/km* 28.9 Ω/km**	0.102	2.59	Duobond® II + 93% TC Braid 19.0 Ω/km***	0.185	4.70	50	80%	25.4	83.3	1 10 50 100 200 400 700 900 1000	0.4 1.3 2.9 4.2 6.1 8.9 12.1 13.9 14.8	1.4 4.3 9.5 13.8 20.0 29.2 39.7 45.6 48.6
DEC Part No. 17-01248-00																			
Plenum • Ethernet • Foam FEP Insulation • Grey Fluorocopolymer Jacket																			
300V 150°C RG-58/U Type	**89907**	NEC: CL2P CMP CEC: CMP	† 500 † 1000 † 2500	152 305 762	12.6 24.0 60.2	5.7 10.9 27.3	0.94 mm 20 AWG (19x32) TC 47.9 Ω/km* 28.9 Ω/km**	0.095	2.41	Duobond® II + 93% TC Braid 19.0 Ω/km***	0.160	4.06	50	80%	25.4	83.3	1 10 50 100 200 400 700 900 1000	0.4 1.3 2.9 4.2 6.1 9.2 12.9 15.0 16.0	1.4 4.3 9.5 13.8 20.0 30.2 42.3 49.2 52.5
DEC Part No. 17-01248-00 Suitable for outdoor and direct burial applications.																			
Thicknet 10Base5 Ethernet • 12 AWG • Solid 2.1 mm Bare Copper • **Duobond® IV** Quad Shield																			
Ethernet • Foam PE Insulation • Yellow PVC Jacket																			
30V 60°C UL AWM Style 1478	**9880**	NEC: CL2 CM CEC: CM	500 1000 1640	152 305 500	66.1 131.2 220.2	30.0 59.5 99.9	2.05 mm 12 AWG Solid BC 9.7 Ω/km* 4.7 Ω/km**	0.243	6.17	Duobond® IV Quad Shield 5.0 Ω/km***	0.405	10.29	50	78%	25.9	85.3	1 5 10 50 100 200 400 700 900 1000	0.2 0.4 0.5 1.2 1.7 2.6 3.9 5.5 6.5 6.9	0.6 1.2 1.7 3.9 5.6 8.4 12.8 18.1 21.3 22.6
DEC Part No. 17-00451-00 Ring-band stripes marked every 2.5 m to aid users in tap placement.																			
Plenum • Foam FEP Insulation • Orange Fluorocopolymer Jacket																			
150°C	**89880**	NEC: CL2P CMP CEC: CMP FT6	1000 †† 1640	305 500	134.3 225.1	60.9 102.1	2.05 mm 12 AWG Solid BC 9.7 Ω/km* 4.7 Ω/km**	0.245	6.22	Duobond® IV Quad Shield 5.0 Ω/km***	0.375	9.53	50	78%	25.9	85.3			see above
DEC Part No. 17-00324-00 Ring-band stripes marked every 2.5 m to aid users in tap placement. Suitable for outdoor and direct burial applications.																			

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.
†† Final put-up length may vary from length shown ±10% for spools and reels, ±5% for UnReel® cartons.

Duobond® II and Duobond® IV see technical information page 23.13.

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Industrial Data Solutions® – Industrial Twinax

Blue Hose® Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 55% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire																			
Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket																			
300V 80°C UL AWM Style 2464	**9463**	NEC: CM CL2 CEC: CM	100 U-500 500 U-1000 1000 † 6000 † 10000	31 U-152 152 U-305 305 1829 3048	4.2 18.5 18.5 37.0 37.0 233.9 370.8	1.9 8.4 8.4 16.8 16.8 106.1 168.2	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	0.238	6.05	78	66%	19.7	64.6	1 10 50 100 200 400	0.6 2.1 5.0 7.5 11.0 16.0	2.0 6.9 16.4 24.6 36.1 52.5
Z-Fold®																			
Color Code: Clear, Blue 305 m, 1829 m and 3048 m put-ups also available in Brown, Orange or Violet.										Allen-Bradley P/N 1770-CD P-7K-SC-182141-MSHA* CPE jacket optional.									
Polyethylene Insulation • Blue FRNC/LSNH Jacket																			
300V 80°C	**9463NH**	IEC 332-3C BS 7655	1000 1640 3280	305 500 1000	37.5 64.6 117.5	17.0 29.3 53.3	0.96 mm 20 AWG (7x28) TC	0.077	1.96	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	0.250	6.35	78	66%	19.7	64.6	see above		
Z-Fold®																			
Color Code: Clear, Blue																			
Polyethylene Insulation • Blue FRNC/LSNH Inner Jacket • Steel Wire Armor • Blue FRNC/LSNH Outer Jacket																			
300V 80°C Steel Wire Armor	**9463LS**	IEC 332-3C BS 7655	1640 3280 4920	500 1000 1500	249.1 537.9 925.9	113.0 244.0 420.0	0.96 mm 20 AWG (7x28) TC	0.077	1.96	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	0.250 0.423	6.35 10.75	78	66%	19.7	64.6	see above		
Z-Fold®																			
Color Code: Clear, Blue																			
Polyethylene Insulation • Blue Sunlight-Resistant LDPE Jacket																			
300V 80°C Flooded Direct Burial	**9463DB**		1000 5000	305 1524	33.1 155.2	15.0 70.4	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	0.240	6.10	78	66%	19.7	64.6	see above		
Z-Fold®																			
Color Code: Clear, Blue										Allen-Bradley P/N 1770-CD									
20 AWG • Stranded (42x36) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 85% Tinned Copper Braid																			
Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket																			
300V 60°C UL AWM Style 2464	**9463F**	NEC: CM CL2 CEC: CM	1000 5000	305 1524	42.1 205.2	19.1 93.1	0.97 mm 20 AWG (42x36) TC	0.075	1.91	Overall Beldfoil® + Overall 85% TC Braid	0.243	6.17	78	66%	19.7	64.6	see above		
Z-Fold® High-Flex																			
Color Code: Clear, Blue										Allen-Bradley P/N 1770-CD P-7K-SC-182141-MSHA*									

TC = Tinned Copper • DCR = DC resistance
† Final put-up length may vary ±10% from length shown.
* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

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Industrial Data Solutions® – Industrial Twinax

Blue Hose® Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 76% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire																			
Plenum • FEP Insulation • Blue FEP Jacket																			
300V 200°C High Temperature	**89463**	NEC: CMP CL2P CEC: CMP FT6	1000 2500	305 762	34.0 90.2	15.4 40.9	0.96 mm 20 AWG (7x28) TC	0.073	1.85	Overall Beldfoil® + Overall 76% TC Braid + Drain Wire (20 AWG TC)	0.203	5.16	78	66%	19.7	64.6	1 10 50 100 200 400	0.6 2.1 5.0 7.5 11.0 16.0	2.0 6.9 16.4 24.6 36.1 52.5
 Z-Fold®																			
			Color Code: Clear, Blue							Allen-Bradley P/N 1770-CD									
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • 55% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire																			
Polyethylene Insulation • Blue PVC Inner Jacket • Aluminum Interlocked Armor • Blue Sunlight-Resistant PVC Outer Jacket																			
300V 60°C Aluminum Armored	**129463**	NEC: CM CL2 CEC: CM CMG FT4 HLBCD (Haz Loc)	1000 6000	305 1829	122.4 925.9	55.5 420.0	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	*0.238 **0.563	*6.05 **14.30	78	66%	19.7	64.6	see above		
																			
* Over Armor ** Under Armor			Color Code: Clear, Blue							Allen-Bradley P/N 1770-CD									
Polyethylene Insulation • Blue PVC Inner Jacket • Steel Armor • Blue Sunlight-Resistant PVC Outer Jacket																			
300V 60°C Steel Armored	**139463**	NEC: CM CL2 CEC: CM CMG FT4 HLBCD (Haz Loc)	1000 6000	305 1829	220.5 1491.2	100.0 676.4	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	*0.238 **0.563	*6.05 **14.30	78	66%	19.7	64.6	see above		
																			
* Over Armor ** Under Armor			Color Code: Clear, Blue							Allen-Bradley P/N 1770-CD									
Polyethylene Insulation • Blue PVC Inner Jacket • Continuously Corrugated Aluminum Armor • Blue Sunlight-Resistant PVC Outer Jacket																			
300V 60°C Continuously Armored	**189463**	NEC: PLTC	2000	610	258.2	117.1	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	*0.238 **0.500	*6.05 **12.70	78	66%	19.7	64.6	see above		
																			
* Over Armor ** Under Armor			Color Code: Clear, Blue							Allen-Bradley P/N 1770-CD									

TC = Tinned Copper • DCR = DC resistance

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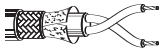
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Industrial Data Solutions® – Industrial Twinax

Twinaxial Cables

INDUSTRIALTUFF™

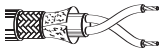
Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
20 AWG • Stranded (7x28) 1.0 mm One Tinned, One Bare Copper • **Duofoil®** • 86 % Tinned Copper Braid																			
Polyethylene Insulation • Polyethylene Inner Jacket • Black PVC Outer Jacket																			
75°C	**9207**	NEC:	100	31	7.1	3.2	0.96 mm	0.083	2.11	Overall	0.330	8.38	100	66 %	14.5	47.6	1	0.3	1.0
		CMG CL2	U-500	U-152	34.2	15.5	20 AWG			Duofoil®							10	1.2	3.9
		CEC:	500	152	34.6	15.7	(7x28) TC + BC			+ Overall							50	2.8	9.2
		CMG FT4	1000	305	68.1	30.9				86 % TC Braid							100	4.1	13.5
			1640	500	111.8	50.7											200	6.4	21.0
			2000	610	136.2	61.8											400	10.2	33.5
			3280	1000	220.2	99.9													
			5000	1524	350.8	159.1													



Color Code: Clear, Clear IBM P/N 7362211

CPE jacket optional

Polyethylene Insulation • Black FRNC/LSNH Jacket																			
80°C	**9207NH**	IEC 332	1000	305	44.3	20.1	0.96 mm	0.077	1.96	Overall	0.339	8.60	100	66 %	14.5	47.6			see above
		BS 7655	1640	500	69.9	31.7	20 AWG			Duofoil®									
			3280	1000	143.7	65.2	(7x28) TC + BC			+ Overall									
										86 % TC Braid									



Color Code: Clear, Clear

16 AWG • Solid 1.3 mm Bare Copper • **Duofoil®** • 90 % Tinned Copper Braid																			
Foam Polyethylene Insulation • Black PVC Jacket																			
30V 60°C	**9860**	NEC:	500	152	52.0	23.6	1.29 mm	0.161	4.09	Overall	0.440	11.18	124	78 %	10.9	35.8	1	0.2	0.6
UL AWM Style 2448		CMX	1000	305	103.2	46.8	16 AWG			Duofoil®							10	0.7	2.3
		CEC:	2000	610	202.4	91.8	Solid BC			+ Overall							50	1.8	5.9
		CMX								90 % TC Braid							100	2.9	9.5
																	200	4.1	13.5
																	400	6.2	20.3



Color Code: Clear, Blue

CPE jacket optional

Foam Polyethylene Insulation • Black FRNC/LSNH Jacket																			
80°C	**9860NH**	IEC 332	1640	500	183.0	83.0	1.29 mm	0.161	4.09	Overall	0.441	11.20	124	78 %	10.9	35.8			see above
		BS 7655	3280	1000	354.9	161.0	16 AWG			Duofoil®									
							Solid BC			+ Overall									
										90 % TC Braid									



Color Code: Clear, Blue

Foam Polyethylene Insulation • FRNC/LSNH Chrome Inner Jacket • Steel Wire Armor • Black FRNC/LSNH Outer Jacket																			
80°C	**9860LS**	IEC	1640	500	581.8	263.8	1.29 mm	0.161	4.09	Overall	*0.441	*11.20	124	78 %	10.9	35.8			see above
		332-3C	3280	1000	1262.6	572.7	16 AWG			Duofoil®	**0.650	**16.50							
		BS 7655					Solid BC			+ Overall									
										90 % TC Braid									



* Under Armor
** Over Armor

Color Code: Clear, Blue

TC = Tinned Copper • DCR = DC resistance
Duofoil® see technical information page 23.13.

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Industrial Data Solutions® – Industrial Twinax

Twinaxial Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
22 AWG • Stranded (19x34) 0.8 mm Tinned Copper • **Duofoil®** • 22 AWG Tinned Copper Drain Wire																			
Datalene® Insulation • Black PVC Jacket																			
30V 60°C UL AWM Style 2668	**9182**	NEC: CL2X CMX CEC: CMX	U-500 500 1000	U-152 152 305	22.5 22.9 44.1	10.2 10.4 20.0	0.78 mm 22 AWG (19x34) TC	0.137	3.49	Overall Duofoil® + Drain Wire (22 AWG TC)	0.345	8.76	150	78%	8.8	28.9	1 10 50 100 200 400	0.4 1.2 2.7 4.3 6.2 8.8	1.3 3.9 8.9 14.1 20.3 28.9
																			
VW-1																			
		Color Code: Black, Yellow								Dual version: YR41609 CPE jacket optional.									
Datalene® Insulation • Black FRNC/LSNH Jacket																			
300V 80°C	**9182NH**	IEC 332-1 BS 7655	1000 1640 3280	305 500 1000	50.3 80.0 150.1	22.8 36.3 68.1	0.78 mm 22 AWG (19x34) TC	0.136	3.45	Overall Duofoil® + Drain Wire (22 AWG TC)	0.346	8.80	150	78%	8.8	28.9	1 5 10 20 50 100 200 400	0.4 0.9 1.2 1.7 2.7 4.3 6.2 8.8	1.3 2.8 3.9 5.6 8.9 14.1 20.3 28.9
																			
		Color Code: Black, Yellow																	
Plenum • Foam FEP Teflon® Insulation • Black FEP Teflon® Jacket																			
	89182	NEC: CMP CL2P CEC: CMP FT6	100 † 500 † 1000	31 152 305	6.4 28.0 53.1	2.9 12.7 24.1	0.78 mm 22 AWG (19x34) TC	0.139	3.53	Overall Duofoil® + Drain Wire (22 AWG TC)	0.307	7.80	150	78%	8.8	28.9	1 10 50 100 200 400	0.4 1.2 2.7 4.3 6.2 8.8	1.3 3.9 8.9 14.1 20.3 28.9
																			
		Color Code: Black, Yellow																	

TC = Tinned Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.

Duofoil® see technical information page 23.13.

Teflon® is a DuPont trademark.

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Industrial Data Solutions® – Industrial Twinax

DataTray® 600V Twinaxial Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • **Beldfoil®** • 55% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire																			
Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket																			
600V 75°C UL Type TC	**3072F**	NEC:	250	76	17.6	8.0	1.22 mm	0.096	2.44	Overall	0.324	8.23	78	65%	19.5	64.0	1	0.5	1.7
		CMG, ITC	500	152	35.1	15.9	18 AWG			Beldfoil®							10	2.0	6.6
		TC, PLTC	1000	305	69.0	31.3	(7x26) TC			+ Overall							50	3.8	12.4
		CEC:	2500	762	170.2	77.2				55% TC Braid							100	5.4	17.6
		CMG FT4	5000	1524	345.2	156.6				+ Drain Wire							200	7.6	24.8
			10000	3049	710.5	322.3				(20 AWG TC)							400	10.7	35.1
Z-Fold®																			
VW-1																			
			Color Code: Natural, Blue							For CPE jacketed version order Part No. YM45044 P-MSHA-C-7K-1827*									
Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket																			
600V 75°C UL Type TC	**3073F**	NEC:	250	76	20.9	9.5	1.22 mm	0.123	3.12	Overall	0.388	9.86	100	65%	15.3	50.2	1	0.4	1.3
		CMG, ITC	1000	305	85.1	38.6	18 AWG			Beldfoil®							10	1.3	4.4
		TC, PLTC	5000	1524	420.4	190.7	(7x26) TC			+ Overall							50	3.0	9.7
		CEC:								55% TC Braid							100	4.2	13.8
		CMG FT4								+ Drain Wire							200	5.9	19.5
										(20 AWG TC)							400	7.5	24.7
Z-Fold®																			
			Color Code: Natural, Blue							CPE jacket optional.									
Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket																			
600V 75°C UL Type TC	**3074F**	NEC:	500	152	62.6	28.4	1.22 mm	0.164	4.17	Overall	0.460	11.68	124	65%	12.3	40.3	1	0.3	1.1
		CMG, ITC	1000	305	121.0	54.9	18 AWG			Beldfoil®							10	1.1	3.5
		TC, PLTC	2500	762	300.3	136.2	(7x26) TC			+ Overall							50	2.4	7.8
		CEC:								55% TC Braid							100	3.4	11.1
		CMG FT4								+ Drain Wire							200	4.8	15.7
										(20 AWG TC)							400	6.8	22.2
Z-Fold®																			
			Color Code: Natural, Blue							CPE jacket optional.									

TC = Tinned Copper • DCR = DC resistance

* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

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Industrial Data Solutions® – Industrial Coax

ControlNet™ Quad Shielded Coax

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
18 AWG • Solid 1.0 mm Copper-Covered Steel • **Duobond® IV** Quad Shield																			
Foam Polyethylene Insulation • PVC Jacket (Black or Intrinsically Safe Blue)																			
	3092A	NEC:	500	152	20.1	9.1	1.02 mm	0.180	4.57	Duobond® IV	0.298	7.57	75	82%	16.2	53.1	1	0.3	1.1
		CL2R CMR	1000	305	39.0	17.7	18 AWG			Quad Shield							2	0.4	1.2
		CEC:	2000	610	78.0	35.4	Solid CCS			11.8 Ω/km***							5	0.5	1.5
		CMG FT4	2500	762	92.6	42.0	103.6 Ω/km*										10	0.6	1.9
							91.8 Ω/km**										20	0.9	2.8
																	50	1.4	4.5
																	100	2.0	6.5
																	200	2.8	9.3
RG-6/U Type																	300	3.5	11.4
		Sweep tested 5 MHz to 50 MHz.								CPE jacket optional.							400	4.1	13.3
		For Rockwell authorized flexible ControlNet™ order YR28890 (Tinned Copper Braid version).																	
Plenum • Foam FEP Insulation • Fluorocopolymer Jacket (Black or Intrinsically Safe Blue)																			
150°C	**3093A**	NEC:	1000	305	40.1	18.2	1.02 mm	0.170	4.32	Duobond® IV	0.274	6.96	75	82%	16.3	53.5	1	0.4	1.2
		CMP	† 2000	610	80.0	36.3	18 AWG			Quad Shield							2	0.4	1.2
		CEC:	† 2500	762	95.0	43.1	Solid CCS			11.8 Ω/km***							5	0.5	1.6
		CMP FT6					103.6 Ω/km*										10	0.6	2.1
							91.8 Ω/km**										20	0.9	3.1
																	50	1.5	4.9
																	100	2.1	7.0
																	200	3.0	9.8
RG-6/U Type																	300	3.7	12.0
		Sweep tested 5 MHz to 50 MHz.								Allen-Bradley P/N 1786							400	4.2	13.9
		Blue available as standard in 305 m only.								Suitable for outdoor and direct burial applications									
18 AWG • Stranded (105x40) 1.0 mm Bare Copper • **Duobond® IV** Quad Shield																			
Foam Polyethylene Insulation • Black PVC Jacket																			
High-Flex	**3092F**	NEC:	1000	305	44.1	20.0	1.02 mm	0.183	4.65	Duobond® IV	0.303	7.70	75	79%	17.0	55.8	1	0.4	1.2
		CL2R CMR	5000	1524	220.0	99.8	18 AWG			Quad Shield							2	0.5	1.5
		CEC:					(105x40) BC			11.8 Ω/km***							5	0.8	2.6
		CMR FT4					46.2 Ω/km*										10	1.2	3.9
							34.4 Ω/km**										20	2.0	6.6
																	50	3.2	10.5
																	100	4.6	15.1
																	200	6.5	21.3
RG-6/U Type																	300	8.0	26.2
		Sweep tested 5 MHz to 400 MHz.								123092F – Aluminum Armor							400	9.3	30.5
		Allen-Bradley P/N 1786								133092F – Steel Armor									
		IEEE 802.4 MAP/IEEE 802.7 Mini-MAP.																	
		CPE jacket optional.																	
		For Rockwell authorized flexible ControlNet™ order YR28890 (Tinned Copper Braid version).																	

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • BC = Bare Copper • CCS = Copper-Covered Steel • DCR = DC resistance
† Final put-up length may vary 0% to +10% from length shown.

Duobond® IV see technical information page 23.13.

ControlNet™ is a ControlNet International trademark.

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Industrial Data Solutions® – Industrial Coax

ControlBus™ Quad Shielded Coax

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
18 AWG • Solid 1.0 mm Copper-Covered Steel • **Duobond® IV** Quad Shield																			
Gas-Injected Foam Polyethylene Insulation • Grey PVC Jacket																			
	3131A	NEC:	1000	305	41.0	18.6	1.02 mm	0.180	4.57	Duobond® IV	0.300	7.62	75	82%	16.2	53.1	1	0.3	1.1
		CL2R CMR	2500	762	100.1	45.4	18 AWG			Quad Shield							2	0.4	1.2
		CEC:					Solid CCS			11.8 Ω/km***							5	0.5	1.5
		CMG FT4					103.6 Ω/km*										10	0.6	1.9
							91.8 Ω/km**										20	0.9	2.8
																	50	1.4	4.5
																	100	2.0	6.5
RG-6/U Type																	200	2.8	9.3
																	300	3.5	11.4
		Sweep tested 5 MHz to 400 MHz. IEEE 802.4 MAP/IEEE 802.7 Mini-MAP					CPE jacket optional. Tap marks every 2.6 m to aid users in installation.										400	4.1	13.3
Plenum • Foam FEP Insulation • Grey Fluorocopolymer Jacket																			
150°C	**3132A**	NEC:	1000	305	36.2	16.4	1.02 mm	0.170	4.32	Duobond® IV	0.274	6.96	75	82%	16.3	53.5	1	0.4	1.2
		CMP					18 AWG			Quad Shield							2	0.4	1.2
		CEC:					Solid CCS			11.8 Ω/km***							5	0.5	1.6
		CMG FT6					103.6 Ω/km*										10	0.6	2.1
							91.8 Ω/km**										20	0.9	3.1
																	50	1.5	4.9
																	100	2.1	7.0
RG-6/U Type																	200	3.0	9.8
																	300	3.7	12.0
		Sweep tested 5 MHz to 400 MHz. IEEE 802.4 MAP/IEEE 802.7 Mini-MAP					Tap marks every 2.6 m to aid users in installation. Suitable for outdoor and direct burial applications.										400	4.2	13.9
14 AWG • Solid 1.6 mm Copper-Covered Steel • **Duobond® IV** Quad Shield																			
Gas-Injected Foam Polyethylene Insulation • Grey PVC Jacket																			
	3094A	NEC:	500	152	35.5	16.1	1.63 mm	0.280	7.11	Duobond® IV	0.407	10.34	75	82%	16.2	53.1	1	0.2	0.5
		CL2R CMR	1000	305	61.9	28.1	14 AWG			Quad Shield							2	0.2	0.6
		CEC:	2500	762	140.2	63.6	Solid CCS			4.9 Ω/km***							5	0.3	0.9
		CMG FT4					41.0 Ω/km*										10	0.4	1.2
							36.1 Ω/km**										20	0.5	1.8
																	50	0.8	2.7
																	100	1.2	3.8
RG-11/U Type																	200	1.6	5.3
																	300	2.0	6.5
		Sweep tested 5 MHz to 400 MHz. IEEE 802.4 MAP					CPE jacket optional. Tap marks every 2.6 m to aid users in installation.										400	2.3	7.5
Plenum • Foam FEP Insulation • Grey Fluorocopolymer Jacket																			
150°C	**3095A**	NEC:	1000	305	76.1	34.5	1.63 mm	0.280	7.11	Duobond® IV	0.387	9.83	75	82%	16.5	54.1	1	0.2	0.6
		CMP					14 AWG			Quad Shield							2	0.2	0.7
		CEC:					Solid CCS			12.8 Ω/km***							5	0.3	0.9
		CMG FT6					48.9 Ω/km*										10	0.4	1.3
							36.1 Ω/km**										20	0.6	2.0
																	50	1.2	3.9
																	100	1.7	5.6
RG-11/U Type																	200	2.5	8.2
																	300	3.0	10.0
		Sweep tested 5 MHz to 400 MHz. IEEE 802.4 MAP					Tap marks every 2.6 m to aid users in installation. Suitable for outdoor and direct burial applications.										400	3.5	11.5

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • CCS = Copper-Covered Steel • DCR = DC resistance

Duobond® IV see technical information page 23.13.

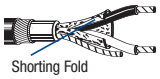
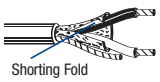
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Industrial Data Solutions® – Industrial Data

DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
FOUNDATION Fieldbus/PROFIBUS PA • 18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • **Beldfoil®** • 20 AWG Tinned Copper Drain Wire																			
Polyolefin Insulation • PVC Jacket (Orange and Blue)																			
Type A 300V 75°C (31.25 kbits/sec)	**3076F**	NEC: PLTC CM ITC CEC: CM	250 500 1000 2500 † 5000	76 152 305 762 1524	10.6 18.5 34.2 85.1 170.4	4.8 8.4 15.5 38.6 77.3	1.22 mm 18 AWG (7x26) TC	0.088	2.24	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.253	6.43	100 @ 31.25 KHz	66%	24.0	78.7	0.039	0.1	0.26
 Shorting Fold																			
Color Code: Orange, Blue Fieldbus: Orange jacket Profibus PA: Intrinsically safe Blue jacket. Blue available as standard in 305 m put-up only. CPE jacket optional.																			
123076F – Version with Aluminum Interlocked Armor 133076F – Version with Steel Interlocked Armor YM47023 – CPE jacketed version YM46698 – Black & White color-coded pairs YM47090 – Various colored jackets YM41725 – LSZH (FRNC) jacketed version																			
Polyolefin Insulation • FRNC/LSNH Jacket (Blue and Orange)																			
300V 80°C	**3076ENH**	IEC 332-3C BS 7655	1640 3280	500 1000	98.3 191.1	44.6 86.7	1.22 mm 18 AWG (7x26) TC	0.088	2.24	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.295	7.50	100	66%	24.4	80.0	0.01 0.039 0.1 0.5 1.0	0.1 0.2 0.2 0.6 1.0	0.4 0.5 0.8 2.1 3.2
 Shorting Fold																			
Color Code: White, Black																			
Polyolefin Insulation • FRNC/LSNH Inner Jacket (Black and Blue) • **Steel Wire Armor • Black FRNC/LSNH Outer Jacket**																			
300V 80°C	**3076ELS**	IEC 332-3C BS 7655	1640 3280	500 1000	394.8 737.0	179.1 334.3	1.22 mm 18 AWG (7x26) TC	0.088	2.24	Overall Beldfoil® + Drain Wire (20 AWG TC)	*0.295 **0.512	*7.50 **13.00	100	66%	24.4	80.0			see above
 Shorting Fold																			
* Under Armor ** Over Armor																			
Color Code: White, Black																			
FOUNDATION Fieldbus • 22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • **Beldfoil®** • 20 AWG Tinned Copper Drain Wire																			
Polyolefin Insulation • Orange PVC Jacket																			
Type B 300V 150°C (31.25 kbits/sec)	**3077F**	NEC: PLTC CM ITC CEC: CM	† 500 † 1000	152 305	11.0 22.9	5.0 10.4	0.76 mm 22 AWG (7x30) TC	0.059	1.50	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.196	4.97	100 @ 31.25 KHz	66%	23.5	77.1	0.039	0.1	0.5
 Shorting Fold																			
Color Code: Orange, Blue CPE and LSZH jacketed versions also available.																			
123077F – Version with Aluminum Interlocked Armor 133077F – Version with Steel Interlocked Armor																			
Polyolefin Insulation • FRNC/LSNH Jacket (Blue and Orange)																			
300V 80°C	**3077ENH**	IEC 332-3C BS 7655	1640 3280	500 1000	86.9 168.2	39.4 76.3	0.76 mm 22 AWG (7x30) TC	0.059	1.50	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.295	7.50	100	66%	25.9	85.0	0.01 0.039 0.1 0.5 1.0	0.2 0.2 0.3 1.1 1.6	0.6 0.7 0.9 3.5 5.1
 Shorting Fold																			
Color Code: White, Black																			
Polyolefin Insulation • FRNC/LSNH Inner Jacket (Black and Blue) • **Steel Wire Armor • Black FRNC/LSNH Outer Jacket**																			
300V 80°C	**3077ELS**	IEC 332-3C BS 7655	1640 3280	500 1000	381.8 741.8	173.2 336.5	0.76 mm 22 AWG (7x30) TC	0.059	1.50	Overall Beldfoil® + Drain Wire (20 AWG TC)	*0.295 **0.512	*7.50 **13.00	100	66%	25.9	85.0			see above
 Shorting Fold																			
* Under Armor ** Over Armor																			
Color Code: White, Black																			

TC = Tinned Copper • DCR = DC resistance
† Final put-up length may vary 0% to +10% from length shown.

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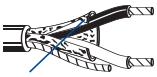
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Industrial Data Solutions® – Industrial Data

DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
FOUNDATION Fieldbus • 22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • **Beldfoil®** • 20 AWG Tinned Copper Drain Wire																			
FHDPE Insulation • Orange PVC Jacket																			
High Speed 300V 75°C (1.0 & 2.5 Mbits/sec)	**3078F**	NEC:	250	76	9.9	4.5	0.76 mm	0.121	3.07	Overall	0.351	8.92	150 @	78%	8.5	27.9	0.25	0.2	0.6
		PLTC CM	500	152	22.9	10.4	22 AWG			Beldfoil®			1 MHz				0.625	0.3	0.9
		CEC:	1000	305	44.1	20.0	(7x30) TC			+ Drain Wire							1.25	0.3	1.1
		CM	2500	762	115.1	52.2				(20 AWG TC)							3.125	0.6	1.8



Shorting Fold

Color Code: Orange, Blue
CPE and LSZH jacketed versions also available.

123078F – Version with Aluminum Interlocked Armor
133078F – Version with Steel Interlocked Armor

DataBus® PROFIBUS • DP EN50170-2-2

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
Profibus DP • 22 AWG • Solid 0.6 mm Bare Copper • **Beldfoil®** • 65% Tinned Copper Braid																			
FHDPE Insulation • Chrome and Violet PVC Jacket																			
300V 75°C	**3079A**	NEC:	1000	305	56.0	25.4	0.64 mm	0.099	2.52	Overall	0.315	8.00	150	78%	8.5	27.9	0.2	0.3	0.9
		PLTC CMG	2000	610	112.0	50.8	22 AWG			Beldfoil®							4	0.7	2.2
		CEC:	3600	1098	201.5	91.4	Solid BC			+ Overall							16	1.4	4.5
		CMG FT4								65% TC Braid							100	3.8	12.3
																	300	6.5	21.4



Color Code: Red, Green
Siemens Sinec L2 cable
UL AWM 20201 (600V)

123079A – Aluminum Interlocked Armor
133079A – Steel Interlocked Armor
YR45047 – CPE jacketed version
YR44731 – LSZH (FRNC) jacketed version

Profibus DP • 22 AWG • Stranded (7x30) 0.8 mm Bare Copper • **Beldfoil®** • 65% Tinned Copper Braid

FR-FPE Insulation • Violet PVC Jacket

300V 75°C	**3079E**	NEC:	1000	305	44.1	20.0	0.76 mm	0.099	2.52	Overall	0.315	8.00	150	78%	8.5	27.9	0.2	0.3	1.1
		PLTC CMG	1640	500	73.9	33.5	22 AWG			Beldfoil®							4	0.8	2.7
		CEC:	3280	1000	144.4	65.5	(7x30) BC			+ Overall							16	1.6	5.4
		CMG FT4								65% TC Braid									



Color Code: Red, Green
For CPE jacketed version order Part No. YR45047

Cellular Polyolefin Insulation • Violet FRNC/LSNH Jacket

300V 80°C	**3079ANH**	IEC	1000	305	214.1	97.1	0.64 mm	0.099	2.52	Overall	0.315	8.00	150	78%	8.8	29.0	0.2	0.3	0.9
		332-3C	1640	500	358.2	162.5	22 AWG			Beldfoil®							4	0.7	2.2
		BS 7655	3280	1000	711.2	322.6	Solid BC			+ Overall							16	1.4	4.5
										65% TC Braid							100	3.8	12.3



Color Code: Red, Green

Cellular Polyolefin Insulation • Black PVC Jacket • Steel Wire Armor

300V 80°C	**3079ALS**	IEC	1640	500	102.5	46.5	0.64 mm	0.099	2.52	Overall	*0.315	*8.00	150	78%	8.5	27.9	0.2	0.3	0.9
		332-3C	3280	1000	183.0	83.0	22 AWG			Beldfoil®	**0.488	**12.40					4	0.7	2.2
		BS 7655					Solid BC			+ Overall							16	1.4	4.5
										65% TC Braid									



* Under Armor
** Over Armor

Color Code: Red, Green

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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Industrial Data Solutions® – Industrial Data

DeviceBus® for ODVA DeviceNet™ Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD inch	Insulation OD mm
600V Class 1 Thick • 15 AWG and 18 AWG • Stranded Tinned Copper • **Beldfoil®** • 18 AWG TC Drain Wire • Overall 65% TC Braid																
PVC/Nylon Insulation (Power) • FEP Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																
High Velocity Thick 600V 75°C	**7897A**	NEC: TC-ER	500 1000 2000	152 305 610	69.7 135.1 274.3	31.6 61.3 124.4	Red, Black	0.461	11.70	Power	2-Conductor 15 AWG 1.7 mm (19x28) TC	Individual Beldfoil®	PVC/Nylon		0.099	2.51
							Blue, White			Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FEP		0.146	3.71
							Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-A									
600V Class 1 ODVA Cable V • 16 AWG and 18 AWG • Stranded TC • **Beldfoil®** • 16 AWG TC Drain Wire • Overall 65% TC Braid																
PVC/Nylon Insulation (Power) • F-R Polypropylene Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																
600V 75°C	**7896A**	NEC: TC-ER	500 1000 2000	152 305 610	89.1 168.0 339.9	40.4 76.2 154.2	Red, Black	0.525	13.34	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Individual Beldfoil®	PVC/Nylon		0.101	2.57
							Blue, White			Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 64% 120 Ohm	Individual Beldfoil®	F-R PP		0.182	4.62
C(UL) AWM I/II A/B							Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-A									
600V Class 1 ODVA IV • 16 AWG and 18 AWG • Stranded Tinned Copper • Unshielded																
PVC/Nylon Insulation (Power) • F-R Polypropylene Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																
Drop 600V 75°C	**7900A**	NEC: TC-ER	500 1000	152 305	50.9 104.9	23.1 47.6	Red, Black	0.430	10.92	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC/Nylon		0.101	2.57
							Blue, White			Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 64% 120 Ohm	Unshielded	F-R PP		0.098	2.49
							Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-C									
600V Class 2 Thick • 15 AWG and 18 AWG • Stranded Tinned Copper • **Beldfoil®** • 18 AWG TC Drain Wire • Overall 65% TC Braid																
PVC Insulation (Power) • FPE Insulation (Data) • Sunlight/Oil-Resistant PVC Jacket (Grey and Red)																
Thick 75°C UL AWM 20201	**3082A**	NEC: CMG PLTC-ER CEC: CMG FT4	500 1000 2000	152 305 610	71.0 138.0 280.0	32.2 62.6 127.0	Red, Black	0.480	12.19	Power	2-Conductor 15 AWG 1.7 mm (19x28) TC	Individual Beldfoil®	PVC		0.109	2.77
							Blue, White			Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE		0.150	3.81
C(UL) AWM I/II A							Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-A 152 m and 610 m put-ups not available in Red.									

TC = Tinned Copper • DCR = DC resistance

ODVA DeviceNet™ is an Open DeviceNet Vendor Association Inc. trademark.

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Industrial Data Solutions® – Industrial Data

DeviceBus® for ODVA DeviceNet™ Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD inch	Insulation OD mm
300V Class 2 Thick • 15 AWG and 18 AWG • Stranded Tinned Copper • **Beldfoil®** • 18 AWG TC Drain Wire • Overall 65% TC Braid																
PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																
High-Flex Thick 75°C UL AWM 20201	**3082F**	NEC: CMG PLTC-ER CEC: CMG FT4	500 1000 2000	152 305 610	72.5 140.0 284.0	32.9 63.5 128.8	Red, Black	0.480	12.19	Power	2-Conductor 15 AWG 1.7 mm (65x33) TC	Individual Beldfoil®	PVC		0.109	2.77
 C(UL) AWM I/II A							Blue, White			Data	2-Conductor 18 AWG 1.2 mm (65x36) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE		0.153	3.89
							Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-A 152 m and 610 m put-ups not available in Red.									
PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket																
Thick 75°C	**3083A**	NEC: CMG PLTC CEC: CMG FT4	1000 2000	305 610	136.9 278.0	62.1 126.1	Red, Black	0.475	12.07	Power	2-Conductor 15 AWG 1.7 mm (19x28) TC	Individual Beldfoil®	PVC		0.109	2.77
							Blue, White			Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE		0.150	3.81
							Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-A									
300V Class 2 Thin • 22 AWG and 24 AWG • Stranded Tinned Copper • **Beldfoil®** • 22 AWG TC Drain Wire • Overall 65% TC Braid																
PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																
Thin 75°C	**3084A**	NEC: CL2 CMG CEC: CMG FT4	500 1000 2000	152 305 610	22.0 47.0 96.1	10.0 21.3 43.6	Red, Black	0.280	7.11	Power	2-Conductor 22 AWG 0.78 mm (19x34) TC	Individual Beldfoil®	PVC		0.072	1.83
 C(UL) AWM I/II A							Blue, White			Data	2-Conductor 24 AWG 0.61 mm (19x36) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE		0.077	1.96
							Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-C 305 m put-up also available in Red.									
PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																
High-Flex Thin 75°C	**3084F**	NEC: CL2 CMG CEC: CMG FT4	500 1000 2000	152 305 610	22.0 47.0 96.1	10.0 21.3 43.6	Red, Black	0.275	6.99	Power	2-Conductor 22 AWG 0.76 mm (154x44) TC	Individual Beldfoil®	PVC		0.062	1.57
 C(UL) AWM I/II A							Blue, White			Data	2-Conductor 24 AWG 0.58 mm (105x44) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE		0.081	2.06
							Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-C									

TC = Tinned Copper • DCR = DC resistance

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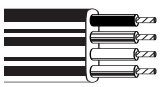
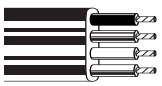
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Industrial Data Solutions® – Industrial Data

DeviceBus® for ODVA DeviceNet™ Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD inch	Insulation OD mm
300V Class 2 Thin • 22 AWG and 24 AWG • Stranded Tinned Copper • **Beldfoil®** • 22 AWG TC Drain Wire • Overall 65% TC Braid																
PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket																
Thin 75°C	**3085A**	NEC:	500	152	25.1	11.4	Red, Black	0.280	7.11	Power	2-Conductor 22 AWG 0.78 mm (19x34) TC	Individual Beldfoil®	PVC		0.072	1.83
		CL2 CMG	1000	305	47.2	21.4										
		CEC:	2000	610	96.1	43.6										
		CMG FT4														
							Blue, White			Data	2-Conductor 24 AWG 0.61 mm (19x36) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE		0.077	1.96
							Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-C									
300V Class 2 ODVA Cable III • 20 AWG and 18 AWG • Stranded TC • **Beldfoil®** • 20 AWG TC Drain Wire • Overall 65% TC Braid																
PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																
Mid 75°C	**7895A**	NEC:	500	152	41.0	18.6	Red, Black	0.378	9.60	Power	2-Conductor 20 AWG 0.94 mm (19x32) TC	Individual Beldfoil®	PVC		0.080	2.03
UL AWM 20201 (600V)		CMG	1000	305	84.0	38.1										
		PLTC														
		CEC:														
		CMG FT4														
							Blue, White			Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE		0.129	3.28
							Meter marks on jacket to aid users in installation.									
Flat • 16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Unshielded																
PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																
Class 2	**3082K**	NEC:	246	75	30.9	14.0	Red, Black	0.430 x 0.210	10.92 x 5.33	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC		0.110	2.80
300V 75°C		CMG CL2	656	200	78.7	35.7										
		PLTC	1378	420	165.6	75.1										
		CEC:														
		CMG FT4														
							Blue, White			Data	2-Conductor 16 AWG 1.47 mm (19x29) TC VOP: 75% 120 Ohm	Unshielded	FPE		0.110	2.80
							Allen-Bradley P/N 1485 CPI-G									
PVC Insulation (Power) • Black Sunlight-Resistant PVC Jacket																
Class 1 Power 600V 75°C	**3082KP**	NEC:	246	75	32.0	14.5	Red, Black	0.430 x 0.210	10.92 x 5.33	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC		0.110	2.80
		CMG ITC	656	200	81.3	36.9										
		PLTC TC	1378	420	171.1	77.6										
		CEC:														
		CMG FT4														
							Blue, White			Data	2-Conductor 16 AWG 1.47 mm (19x29) TC VOP: 75% 120 Ohm	Unshielded	PVC		0.110	2.80
							Allen-Bradley P/N 1485 CPI-G									

TC = Tinned Copper • DCR = DC resistance

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Industrial Data Solutions® – Industrial Data

DeviceBus® for Honeywell Smart Distributed System Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD inch	Insulation OD mm
22 AWG • Stranded Tinned Copper • Each Pair Individually **Beldfoil®** Shielded • 22 AWG Tinned Copper Drain Wire																
PVC Insulation (Power) • FPE Insulation (Data) • Grey PVC Jacket																
30V 80°C UL AWM Style 2464	**3087A**	NEC:	500	152	19.0	8.6	Blue, Brown	0.290	7.37	Power	2-Conductor 22 AWG 0.78 mm (19x34) TC	Individual Beldfoil®	PVC		0.050	1.27
		CL2	1000	305	41.0	18.6										
		CEC:	2000	610	84.0	38.1										
		FT1														
							Black, White			Data	2-Conductor 22 AWG 0.78 mm (19x34) TC VOP: 76% 120 Ohm	Individual Beldfoil®	FPE		0.098	2.49
CSA AWM I/II A Micro Cable (Drop)							Honeywell Smart Distributed System									
16 AWG and 20 AWG • Stranded Tinned Copper • Each Pair Individually **Beldfoil®** Shielded • 20 AWG Tinned Copper Drain Wire																
PVC Insulation (Power) • FPE Insulation (Data) • Grey PVC Jacket																
30V 80°C UL AWM Style 2464	**3086A**	NEC:	500	152	43.4	19.7	Blue, Brown	0.398	10.11	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Individual Beldfoil®	PVC		0.090	2.29
		CL2	1000	305	88.0	39.9										
		CEC:														
		FT1														
							Black, White			Data	2-Conductor 20 AWG 0.94 mm (19x32) TC VOP: 76% 120 Ohm	Individual Beldfoil®	FPE		0.120	3.05
CSA AWM I/II A Mini Cable (Trunk)							Honeywell Smart Distributed System									

TC = Tinned Copper • DCR = DC resistance

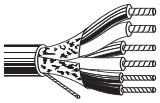
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Industrial Data Solutions® – Industrial Data

DeviceBus® for Square D/Seriplex® Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD inch	Insulation OD mm
18 AWG and 22 AWG • Stranded Tinned Copper • Overall **Beldfoil®** • 22 AWG Tinned Copper Drain Wire																
Foam HDPE Insulation (Power) • Foam HDPE Insulation (Data) • Orange PVC Jacket																
600V 75°C UL AWM Style 20201	**3124A**	NEC: CL2 CM CEC: CM	1000	305	47.0	21.3	Red, Black	0.308	7.82	Power	2-Conductor 18 AWG 1.2 mm (16x30) TC	Unshielded	Foam HDPE		0.098	2.49
							White, Green			Data	2-Conductor 22 AWG 0.76 mm (7x30) TC VOP: 78%	Unshielded	Foam HDPE		0.092	2.34
							Seriplex® CBL 1822-P18									
16 AWG and 22 AWG • Stranded Tinned Copper • Overall **Beldfoil®** • 22 AWG Tinned Copper Drain Wire																
Foam HDPE Insulation (Power) • Foam HDPE Insulation (Data) • Orange PVC Jacket																
300V 75°C	**3125A**	NEC: CL2 CM CEC: CM	500 1000	152 305	31.5 63.1	14.3 28.6	Red, Black	0.368	9.35	Power	2-Conductor 16 AWG 1.5 mm (26x30) TC	Unshielded	Foam HDPE		0.110	2.79
							White, Green			Data	2-Conductor 22 AWG 0.76 mm (7x30) TC VOP: 78%	Unshielded	Foam HDPE		0.110	2.79
							Seriplex® CBL 1622-P1									
16 AWG, 22 AWG and 12 AWG • Stranded Tinned Copper • Twisted Pair • Overall **Beldfoil®** • 22 AWG Tinned Copper Drain Wire																
Foam HDPE Insulation (Control) • Foam HDPE Insulation (Data) • PVC Insulation (Power) • Orange PVC Jacket																
300V 75°C	**3126A**	NEC: CL2 CM CEC: CM	1000	305	112.0	50.8	Red, Black	0.486 x 0.363	12.34 x 9.22	Control	2-Conductor 16 AWG 1.5 mm (26x30) TC VOP: 78%	Unshielded	Foam HDPE		0.110	2.79
							White, Green			Data	2-Conductor 22 AWG 0.76 mm (7x30) TC VOP: 78%	Unshielded	Foam HDPE		0.110	2.79
							Black/White, Red/White			Power	2-Conductor 12 AWG 2.41 mm (65x30) TC VOP: 48%	Unshielded	PVC		0.123	3.12
							Seriplex® CBL 162212-P16									

TC = Tinned Copper • DCR = DC resistance

Seriplex® is a Square D/Schneider AEG registered trademark.

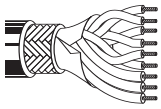
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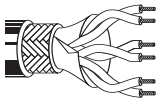
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Industrial Data Solutions® – Industrial Data

DeviceBus® for Phoenix Contact InterBus®-S Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD inch	Insulation OD mm
18 AWG and 24 AWG • Stranded Tinned Copper • Overall **Beldfoil®** + 90% Tinned Copper Braid																
PVC Insulation (Power) • Polyethylene Insulation (Data) • Green Polyurethane Jacket																
300V 80°C UL AWM Style 20233	**3119A**		500 1000	152 305	35.5 71.0	16.1 32.2	Red, Blue and Green (with Yellow Stripe)	0.333	8.46	Control	3-Conductor 18 AWG 1.22 mm (7x26) TC	Unshielded	PVC		0.066	1.68
							White/Brown, Pink/Grey, Yellow/Green			Power	3-Pair 24 AWG 0.61 mm (7x32) TC VOP: 66% 100 Ohm	Unshielded	PE		0.056	1.42

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6mm Tinned Copper • Overall **Beldfoil®** + 90% Tinned Copper Braid																	
Polyethylene Insulation • Green Polyurethane Jacket																	
300V 80°C UL AWM Style 20233	**3120A**		500 1000	152 305	26.0 48.9	11.8 22.2	0.61 mm 24 AWG (7x32) TC	0.056	1.42	Overall Beldfoil® + Overall 90% TC Braid	0.277	7.04	100	66%	15.4	50.5	White/Brown, Pink/Grey, Yellow/Green
																	
3-Pair																	

TC = Tinned Copper • DCR = DC resistance

InterBus® is a Phoenix Contact trademark.

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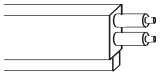
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Industrial Data Solutions® – Industrial Data

ASI Bus Flatcable

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
16 AWG • Stranded (84x0.15) 1.5 mm Tinned Copper																			
PVC Insulation • Yellow TPE-O Jacket																			
300V 80°C	**3999E**		328	100	63.9	29.0	1.5 mm 16 AWG (84x0.15) TC	0.096	2.45	Unshielded	0.157 x 0.394	4.00 x 10.00							



2-Conductor

Color Code: Blue, Brown

Industrial Data Solutions® – Industrial Data

EIA Industrial RS-485 PLTC/CM

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 90% Tinned Copper Braid • 22 AWG Tinned Copper Drain Wire																		
Datalene® Insulation • Black UV Resistant Jacket (CPE Jacket Optional)																		
300V Oil Res II		NEC: CM PLTC CEC: CM FT1					0.76 mm 22 AWG (7x30) TC	0.087	2.21	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (22 AWG TC)			120	78%				
3105A 1-Pair DMX512 Type			500 1000 † 5000	152 305 1524	23.0 50.0 255.2	10.4 22.7 115.8					0.284	7.21			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	see chart below
For CPE jacketed version order Part No. YR44345.																		
3106A 1.5-Pair*			500 1000 † 5000	152 305 1524	27.1 51.1 260.4	12.3 23.2 118.1					0.300	7.62			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	White/Orange, Orange/White Blue/White
For CPE jacketed version order Part No. YR46721.																		
3107A 2-Pair DMX512 Type			1000 4000 † 5000	305 1.219 1524	69.1 300.2 385.3	31.3 136.2 174.8					0.356	9.04			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	see chart below
For CPE jacketed version order Part No. YR46792.																		
3108A 3-Pair			1000 2000	305 610	93.0 184.0	42.2 83.5					0.420	10.67			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	see chart below
For CPE jacketed version order Part No. YR45287.																		
3109A 4-Pair			1000 2000	305 610	107.2 218.2	48.6 99.0					0.420	10.67			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	see chart below
For CPE jacketed version order Part No. YR44768.																		

TC = Tinned Copper • DCR = DC resistance

† Final put-up length may vary 0% to +10% from length shown. • * All conductors are under the braid shield; one pair is under the Beldfoil shield.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue/White Stripe
2	White/Orange Stripe, Orange/White Stripe
3	White/Green Stripe, Green/White Stripe
4	White/Brown Stripe, Brown/White Stripe

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Industrial Data Solutions® – Industrial Data

CC-Link Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
20 AWG • Stranded (7x28) 1.0 mm Bare Copper • **Beldfoil®** • 78% Tinned Copper Braid • 22 AWG Tinned Copper Drain Wire																			
Foam HDPE Insulation • Red PVC Jacket																			
60°C	**1348A**	NEC: CM CEC: CM	1000 2000	305 610	57.1 114.2	25.9 51.8	0.96 mm 20 AWG (7x28) BC	0.094	2.39	Overall Beldfoil® + Overall 78% TC Braid + Drain Wire (22 AWG TC)	0.303	7.70	110	75%	18.3	60.0	1 5	0.5 1.1	1.6 3.5
																			
3 CDR			Color Code: Blue, White, Yellow																

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD inch	Insulation OD mm
Power Limited Tray Cable • 16 AWG and 22 AWG • Stranded Tinned Copper • Overall **Beldfoil®** • 22 AWG Tinned Copper Drain Wire																
PVC Insulation (Power) • Foam HDPE Insulation (Data) • Red UV Resistant PVC Jacket																
105°C	**1349A**	NEC: PLTC CM CEC: CM	1000	305	126.1	57.2	White, Black	0.512	13.00	Power	2-Conductor 18 AWG 1.22 mm (7x26) TC	Unshielded	PVC	–	0.091	2.31
							Blue, White and Yellow			Data	3-Conductor 20 AWG 0.96 mm (7x28) TC VOP: 76% 110 Ohm	Beldfoil® 78% TC + Drain Wire	HDPE	PVC	0.098	2.49

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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Industrial Data Solutions® – Industrial Data

LonWorks Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
22 AWG • Solid 0.6 mm Bare Copper • Twisted Pair																			
Foam Polyethylene Insulation • White FRNC/LSNH Jacket																			
80°C	**7701NH**	IEC 332-3C BS 7655	1000 1640	305 500	10.6 17.6	4.8 8.0	0.64 mm 22 AWG Solid BC	0.046	1.17	Unshielded	0.138	3.50	100	68%	14.0	46.0	1 1 4 10 16 20	0.4 0.5 0.9 1.5 1.9 2.1	1.3 1.5 3.1 4.9 6.3 6.9
																			
1-Pair																			
Color Code: White/Blue, Blue/White																			
Foam Polyethylene Insulation • White FRNC/LSNH Jacket																			
80°C	**7702NH**	IEC 332-3C BS 7655	1000	305	19.6	8.9	0.64 mm 22 AWG Solid BC	0.046	1.14	Unshielded	0.205	5.20	100	68%	14.0	46.0	see above		
																			
2-Pair																			
Color Code: White/Blue, Blue/White, Orange/White, White/Orange																			
22 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • **Beldfoil®** • 24 AWG Tinned Copper Drain Wire																			
Foam Polyethylene Insulation • White FRNC/LSNH Jacket																			
80°C	**7703NH**	IEC 332-3C BS 7655	1000	305	17.9	8.1	0.64 mm 22 AWG Solid BC	0.061	1.55	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.181	4.60	100	68%	24.4	80.0	1 1 4 10 16 20	0.5 0.6 1.1 1.7 2.1 2.4	1.8 2.0 3.6 5.5 7.0 7.8
																			
1-Pair																			
Color Code: White/Blue, Blue/White																			
Foam Polyethylene Insulation • White FRNC/LSNH Jacket																			
	7704NH	IEC 332-3C BS 7655	1000 1640 3346	305 500 1020	27.1 44.3 88.6	12.3 20.1 40.2	0.64 mm 22 AWG Solid BC	0.053	1.35	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.256	6.50	100	68%	12.2	40.0	see above		
																			
2-Pair																			
Color Code: White/Blue, Blue/White, Orange/White, White/Orange																			
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair																			
PVC Insulation • Chrome PVC Jacket																			
UL AWM Style 2598	**8471**	NEC: CMG CEC: CMG FT4	U-500 500 U-1000 1000	U-152 152 U-305 305	20.1 20.1 39.0 40.1	9.1 9.1 17.7 18.2	1.47 mm 16 AWG (19x29) TC	0.105	2.67	Unshielded	0.274	6.96							
																			
1-Pair																			
Color Code: Black, White																			

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

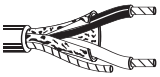
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Industrial Data Solutions® – Industrial Data

LonWorks Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair													
Polyethylene Insulation • Chrome FRNC/LSNH Jacket													
Part 1	**8471NH**	IEC 60332	1000 1640 3280	305 500 1000	60.5 66.1 132.3	27.5 30.0 60.0	1.47 mm 16 AWG (19x29) TC	0.105	2.67	Unshielded	0.280	7.10	Black, White
 1-Pair													
Polyethylene Insulation • FRNC/LSNH Inner Jacket • Steel Wire Armor • Chrome FRNC/LSNH Outer Jacket													
Part 1	**8471LS**	IEC 60332	1000 1640 3280	305 500 1000	248.9 407.9 815.7	112.9 185.0 370.0	1.47 mm 16 AWG (19x29) TC	0.032	0.81	Unshielded	0.413	10.50	Black, White
 1-Pair													
Tefzel® Insulation • Clear Tefzel® Jacket													
300V RMS 80° VW-1	**85102**		500 1000	152 305	20.1 33.1	9.1 15.0	1.47 mm 16 AWG (19x29) TC	0.015	0.38	Unshielded	0.211	5.36	Black, White
 1-Pair													
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 18 AWG Tinned Copper Drain Wire													
Polyethylene Insulation • Chrome PVC Jacket													
300V RMS 80° UL AWM Style 20253	**8719**	NEC: CM CL2 CEC: CM	U-500 500 U-1000 1000 2000 5000 10000	U-152 152 U-305 305 610 1524 3049	24.5 24.5 47.2 49.2 100.3 245.6 431.0	11.1 11.1 21.4 22.3 45.5 111.4 195.5	1.47 mm 16 AWG (19x29) TC	0.032	0.81	Overall Beldfoil® + Drain Wire (18 AWG TC)	0.313	7.95	Black, Clear
 1-Pair													

TC = Tinned Copper • DCR = DC resistance

Tefzel® is a DuPont trademark.

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Low-Capacitance Computer Cables for EIA RS-485 Applications

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Overall **Beldfoil®** + 90% Tinned Copper Braid • 24 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)			120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
																		
DMX 512	**9841**	1-Pair	100 500 1000	31 152 305	4.9 20.1 40.1	2.2 9.1 18.2					0.232	5.89						
	9842	2-Pair	100 500 1000	31 152 305	5.7 29.5 57.1	2.6 13.4 25.9					0.340	8.64						
	9843	3-Pair	100 500 1000	31 152 305	7.1 34.6 67.2	3.2 15.7 30.5					0.360	9.14						
	9844	4-Pair	500 1000	152 305	43.0 83.1	19.5 37.7					0.390	9.91						
Polyethylene Insulation • Chrome FRNC/LSNH Jacket																		
80°C		IEC 332-3C BS 7655					0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)			120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
																		
	9841NH	1-Pair	1000 1640 3280	305 500 1000	38.1 65.0 124.8	17.3 29.5 56.6					0.232	5.90						
	9842NH	2-Pair	1000 1640 3280	305 500 1000	64.4 102.7 196.4	29.2 46.6 89.1					0.341	8.65						
	9843NH	3-Pair	1000	305	69.0	31.3					0.358	9.10						
Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket																		
80°C		IEC 332-3C BS 7655					0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)			120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
																		
	9841LS	1-Pair	1000 1640 3280	305 500 1000	154.1 276.9 624.3	69.9 125.6 283.2					*0.232 **0.406	*5.90 **10.30						
* Under Armor ** Over Armor	**9842LS**	2-Pair	1000 1640 3280	305 500 1000	195.5 335.1 648.2	88.7 152.0 294.0					*0.341 **0.516	*8.65 **13.10						

TC = Tinned Copper • DCR = DC resistance

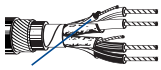
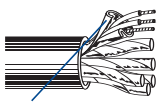
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Industrial Data Solutions® – Interconnect Cables

Shielded Twisted Pair Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 24 AWG Tinned Copper Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2493	**9729**	NEC: CM CEC: CM	100 500 1000 10000	31 152 305 3049	4.4 20.5 39.0 390.4	2.0 9.3 17.7 177.1	0.61 mm 24 AWG (7x32) TC	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.266	6.76	100	76%	CDR/CDR CDR/SCR	12.5 23.2	41.0 76.1	Red, Black White, Black
 Z-Fold®																		
2-Pair																		
Datalene® Insulation • Black FRNC/LSNH Jacket • Color Coded Foils (Red, Green)																		
300V 80°C	**9729NH**	IEC 332-3C BS 7655	1000 1640 3280	305 500 1000	44.1 74.5 137.3	20.0 33.8 62.3	0.61 mm 24 AWG (7x32) TC	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.335	8.50	100	76%	CDR/CDR CDR/SCR	12.5 23.2	41.0 76.1	Red, Black White, Black
 Z-Fold®																		
2-Pair																		
Datalene® Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket • Color Coded Foils (Red, Green)																		
300V 80°C	**9729LS**	IEC 332-3C BS 7655	1640 3280	500 1000	347.2 672.4	157.5 305.0	0.61 mm 24 AWG (7x32) TC	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)	*0.335 **0.512	*8.50 **13.00	100	76%	CDR/CDR CDR/SCR	12.5 23.2	41.0 76.1	Red, Black White, Black
 Z-Fold®																		
2-Pair																		
* Under Armor ** Over Armor																		
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 22 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919	**8777**	NEC: CM CEC: CM	100 250 U-500 500 U-1000 1000 1640 3280 5000 10000	31 76 U-152 152 U-305 305 500 1000 1524 3049	4.6 11.0 20.9 20.9 41.0 42.1 67.2 137.8 210.1 450.4	2.1 5.0 9.5 9.5 18.6 19.1 30.5 62.5 95.3 204.3	0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.273	6.93	50	66%	CDR/CDR CDR/SCR	30.0 55.0	98.0 180.0	Red, Black White, Black Green, Black
 Z-Fold®																		
For Plenum version of 8777, see 88777, 87777 or 82777.																		
3-Pair																		
Polypropylene Insulation • Chrome FRNC/LSNH Jacket • Color Coded Foils (Red, Green, Blue)																		
300V 80°C	**8777NH**	IEC 332-3C BS 7655	1000 1640 3280	305 500 1000	50.7 78.5 151.5	23.0 35.6 68.7	0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.276	7.00	50	66%	CDR/CDR CDR/SCR	30.0 55.0	98.4 180.4	Red, Black White, Black Green, Black
 Z-Fold®																		
3-Pair																		

TC = Tinned Copper • DCR = DC resistance

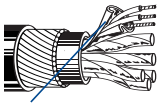
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22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 22 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket • Color Coded Foils (Red, Green, Blue)																		
300V 80°C	**8777LS**	IEC 332-3C BS 7655	1640 3280	500 1000	290.3 712.5	131.7 323.2	0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	*0.276 **0.425	*7.00 **10.80	50	66%	CDR/CDR CDR/SCR	30.0 55.0	98.4 180.4	Red, Black Green, White Green, Black
 Z-Fold® 3-Pair																		
* Under Armor ** Over Armor																		
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 24 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
300V RMS 60°C	**8723**	NEC: CM CEC: CM	100 U-500 500 U-1000 1000 1640 U-2000 2000 3280 5000 10000	31 U-152 152 U-305 305 500 U-610 610 1000 1524 3049	2.2 10.6 9.9 20.1 20.1 32.8 40.1 40.1 65.7 95.0 200.4	1.0 4.8 4.5 9.1 9.1 14.9 18.2 18.2 29.8 43.1 90.9	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.168	4.27	45	66%	CDR/CDR CDR/SCR	35.0 62.0	115.0 203.0	Red, Black Green, White
 2-Pair																		
For Plenum version of 8723, see 88723, 87723 or 82723 Pairs cabled on common axis to reduce diameter.																		
Polypropylene Insulation • Chrome FRNC/LSNH Jacket																		
300V 80°C	**8723NH**	IEC 332-3C BS 7655	1000 1640 3280	305 500 1000	23.1 36.8 75.0	10.5 16.7 34.0	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.179	4.55	45	66%	CDR/CDR CDR/SCR	35.0 62.0	114.8 203.4	Red, Black Green, White
 2-Pair																		
Pairs cabled on common axis to reduce diameter.																		
Polypropylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket																		
300V 80°C	**8723LS**	IEC 332-3C BS 7655	1640 3280	500 1000	168.7 350.1	76.5 158.8	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	*0.179 **0.346	*4.55 **8.80	45	66%	CDR/CDR CDR/SCR	35.0 62.0	114.8 203.4	Red, Black Green, White
 2-Pair																		
* Under Armor ** Over Armor																		
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS Non-conduit	**88723**	NEC: CMP CEC: CMP FT6	100 500 1000	31 152 305	3.3 11.0 20.9	1.5 5.0 9.5	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.148	3.76	40	69%	CDR/CDR CDR/SCR	35.0 67.0	115.0 220.0	Red, Black Green, White
 Z-Fold® 2-Pair																		

TC = Tinned Copper • DCR = DC resistance

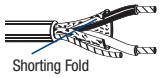
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18 AWG • Stranded (16x30) 1.2 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 20 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2092	**8760**	NEC: CM CEC: CM	250 U-500 500 U-1000 1000 2000 5000 10000	76 U-152 152 U-305 305 610 1524 3049	6.8 13.0 13.0 26.0 26.0 50.0 135.1 260.1	3.1 5.9 5.9 11.8 11.8 22.7 61.3 118.0	1.2 mm 18 AWG (16x30) TC	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.222	5.64	–	–	CDR/CDR CDR/SCR	24.0 44.0	79.0 144.0	Black, Clear
 Shorting Fold 1-Pair		For Plenum version of 8760, see 88760, 87760 or 82760.																
Polyethylene Insulation • Chrome FRNC/LSNH Jacket																		
300V 80°C	**8760NH**	IEC 332-3C BS 7655	1000 1640 3280	305 500 1000	34.6 54.2 110.5	15.7 24.6 50.1	1.2 mm 18 AWG (16x30) TC	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.236	6.00	60	66%	CDR/CDR CDR/SCR	24.0 44.0	78.7 144.4	Black, Clear
 Shorting Fold 1-Pair																		
Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket																		
300V 80°C	**8760LS**	IEC 332-3C BS 7655	1640 3280	500 1000	270.1 610.5	122.5 276.9	1.2 mm 18 AWG (16x30) TC	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	*0.236 **0.409	*6.00 **10.40	60	66%	CDR/CDR CDR/SCR	24.0 44.0	78.7 144.4	Black, Clear
 Shorting Fold 1-Pair																		

* Under Armor
** Over Armor

TC = Tinned Copper • DCR = DC resistance

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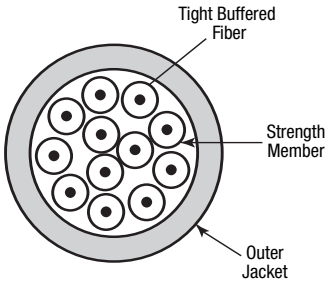
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Industrial Data Solutions® – Industrial Fiber

Tactical Mobile Fiber

INDUSTRIALTUFF™

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending Radii Cable (mm) static	Bending Radii Cable (mm) dynamic
GMMT • Intex Mobile • Tight Buffer • Designed for Despooling and Respooling • **A/I-VQ(ZN)H**																		
Dry Construction • PUR Jacket (Orange or Black)																		
70°C			6888	2100			Ø 280 ± 15			Longitudinal watertightness Swellable Reinforced Yarn			no					
GMMTx04	4		143.5	65.1							0.23	5.8	800	4	580	58	87	
GMMTx06	6		175.9	79.8							0.25	6.3	950	4	725	63	95	
GMMTx08	8		217.6	98.7							0.28	7.0	1100	4	890	70	105	



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Industrial Ethernet Fiber Optic Cable Selection Guide

This chart is meant to help users to select the right cable. Refer to cable specifications for details. See www.belden-emea.com for fiber optic cable recommendations and technical data sheets.

Part No.	Jacket Material	No. of Fibers	Description	Outer Diameter inch	Outer Diameter mm
Fiber (9/125) Micron, Single-mode, OS1 **Central Loose Tube, Steel Wire Armor, Improved Rodent Protection**					
GOWA904	PE	4	Outdoor, T12	0.421	10.7
GOWA908	PE	8	Outdoor, T12	0.421	10.7
GOWA912	PE	12	Outdoor, T12	0.421	10.7
GUWA908	FRNC	8	Universal, T12	0.421	10.7
GUWA912	FRNC	12	Universal, T12	0.421	10.7
GUWB924	FRNC	24	Universal, T24	0.543	13.8
GOWB924	FRNC	24	Outdoor, T24	0.543	13.8
Fiber (50/125) Micron, Multimode, OM2 **Central Loose Tube, Steel Wire Armor, Improved Rodent Protection**					
GOWA204	PE	4	Outdoor, T12	0.421	10.7
GOWA206	PE	6	Outdoor, T12	0.421	10.7
GOWA212	PE	12	Outdoor, T12	0.421	10.7
GUWA204	FRNC	4	Universal, T12	0.421	10.7
GUWA208	FRNC	8	Universal, T12	0.421	10.7
GUWA212	FRNC	12	Universal, T12	0.421	10.7

Part No.	Jacket Material	No. of Fibers	Description	Outer Diameter inch	Outer Diameter mm
Fiber (62.5/125) Micron, Multimode, OM1 **Central Loose Tube, Steel Wire Armor, Improved Rodent Protection**					
GOWA106	PE	6	Outdoor, T12	0.421	10.7
GOWA112	PE	12	Outdoor, T12	0.421	10.7
GUWA104	FRNC	4	Universal, T12	0.421	10.7
GUWA108	FRNC	8	Universal, T12	0.421	10.7
GUWA112	FRNC	12	Universal, T12	0.421	10.7
GUWB124	FRNC	24	Universal, T24	0.543	13.8

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Belden Infinity® Flexible Automation Cables

300V Flex Data Cables (1 Million Flex Cycles#)

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
Flex Data • 24 AWG • Stranded (41x40) 0.6 mm BC • Twisted Pair • Overall **Beldfoil®** Shield + Overall 85% TC Braid • 24 AWG TC Drain Wire																		
Foam Polyethylene Insulation with Skin • Bright Green Oil-Resistant PVC Jacket																		
300V 80°C 		NEC: CM CEC: CM					0.58 mm 24 AWG (41x40) BC	0.071	1.80	Overall Beldfoil® + Overall 85% TC Braid + Drain Wire (24 AWG TC)				–				
7200A	1-Pair		500 1000	152 305	17.0 38.1	7.7 17.3					0.240	6.10	120		CDR/CDR	15	49	White, Blue
RS-232, RS-485																		
7201A	2-Pair		500 1000	152 305	31.1 60.0	14.1 27.2					0.322	8.18	120		CDR/CDR	15	49	see chart 5 (Tech Info Section)
RS-232, RS-485																		
7202A	3-Pair		500 1000	152 305	33.5 68.1	15.2 30.9					0.347	8.81	120		CDR/CDR	15	49	see chart 5 (Tech Info Section)
RS-232, RS-485																		
7203A	4-Pair		500 1000	152 305	39.0 79.1	17.7 35.9					0.362	9.20	120		CDR/CDR	15	49	see chart 5 (Tech Info Section)
RS-232, RS-485																		
7205A	1-Pair		500 1000	152 305	17.4 38.1	7.9 17.3					0.232	5.89	100		CDR/CDR	14	46	White, Blue
RS-232, RS-422																		
7206A	1-Pair		1000	305	59.1	26.8					0.302	7.67	150		CDR/CDR	10	33	White, Blue
RS-232, RS-485																		
Temp. Rating: -20° to 60°C (-5°C to 60°C flexing)																		

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Based on proper installation techniques in a C-track cable guide.

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Belden Infinity® Flexible Automation Cables

300V Flex Data Cables (1 Million Flex Cycles#)

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
Sub-Mini Type • 30 AWG • Stranded (7x38) 0.3 mm Tinned Cadmium Bronze • 95% Tinned Copper **French Braid®**																			
Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C UL AWM Style 1354	**7500A** 	CEC: FT1	† 250 † 500 † 1000	76 152 305	3.1 5.1 9.0	1.4 2.3 4.1	0.31 mm 30 AWG (7x38) TCB 379.9 Ω/km* 354.3 Ω/km**	0.056	1.42	French Braid® + 95% TC 43.6 Ω/km***	0.110	2.79	75	78%	16.7	54.8	2.2 5 10 30 50 100	0.9 1.4 2.0 3.4 4.4 6.4	2.95 4.59 6.56 11.16 14.44 21.00
CSA AWM I/II A/B																			
Mini Type • 25 AWG • Stranded (19x38) 0.5 mm Bare Copper • 95% Tinned Copper **French Braid®**																			
Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C UL AWM Style 1354	**7501A** 	CEC: FT1	† 500 † 1000	152 305	7.5 14.1	3.4 6.4	0.48 mm 25 AWG (19x38) BC 144.7 Ω/km* 114.8 Ω/km**	0.090	2.29	French Braid® + 95% TC 29.9 Ω/km***	0.146	3.71	75	77%	17.7	58.1	2.2 5 10 30 50 100	0.6 0.9 1.3 2.2 2.9 4.2	1.97 2.95 4.27 7.22 9.52 13.78
CSA AWM I/II A/B																			
RG-59 Type • 22 AWG • Stranded (19x34) 0.8 mm Bare Copper • 95% Tinned Copper **French Braid®**																			
Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C UL AWM Style 1354	**7502A** 	CEC: FT1	† 250 † 500 † 1000	76 152 305	10.6 18.1 34.0	4.8 8.2 15.4	0.79 mm 22 AWG (19x34) BC 65.0 Ω/km* 44.0 Ω/km**	0.146	3.71	French Braid® + 95% TC 21.0 Ω/km***	0.242	6.15	75	79%	18.0	59.1	2.2 5 10 30 50 100	0.4 0.5 0.8 1.4 1.8 2.7	1.31 1.64 2.63 4.59 5.91 8.86
CSA AWM I/II A/B																			
RG-6/U Type • 18 AWG • Stranded (7x15x40) 1.0 mm Bare Copper • 95% Tinned Copper **French Braid®**																			
Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C UL AWM Style 1354	**7503A** 	CEC: FT1	† 250 † 500 † 1000	76 152 305	12.1 20.9 40.1	5.5 9.5 18.2	1.02 mm 18 AWG (7x15x40) BC 62.7 Ω/km* 26.6 Ω/km**	0.185	4.70	French Braid® + 95% TC 36.1 Ω/km***	0.275	6.99	75	80%	17.3	56.8	2.2 5 10 30 50 100	0.3 0.4 0.6 1.1 1.5 2.2	0.98 1.31 1.97 3.61 4.92 7.22
CSA AWM I/II A/B																			
RG-11 Type • 16 AWG • Stranded (7x37x40) 1.7 mm Bare Copper • 95% Tinned Copper **French Braid®**																			
Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C UL AWM Style 1354	**7504A** 	CEC: FT1	† 1000	305	84.0	38.1	1.65 mm 16 AWG (7x37x40) BC 23.3 Ω/km* 11.5 Ω/km**	0.285	7.24	French Braid® + 95% TC 11.8 Ω/km***	0.405	10.29	75	81%	17.3	56.8	2.2 5 10 30 50 100	0.2 0.3 0.4 0.8 1.0 1.5	0.66 0.98 1.31 2.63 3.28 4.92
CSA AWM I/II A/B																			

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor
† Final put-up length may vary ±10% from length shown.

Based on proper installation techniques in a C-track cable guide.

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BELDEN
SENDING ALL THE RIGHT SIGNALS

BRILLIANCE®



Brilliance® Broadcast Cables

19

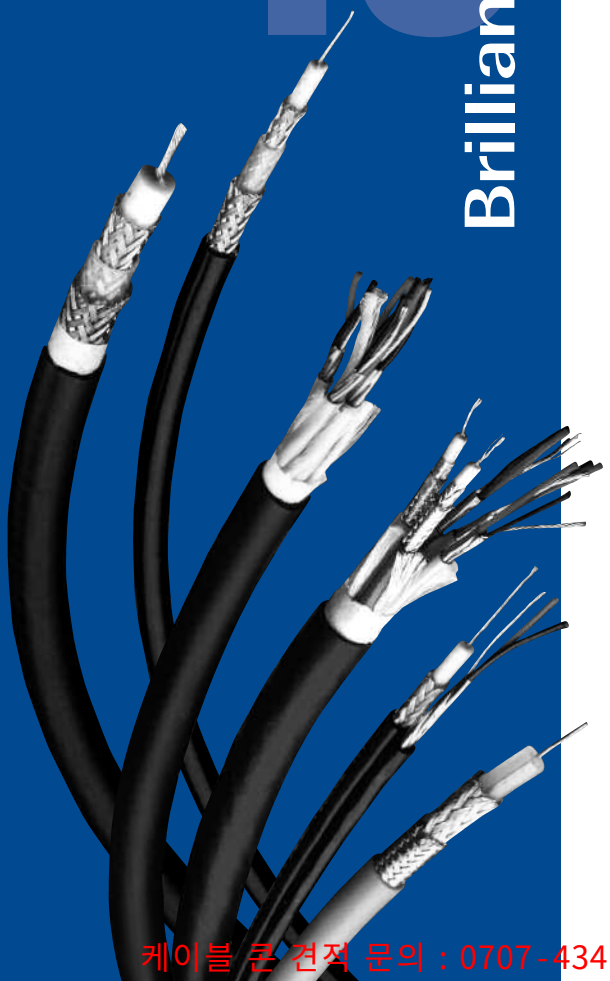


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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

BRILLIANCE®

The Broadcasters' Choice

Perhaps there is no other industry which values reliability so highly because inferior broadcast performance has immediate, far-reaching and embarrassing results. Cable performance means assured product quality, absolute signal integrity and no system downtime. Did you watch television last night or listen to the radio this morning? Chances are the link were made with Belden cable – and with so much dedication to development and innovation, the link with Belden increases.

Belden products offer the highest performance in both critical field applications (where cable is dragged, crunched and trodden on) and permanent studio installations (where long runs are all important). Belden cables are an important link in network and cable broadcasts (e.g. BBC, CNN, NBC, NOB, ZDF), film studios (Lucas film) and corporate broadcasting (USA Today, Merrill Lynch).

Key Applications

- Television monitors
- LCD screens
- Microphones
- Lighting, DMX
- VGA on large screens
- Animation, editing
- Loudspeakers
- HD/SDI

Key Markets

- Broadcast TV and radio, music and entertainment industries
- OB vans
- Sports, entertainment stadiums/arenas, theatres, cinemas and hotels
- Airports, convention centers and other public facilities
- Race tracks and casinos
- Film studios
- Cruise ships

Key Products

Belden's commitment to product innovation and technical excellence in the broadcast industry has resulted in a range of reliable audio and video cabling products called Brilliance®. Known for sound and picture brilliance and improved signal integrity, Brilliance® embraces all Belden audio/video products.

The range includes:

- **Optical Fiber Cables:**
  - HDTV Fiber/Copper Composite Cables
    Designed specifically for high-definition cameras, these composite cables can multiplex audio and video signals and power. The cables meet all the requirements of the SMPTE 311 standard developed by the Society of Motion Picture and Television Engineers (SMPTE). They are also compatible with industry standard SMPTE 304M connectors.
  - Mobile Fiber Cables
    Broadcast truck owners and operators always appreciate the chance to reduce the size and/or weight of any component being carried. Lighter weight Belden mobile optical fiber cable with PUR jacket is extreme rugged and designed for despooling and respooling.
  - Flexible Microphone Cables
    Belden microphone cable is used for connecting low level microphones. Key properties of microphone (MIC) cables are ruggedness, flexibility, flex life and interference immunity. Low impedance MIC cables use balanced 2-, 3- or 4-conductor (quad) designs.
  - High-Conductivity Copper Cables
    All Belden microphone cables with bare copper conductors (except: BE46349) use only high-conductivity copper. The refining process, called Electrolytic Tough Pitch (ETP), produces a copper conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115. The high purity obtained from ETP copper results in microphone cables performance that is comparable to that of oxygen-free copper cables.
  - Plastic Cables
    These are recommended for lower capacitance, lower loss, greater ozone and oil resistance, lighter weight, smaller diameter.
  - Rubber (EPDM) Cables
    These are recommended for greater abrasion and impact resistance and extra limpness so the cable will lie flat on stage or on studio floors.
  - Four-Conductor Star Quad Cables
    Quad connection scheme: The two blue wires (or wires directly opposite one another) are connected together to form one conductor; similarly the two white wires (or remaining wires) are connected together to form the second conductor. Conductors joined in this manner reduce the chance of induced noise.

- **Line Level Analog Audio Cables:** Belden analog audio cables are used for connecting line level audio equipment, in either permanent or semi-permanent installations. They consist of one or two individually foil-shielded, twisted pairs. Once installed, they are not intended to be moved while in operation. For cables that are in motion during use, refer to the microphone and musical instrument cable section in this catalog.

  Belden's analog audio cable range consists of several designs to handle a variety of audio applications. Belden part no. 8451 has a paper tape separator to facilitate easy long length jacket stripping. Part no. 9451 comes with a bonded Beldfoil® shield so that the shield and jacket strip simultaneously with automatic stripping equipment. A special matte PVC jacket material is used on part no. 1883A to make it a highly flexible construction. Double-pair cables are available in a round construction (part no. 8728).

- **Analog Multi-Pair Snake Cables:** Specially designed for the broadcast industry, Belden's full family of multi-pair audio "Snake" cables feature different options and constructions for virtually every application.
  - Applications
    Snake cables are used to connect multiple audio channels in low-level (microphone) and high-level (line) configurations, such as console board equipment for recording studios, radio television stations, post-production facilities and sound system installations. With Belden's individually shielded and jacketed snakes, pairs can be split out of the overall jacket for any length and connected directly without the need for heat shrink tubing or costly and time-consuming preparation. 26 AWG and 24 AWG sizes are also ideal for punch down connector applications.
  - Numbered and Color Coded
    Jacketed pairs are individually numbered and color coded (following the familiar resistor color code) for easy identification.

    Belden's BE46313 Series; jacketed pairs are grey and individually numbered.

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Introduction

- Mobile and Fixed Installations
  Foil-shielded multicore cables are mainly used for permanent installations while Belden's braid shield constructions are recommended for mobile (semi-permanent) applications.
- French Braid® Shield
  Belden's patented "French Braid" shield is a double spiral (double serve) bare copper shield with the two spirals tied together by one weave. This improves flex life over standard spiral shields, improves flexibility over conventional braid shields and lowers microphonic or triboelectric noise. The "French Braid" is easy to terminate since it is not fully woven. It also provides for lower DC loop resistance than the single spiral braid. The "French Braid" is featured in Belden's FleXnake® Cables (1900 Series) and quad snake cables (7880 Series).
- Beldfoil® Shield
  The foil shield of each pair is bonded to the jacket with the drain wire inside the foil. This makes the cable easier to strip. A standard stripping tool removes both the insulation and foil and greatly speeds up the installation time.

- **AES/EBU Digital Audio Cables:** The specification for digital audio was developed jointly by the Audio Engineering Society (AES) & European Broadcast Union (EBU). The key difference between twisted pair specifications for digital audio cable and standard analog audio cable is the impedance specification.

  The detailed specifications of this standard are:
  Sampling rate: from 32 KHz to 192 KHz
  Bandwidth: from 4.096 MHz to 24.5 MHz
  Impedance: 110 Ω ± 20%

Sampling Rate	Bandwidth
32 kHz	4.096 MHz
44.1 kHz	5.6448 MHz
48 kHz	6.144 MHz
96 kHz	12.228 MHz
192 kHz	24.576 MHz

  AES/EBU, with its broad tolerance, allows cables with impedances from 88 Ohm to 132 Ohm to be used. Standard analog audio cable impedance is 45 Ohm to 70 Ohm. This amount of potential mismatch can result in signal reflections and jitter, causing bit errors at the receiver. For this reason, Belden recommends 100 to 120 Ohm shielded twisted pair cables.

How to Choose a AES/EBU Cable.

Single and Double Pairs

- 9180
  26 Gage (0.14 mm²/0.5 mm), Beldfoil®, Datalene®
- 1800B
  24 Gage (0.22 mm²/0.6 mm), Beldfoil®, Datalene®
- 1802B
  24 Gage (0.22 mm²/0.6 mm), Beldfoil®, Datalene®, Double-Pairs
- 1800F
  24 Gage (0.22 mm²/0.6 mm), FrenchBraid®, Datalene®, several colors
- 1696A
  22 Gage (0.34 mm²/0.8 mm), Beldfoil®/FrenchBraid®, Datalene®

Multi-Pair Snake Cables

- 7880A Series
  26 Gage (0.14 mm²/0.5 mm),
  Beldfoil®/Overall Beldfoil®, Datalene®, Color coded
- BE46935 Series
  26 Gage (0.14 mm²/0.5 mm), Braid/Overall Braid, FRNC IEC 332-3C
- BE46266 SlimSnake™
  26 Gage (0.14 mm²/0.5 mm), Braid/Overall Braid, Halogen-Free
- 1803F Series
  24 Gage (0.22 mm²/0.6 mm),
  Beldfoil®/Overall Beldfoil®, Datalene®, Color coded

Maximum Recommended Transmission Distance at Digital Audio Data Rates

Part No.	AWG	2 MHz		4 MHz		5 MHz		6 MHz		12 MHz		25 MHz	
		ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m
110 Ohm													
9180, 7880A Series	26	1197	365	948	289	869	265	813	248	633	193	472	144
1800F	24	1233	376	922	281	764	233	666	203	423	129	279	85
1800B, 1802B, 1803F Series	24	1538	469	1282	391	1178	359	1105	337	876	267	649	198
1696A	22	2148	655	1738	530	1666	508	1538	469	1250	381	1014	309
75 Ohm													
179DT	28.5	1492	455	1197	365	1148	350	1004	306	722	220	522	159
1855A	23	3519	1073	2427	740	2175	663	1991	607	1538	469	1112	339
1505F	22	5881	1793	3772	1150	3332	1016	2985	910	2040	622	1387	423
1505A	20	4864	1483	3477	1060	3175	968	2909	887	2221	677	1538	469
1694A	18	5881	1793	4182	1275	3703	1129	3408	1039	2499	762	2001	610

Much longer transmission distance is achievable but is contingent upon system component quality.

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Introduction

BRILLIANCE®

- **Speaker Cables**
  Speaker cables are used to connect receivers or power amplifiers to speakers and are also used for the internal wiring of the speakers themselves.

  Because the impedance of the loudspeaker is quite low (typically 3 to 10 Ohm) much of the power conducted through the cable is carried in the current domain which is affected by conductor resistance. The resistance of the cable between the speaker and the amplifier turns some of the amplifier's power into heat and does not get to the speaker.

  The feedback from the speaker is altered by the cable. This feedback is used by the amplifier to correct the speaker's non-linearity. This is measured as the 'damping' factor by amplifier designers and is called "Servoing" by the Hi-fi community.

  In general, the higher the cable resistance, the lower the power level getting to the speaker. This results in "sloppier" speaker performance due to damping.

  Ultimately, the system designer must decide how to compromise system performance against system cost. In general, one of the least expensive ways to squeeze increased and better performance out of the system hardware is to use larger speaker cables and cut your losses where they occur rather than try to "band-aid" the system later with equalization or more power.

  The cable selection guide can aid in determining the proper gage selection depending on the speaker impedance, acceptable power loss and cable run length.

- **Special Cables**
  Cables listed in this section are for special audio applications – unbalanced audio cables, DMX512 cable and CatSnake™.

  - Unbalanced Audio Cables
    Traditional unbalanced (coaxial) cables use two lines to transmit the audio signal – a hot line which carries the signal and an earth line. This is all that is required to transmit audio and is common in short cables (where noise is less of a problem).

  - DMX512 Cables
    The DMX512 standard describes a method of digital data transmission between controllers and controlled lighting equipment and accessories, including dimmers and related equipment. The cable has a nominal characteristic impedance of 100 to 120 Ohm and shielded twisted pairs approved by its manufacturer for EIA-422/EIA-485-A use at 250 Kbits/second and distances of 500 meters or more.

  - CatSnake™
    Belden now offers Brilliance CatSnake™. This is a mobile Category 5e cable which employs Belden's patented bonded-pair design, for use in high traffic areas in a broadcast studio or in any type of tactical field deployable digital audio/video installation.

  - Video Triax Cables
    Triaxial cables are used to interconnect video cameras to related equipment. They contain two isolated shields and a solid or stranded center conductor. Isolated shields allow the triax to provide multiple functions over one cable through multiplexing techniques.

    Applications include: DC power to camera, intercom to operator, teleprompter feeds, monitoring feeds and even automatic or robotic functions.

    The O.D. describes size and distance – Triax 8 for short runs, Triax 11 for long runs and Triax 14 for very long runs.

    Silver-plated copper: Typical triax cable construction in the industry is bare copper. Four of Belden's new triax cables use silver-plated copper for the inner conductor and the first shield. This construction provides exceptional electrical characteristics (attenuation and impedance stability) for excellent picture quality over extended transmission distances. These cables are also suitable for the latest digital camera triax applications.

  - Standard Analog Video Cables
    Belden standard video cables are typically used in non-critical video applications such as video equipment rack wiring, Closed Circuit TV (CCTV), Master Antenna TV (MATV) and color or monochrome video monitor hook-ups. Applications such as these do not require precision video coaxes which have extremely tight electrical tolerances.

    Video coax cables have a characteristic impedance of 75 Ohm. This value was not chosen arbitrarily. Physics shows that optimum attenuation characteristics occur at 77 Ohm. Materials and design lead to the selection of 75 Ohm as the optimum compromise for low power applications. Standard video coaxes are available in both solid and stranded designs.

  - Low Loss HDTV/SDI Digital Coax
    HDTV/SDI video cables usually have solid center conductors and dual shields. The dielectrics can either be foamed or for better crush resistance have foamed HDPE insulation. Tighter impedance and attenuation tolerances, superior Return Loss (RL) specifications and improved shielding give precision video cables their no-compromise performance.

Cable Selection Guide

		4 Ω Speaker			8 Ω Speaker			70 V Speaker*		
		Power (%)/Loss dB/m								
AWG	mm²	11% 0.5	21% 1.0	50% 3.0	11% 0.5	21% 1.0	50% 3.0	11% 0.5	21% 1.0	50% 3.0
11	4.00	53	116	438	109	232	871	2637	5675	21341
13	2.50	34	74	282	71	151	564	1711	3678	13834
14	2.10	27	59	226	56	120	451	1369	2942	11067
16	1.50	18	38	143	35	76	285	866	1860	6997
26	0.14	2	6	21	5	11	41	127	273	1027

The number of meter of cable you can run for a given loss and performance budget.

How to Use the Guide

Step One:	Select the appropriate speaker impedance column.
Step Two:	Select the appropriate power loss column deemed to be acceptable.
Step Three:	Select the applicable wire gage size and follow the row over to the columns determined in steps one and two. The number listed is the maximum cable run length.
Example:	The maximum run for 11 AWG in a 4 Ohm speaker system with 11% or 0.5 dB loss is 53 m.

* 70 volt line drive systems, while considered a potential for Hi-fi performance, follow the same cable loss physics as the higher current (lower impedance) system. For the sake of this calculation a 25 watt 70 volts system (196 Ohm) was used.

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Introduction

The Future is HDTV

The Society of Motion Picture and Television Engineers (SMPTE) has developed several standards for serial digital video transmissions (SDI) and a 540 Mb/s format is currently under development. There is also a European standards body known as the ITU (formerly CCIR) that has developed the composite video standard for Europe known as PAL/SECAM. The most common is the 270 Mb/s SDI (Serial Digital Interface). All of the specifications differ in bandwidth requirements and transmission technology, i.e. composite, component and digital:

Data Rate	Bandwidth	Standard	Description
143 Mb/s	71.5 MHz	SMPTE 259M	NTSC
177 Mb/s	88.5 MHz	ITU-R BT.601	PAL/SECAM
270 Mb/s	135.0 MHz	SMPTE 259M	Component Video 4:3
360 Mb/s	180.0 MHz	SMPTE 259M	Component 16:9
540 Mb/s	270.0 MHz	SMPTE 344M	Component Widescreen
1.5 Gb/s	750.0 MHz	SMPTE 292M	HDTV

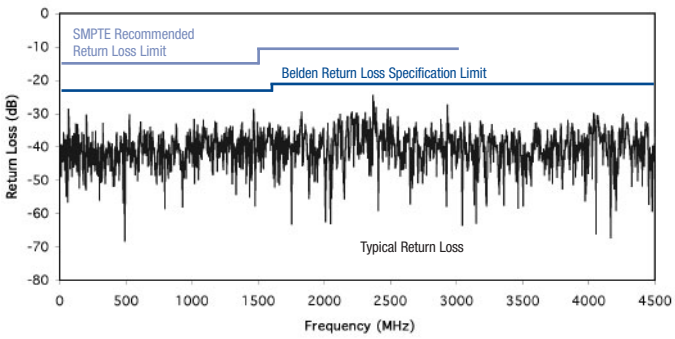
High Definition Television (HDTV) will require upgrades throughout the broadcasting industry, creating additional opportunities. International competitions such as the Olympic Games, Formula One, football and many other sporting events are very popular and demand the best broadcasting technology to guarantee viewer satisfaction.

Belden has a range of available coaxes that exceeds the SMPTE RL specification for HDTV distribution and provides maximum “RL headroom” to ensure that the user can achieve the SMPTE's requirement for signal distribution:

Specification RL Limit	RL	Frequency
SMPTE Recommendation	> 15 dB	5 - 1.5 GHz
Belden Guaranteed RL	> 23 dB	5 - 850 MHz
Belden Guaranteed RL	> 21 dB	850 MHz - 4.5 GHz

Using Belden coaxial cable will result in a minimum 6 dB of headroom to accommodate RL reduction created by connectors and patch-bays etc.

Below you will find the actual RL data of Belden 1505A. The cable is typically -30 dB:



Belden's extremely popular HDTV Brilliance® Broadcast video cables are now 4.5 GHz sweep tested! Prepared for 1080p formats, 1855, 1505A, 1694A and 7731A cables are sweep tested to 4.5 GHz. Belden has always tested every finished put-up to be certain of a top quality product. This is the only way in which damage introduced in finishing operations can be detected. This process sets Belden apart from competitors who only test in batches.

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Introduction

BRILLIANCE®

Maximum Transmission Distance at Serial Digital Data Rates

Data Rate:	143 Mb/s		177 Mb/s		270 Mb/s		360 Mb/s		540 Mb/s		1.5 Gb/s		1.5 Gb/s			3.0 Gb/s	
Spec:	SMPTE 259M		ITU-R BT .601		SMPTE 259M		SMPTE 259M		SMPTE 344M		SMPTE 292M		Independent Test			SMPTE 424M	
Application:	Composite NTSC		Composite PAL		Composite Video		Component Widescreen		Component Widescreen		HDTV		HDTV			Prog. Scan HDTV	
Part No.	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m		ft.	m
179DT	500	152	450	137	380	116	340	104	280	85	110	**34**	132	**40**	**+6**	80	24
1855A	980	299	950	290	790	241	680	207	560	171	260	**79**	263	**80**	**+1**	150	46
1855ENH	–	–	–	–	–	–	–	–	–	–	–	**–**	328	**100**	**–**	–	–
1505A	1430	436	1360	415	1110	338	970	296	790	241	310	**94**	394	**120**	**+26**	220	67
1505F	1200	366	1071	327	857	261	732	223	588	179	225	**69**	328	**100**	**+31**	–	–
1694A	1880	573	1710	521	1.430	436	1240	378	1010	308	400	**122**	459	**140**	**+18**	270	82
7731A	2750	838	2480	756	2.040	622	1760	536	1430	436	550	**168**	656	**200**	**+32**	360	110

Crush Resistance

Manufacturers may provide very good cable and test data for their product in the laboratory or on the package spool. However, the rigors of installation can have a serious affect on the actual physical layer performance.

Any change in impedance at any point would cause a reflection. This reflection may have serious repercussions on the cable's performance.

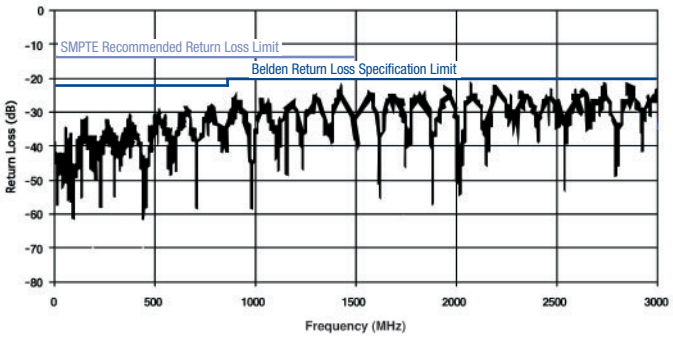
Belden products maintain superiority in crush resistance. Belden products use a gas-injected foam high-density polyethylene dielectric material in precision video cables in order to maintain:

- Better field ruggedness
- The ability to handle tighter bend radii
- More weight in cable trays
- Bending/flexing without pushing out the center pin and/or damaging attached equipment
- More rugged installation practices
- Plus various other environmental and installation benefits

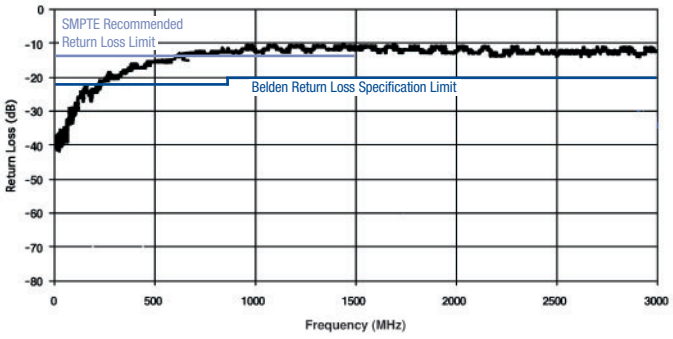
Return Loss (dB)

The tested cables were loaded with 50 N (50 Newton = 5 kilograms), according to EN50289-3-5.

75 Ohm Brilliance® precision video cable 1505A: RL 28 dB - 850 MHz, 22dB - 3 GHz



Manufacturer X: RL 12 dB - 850 MHz, 11 dB - 3 GHz



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Introduction

Connector Cross

Belden	Type	ADC	Bomar	Damar + Hagen	Fischer	Lemo	Neutrik	Radiall	Telegärtner	Trompeter	Vitelec
179DT	0.3/1.4	BNC-31	–	–	–	–	NBTC75 BF14	–	–	–	–
152xA	0.3/1.42 RGB	–	–	on request	–	FGG.3B.244.CL.CD82	NBTC75 BF14	R142.004.000	J01002A0027	-D7	VB10-2036
12xxR	0.45/1.9 RGB	BNC-16	–	1-xxxx-2100	–	9.1.04	NBTC75 BNN5	–	9.1.04	105-2053-9	–
14xxB	0.5/2.3 RGB	BNC-13	–	1-3397-3602	–	–	NBTC75 BVV5	–	–	-D1	–
1865A	0.5/2.4	BNC-12	–	on request	–	FFS0A.250.NTAC40	NBTC75 BXX6	R142.078.161	J01002F1350	-D1	VB10-2063
1855A	0.6/2.6	BNC-13	SBC1855A	1-6097-2100	–	FFS0A.250.NTAC47	NBNC75 BDD6	R142.081.320	J01002A0030	-D1	–
1855ENH	0.6/2.8	BNC-26	–	1-4271-2100	–	FFS0A.250.NTAE63	NBNC75 BFG7	R142.082.027	J01002A0018	-D24	–
8241	0.6/3.7	BNC-2	–	1-1190-2100	–	on request	NBNC75 BLP7	R142.016.000	J01002A0003	-D3	–
1505A	0.8/3.7	BNC-1	SBC1505A	1-4253-2100	–	FFS0A.250.NTAE63	NBNC75 BLP9	R142.084.161	J01002A0031	-D2	–
8281	0.8/4.9	BNC-3	–	1-1194-2100	–	on request	NBNC75 BXY9	R142.090.161	J01002A0014	-D10	VB10-2026
1694A	1.0/4.6	BNC-8	SBC1694A	1-4482-2100	–	on request	NBNC75 BTU11	R142.086.161	J01002A0010	-D4	VB10-2024
1694F	1.0/5.7	BNC-8F-N	–	–	–	–	–	–	–	–	–
7731A	1.6/7.2	BNC-25	SBC7731A	1-5044-2100	–	FFA.4E.675.CTAC10	NBLC75 BVZ17	R142.186.000	J01002A1940	-D5	–
7783A	Triax 8	ProAx™	–	Serie47	1051 A004-5	FFA.4E.675.CTAC85	–	–	–	305-1365-1	–
1856A	Triax 9	ProAx™	–	Serie47	1051 A004-5	FFA.4E.675.CTAC95	–	–	–	305-0088-2	–
7784A	Triax 11	ProAx™	–	Serie47	1051 A004-5	FFA.4E.675.CTAC11	–	R142.017.000	–	305-1289-1	–
7785A	Triax 14	ProAx™	–	Serie47	1051 A004-4	on request	–	–	–	–	–

ProAx™ is an ADC Krone trademark.

Multicore Cables

- **Video Multicore Cables**
  Belden's video multicore cables (RGBs) are designed for high resolution VGA on large screens, HDTV, Hi-Res CAD, animation, editing and special effects.

  RGB coaxial cables are used for sending Red, Green and Blue signals through separate coaxes in component video applications. This type of video transmission provides a sharper, clearer picture than the composite video format.

  Bundled coaxial cables are available in 3-, 4- or 5-conductor versions and are color coded for easy identification. Cable selection depends on whether the component transmission is RGB (3 cdr.), RGB and Sync (4 cdr.) or RGB, Sync and Hold (5 cdr.).

  All Belden RGB cables are pre-timed to less than 4.0 ns/m delay difference between each coax. This allows for cut-and-connect installation with no TDR or Vectorscope timing required.

- **Banana Peel® - RGB Cable without a Jacket**
  Series 1281 is an enhanced version of traditional RGB cables and feature 25 AWG solid copper center conductors for lower attenuation and easier termination. Flexible PVC jackets and high frequency Beldfoil® foil shields are used in combination with Belden's unique interlocked serve copper shield for 100 % coverage. The unique shielding design also prevents the shields from bunching up when flexed, yet the shield is easier to comb out than a full braid.

  Banana Peel® hi-res composite video cables will decrease labor costs because the overall jacket has been eliminated. Without the overall jacket, a whole step in the termination process has been removed. In addition, the individual cable components are all instantly identifiable (the individual cables are color-coded and the print legends are immediately visible). Jacketed RGB cables are also notoriously difficult to strip for termination – Banana Peel® RGBs overcome this problem.

  Exceptional Benefits:
  - Labor saving
  - Easy identification
  - Smaller outer diameter than jacketed version
  - More flexible than jacketed version

Availability

Most of our Brilliance® broadcast cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a Brilliance® broadcast cable in this catalog section that meets your technical requirements contact Technical Support at +31-77-3875-414 or techsupport.venlo@belden.com.

Corresponding Literature

Technical Bulletins

TB-65: Digital studio guide
TB E100: Video multicores
TB E101: Belden exceeds the standards of HD
TB E104: Flame retardant triax and coax

Product Bulletins

NP151: Siamese cables (9451D)
NP152: Star quad cables
NP183: 1505F, flexible version of 1505A
NP198: Mini High-Res RGBs (127xR)
NP207: DigiTruck (179DT)
NP217: Banana Peel® Mini-RGBs (Serie1281)
NP228: CatSnake™ (1305A)
NP233: 1694F, Flexible version of 1694A
NP234: Banana Peel® designed SDI RGBs (1855S5/1505S5)
NP108E: SlimSnake™ halogen-free AES/EBU multi-pair cable

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Optical Fiber Cables

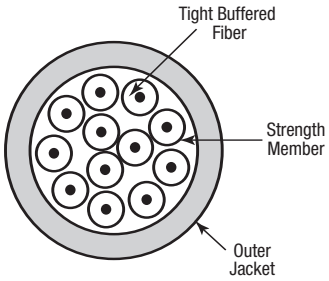
SMPTE 311M HDTV Cables

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Shielding Material	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Jacket Material & Colors	Component OD inch	Component OD mm
SMPTE 311M • 2 Power Conductors • SM Fiber w/24 and 16 AWG • Stranded (7x32 and 65x34) TC • Overall 95 % Tinned Copper Braid																
PVC Insulation • Black Belflex® Jacket																
	7804C	NEC:	328	100	33.1	15.0	–	+ 95 % TC Braid	0.362	9.20	2 x Fiber	2 Breakout Fibers SM/125µ/900µ core/clad/buffer	Unshielded	PVC Blue Yellow	0.079	2.00
		CMR	500	152	47.6	21.6										
		CEC:	1000	305	95.9	43.5										
		CMG FT4	1640	500	152.6	69.2										
			3280	1000	314.8	142.8					2 x Data	2 Conductors 24 AWG 0.61 mm (7x32) TC	Unshielded	PVC Red Grey	0.050	1.27
											2 x Power	2 Conductors 16 AWG 1.5 mm (65x34) TC	Unshielded	PVC Black White	0.093	2.36
Plenum version and other conductor counts/diameters available by special order. Fibers and aramid fillers contained within a 0.008″ (2.0 mm) diameter PVC breakout jacket.																
SMPTE 311M • 4 Power Conductors • SM Fiber w/24 and 20 AWG • Stranded (7x32 and 19x32) TC • Overall 95 % Tinned Copper Braid																
PVC Insulation • Black Belflex® Jacket																
	7804R	NEC:	328	100	32.8	14.9	–	+ 95 % TC Braid	0.362	9.20	2 x Fiber	2 Fibers SM/125µ/900µ core/clad/buffer	Unshielded	PVC Blue Yellow	0.035	0.89
		CMR	500	152	48.9	22.2										
		CEC:	1000	305	99.0	44.9										
		CMG FT4	1640	500	157.4	71.4										
			3280	1000	324.7	147.3					2 x Data	2 Conductors 24 AWG 0.61 mm (7x32) TC	Unshielded	PVC Red Grey	0.050	1.27
											4 x Power	4 Conductors 20 AWG 0.94 mm (19x32) TC	Unshielded	PVC Black White White/Black Black/White	0.063	1.60
Plenum version and other conductor counts/diameters available by special order.																

Tactical Mobile Optical Fiber

Description	Part No.	No. of Fibers	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Fiber Size µm	Nom. Buffer/Tube OD inch	Nom. Buffer/Tube OD mm	Strength Members	Nominal OD inch	Nominal OD mm	Central Element mm	Pulling Tension N	Crush Resistance kN/m	Energy kJ/m	Bending radii cable (mm) static	Bending radii cable (mm) dynamic
GMMT • Intex Mobile • Tight Buffer • Designed for Despooling and Respooling • **A/I-VQ(ZN)11Y**																		
Dry Construction • PUR Jacket (Orange or Black)																		
-30/70°C IEC 60332-1			6888	2100			Ø 280 ± 15			Longitudinal watertightness Swellable Reinforced Yarn			no					
	GMMTx04	4		143.5	65.1						0.23	5.8	800	4	580	58	87	
	GMMTx06	6		175.9	79.8						0.25	6.3	950	4	725	63	95	
	GMMTx08	8		217.6	98.7						0.28	7.0	1100	4	890	70	105	



Color coding of the buffered fibers: White, Red, Blue, Yellow, Green, Violet, Brown, Black
Optical characteristics see page 16.21.

TC = Tinned Copper • DCR = DC resistance

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Microphone and Musical Instrument Cables

Two-Conductor, Low-Impedance Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (105x44) 0.6 mm High-Conductivity (Oxygen-Free) BC • Conductors Cabled with Fillers • 97 % BC Double Spiral Braid																		
PVC Insulation • Matte Black PVC Jacket																		
300V RMS 80°C	**9397**		500	152	12.1	5.5	0.61 mm 24 AWG (105x44) BC	0.048	1.22	Overall Double Spiral + 97% BC Braid	0.176	4.47	47	–	CDR/CDR	47	154	White, Green
			1000	305	24.1	10.9									CDR/SCR	86	283	
 0.22 mm²			Pulling Tension: 44 N															
24 AWG • Stranded (32x0.1) 0.6 mm Bare Copper • Conductors Cabled with Fillers • 92 % Bare Copper Spiral Serve Braid																		
Polyethylene Insulation • PVC Jacket (Red, Yellow, Green, Blue, Grey, White and Black)																		
100V RMS 60°C	**BE46349**		328	100	9.3	4.2	0.6 mm 24 AWG (32x0.1) BC	0.057	1.45	Overall Spiral Serve + 92% BC Braid	0.240	6.10	–	–	CDR/CDR	18	60	Red, Blue
			1640	500	46.3	21.0									CDR/SCR	34	110	
			3280	1000	92.6	42.0												
 0.25 mm²			Pulling Tension: 44 N															
20 AWG • Stranded (26x34) 0.9 mm High-Conductivity (Oxygen-Free) TC • Cotton Wrap • Conductors Cabled • Rayon Braid • 85 % TC Braid																		
EPDM Rubber Insulation • EPDM Jacket (Black, Red, Yellow and Blue)																		
600V RMS 90°C	**8412**		100	31	5.2	2.4	0.94 mm 20 AWG (26x34) TC	0.083	2.11	Overall 85% TC Braid	0.262	6.65	52	–	CDR/CDR	30	98	White, Black
			250	76	12.1	5.5									CDR/SCR	55	180	
			U-500	U-152	24.0	10.9												
			500	152	24.0	10.9												
			U-1000	U-305	46.0	20.9												
 0.52 mm²			1000	305	47.1	21.4												
			Pulling Tension: 445 N Red, Yellow or Blue available in 305 m put-up only.															

Three-Conductor, Low-Impedance Cables

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (105x44) 0.6 mm High-Conductivity (Oxygen-Free) Bare Copper • Double Spiral Braid • 97% Bare Copper Braid																		
PVC Insulation • Matte Black PVC Jacket																		
300V RMS 80°C	**9398**		1000	305	25.1	11.4	0.61 mm 24 AWG (105x44) BC	0.048	1.22	Overall Double Spiral + 97% BC Braid	0.185	4.70	47	–	CDR/CDR	40	131	White, Green, Brown
															CDR/SCR	110	361	
 0.22 mm²			Pulling Tension: 200 N															

TC = Tinned Copper • BC = Bare Copper • EPDM = Ethylene Propylene Diene Monomer • DCR = DC resistance
SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Microphone and Musical Instrument Cables

Four-Conductor, Star-Quad

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
28 AWG • Stranded (19x40) 0.4 mm High-Conductivity (Oxygen-Free) Silver-Plated Copper Alloy • 78% Tinned Copper Braid																		
Polypropylene Insulation • Matte PVC Jacket (Red, Yellow, Blue, Beige and Black)																		
100V RMS 60°C	**1804A***		100 ▲500	31 152	1.6 4.5	0.7 2.0	0.38 mm 28 AWG (19x40) SPC	0.030	0.76	Overall 78% TC Braid	0.115	2.92	40	–	CDR/CDR CDR/SCR	40 60	131 196	see chart below
 0.09 mm²			31 m put-up available in Black only.							2/c 23 AWG equivalent DCR when connected to a 3-pin XLR. Pulling Tension: 106 N								
26 AWG • Stranded (30x40) 0.5 mm High-Conductivity (Oxygen-Free) BC • Conductors Cabled • 95% TC French Braid® • 28 AWG BC Drain Wire																		
Polyethylene Insulation • Matte PVC Jacket (Red, Green, Yellow, Blue, Grey and Black)																		
100V RMS 60°C	**1172A***		500 1000	152 305	13.5 27.0	6.1 12.2	0.53 mm 26 AWG (30x40) BC	0.045	1.14	Overall French Braid® 95% TC + Drain Wire (28 AWG BC)	0.190	4.83	39	–	CDR/CDR CDR/SCR	39 57	129 188	see chart below
 0.14 mm²			152 m put-up available in Black only.							2/c 23 AWG equivalent DCR when connected to a 3-pin XLR. Pulling Tension: 164 N								
24 AWG • Stranded (41x40) 0.6 mm High-Conductivity (Oxygen-Free) Bare Copper • Conductors Cabled • 95% Tinned Copper Braid																		
Polyethylene Insulation • Matte PVC Jacket (Red, Green, Yellow, Blue, Grey and Black)																		
100V RMS 75°C	**1192A***		100 500 1000	31 152 305	4.1 16.5 37.0	1.9 7.5 16.8	0.58 mm 24 AWG (41x40) BC	0.056	1.42	Overall 95% TC Braid	0.245	6.22	40	–	CDR/CDR CDR/SCR	39 57	129 188	see chart below
 0.22 mm²			31 m put-up available in Black only. 152 m put-up available in Blue or Black only.							2/c 21 AWG equivalent DCR when connected to a 3-pin XLR. Pulling Tension: 93 N								
20 AWG • Stranded (26x34) 0.9 mm High-Conductivity (Oxygen-Free) TC • Cotton Wrap • Conductors Cabled • Rayon Braid • 85% TC Braid																		
EPDM Rubber Insulation • Cotton Wrap • Black EPDM Rubber Jacket																		
600V RMS 90°C	**8424**		100 250 U-500 500 1000	31 76 U-152 152 305	6.8 16.8 32.0 32.6 64.1	3.1 7.6 14.5 14.8 29.1	0.91 mm 20 AWG (26x34) TC	0.083	2.11	Overall 85% TC Braid	0.294	7.47	52	–	CDR/CDR CDR/SCR	47 59	154 194	Black, White, Red, Green
 0.52 mm²			2/c 17 AWG equivalent DCR when connected to a 3-pin XLR. Pulling Tension: 387 N															

TC = Tinned Copper • BC = Bare Copper • SPC = Silver-Plated Copper • DCR = DC resistance
SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
* One Blue conductor and one White conductor are striped for use in MIDI and other four conductor applications.
▲ May contain more than one piece. Min. length of any one piece is 15 m (50 ft.).

Color Code

Pair No.	Color
1	Blue
2	White
3	Blue with White Stripe
4	White with Blue Stripe

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Line Level Analog Audio Cables

Single- and Double-Pair Cables
Audio-Connect

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper Conductors • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Grey PVC Jacket																		
300V RMS	**1883A**	NEC:	U-1000	U-305	11.0	5.0	0.61 mm	0.040	1.02	Overall	0.123	3.12	52	–	CDR/CDR	31	101	Black, Red
		CMR	1000	305	11.0	5.0	24 AWG			Beldfoil®					CDR/SCR	58	190	
		CEC:					(7x32) TC			+ Drain Wire								
		CMG FT4								(24 AWG TC)								
0.22 mm²																		
			U-305 m put-up also available in Brown, Red, Orange, Yellow, Green, Blue, Violet, White or Black. Jacket and shield are bonded so both can be removed with automatic stripping equipment. Pulling Tension: 71 N															
24 AWG • Stranded (19x36) 0.6 mm High-Conductivity (Oxygen-Free) Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield (Unbonded) • 24 AWG Tinned Copper Drain Wire • Noise Reducing Tape																		
High-density Polyethylene Insulation • Black PVC Jacket																		
200V RMS	**9452**		U-500	U-152	6.6	3.0	0.61 mm	0.040	1.02	Overall	0.135	3.43	56	–	CDR/CDR	30	98	Black, Red
75°C			500	152	6.0	2.7	24 AWG			Beldfoil®					CDR/SCR	58	190	
			U-1000	U-305	12.0	5.4	(19x36) TC			+ Drain Wire								
			1000	305	12.0	5.4				(24 AWG TC)								
Shorting Fold																		
0.22 mm²			Pulling Tension: 79 N															
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 22 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • PVC Jacket (Black, Grey, Brown, Red, Orange, Yellow, Green, Blue, Violet and White)																		
300V RMS	**9451**	NEC:	U-500	U-152	8.0	3.6	0.76 mm	0.050	1.27	Overall	0.135	3.43	45	–	CDR/CDR	35	115	Black, Red
75°C		CMR	500	152	8.0	3.6	22 AWG			Beldfoil®					CDR/SCR	67	220	
1-Pair		CEC:	T-1000	T-305	18.0	8.2	(7x30) TC			+ Drain Wire								
		CMG FT4	U-1000	U-305	16.0	7.3				(22 AWG TC)								
			5000	1524	75.0	34.0												
0.34 mm²			U-152 m, 152 m and T-305 m put-ups available in Grey only. The jacket and shield are bonded so both can be removed with automatic stripping equipment. Drain wire is inside foil shield. Pulling Tension: 120 N															
22 AWG • Stranded (7x30) 0.8 mm TC • Twisted Pair • Overall **Beldfoil®** Shield (Unbonded) • 22 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Paper Wrap • PVC Jacket (Black or Grey)																		
300V RMS	**8451**	NEC:	100	31	2.3	1.0	0.76 mm	0.050	1.27	Overall	0.138	3.51	45	–	CDR/CDR	34	112	Black, Red
75°C		CMR	U-500	U-152	8.5	3.9	22 AWG			Beldfoil®					CDR/SCR	67	220	
		CEC:	500	152	8.0	3.6	(7x30) TC			+ Drain Wire								
		CMR	U-1000	U-305	16.0	7.3				(22 AWG TC)								
			1000	305	16.0	7.3												
Z-Fold®																		
0.34 mm²			31 m put-up available in Black only. Pulling Tension: 120 N															
			Belden's miniature type broadcast audio and instrumentation cables occupy 1/2 to 2/3 less space than standard cables. Unique paper separator facilitates jacket stripping.															
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Dual Pairs • Overall **Beldfoil®** Shield (Unbonded) • 24 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
80°C	**8728**	NEC:	U-500	U-152	15.0	6.8	0.76 mm	0.050	1.27	Individual	0.215	5.46	50	–	CDR/CDR	35	115	Black, Red,
UL AWM Style 2717		CM	500	152	15.5	7.0	22 AWG			Beldfoil®					CDR/SCR	62	203	Green, White
		CEC:	U-1000	U-305	30.0	13.6	(7x30) TC			+ Drain Wire								
		CM	1000	305	31.0	14.1				(24 AWG TC)								
										+ Overall								
										Beldfoil®								
0.34 mm²			Each pair Beldfoil shielded with individual drain wire plus polyester film over each shield. Pulling Tension: 161 N															
Meets NEC Article 800																		

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

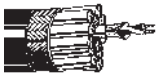
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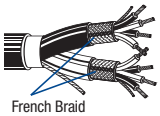
Analog Multi-Pair Snake Cables

Flexible, Field Use, Rugged-Stage Cables
Individually Shielded and Jacketed Pairs

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
26 AWG • Stranded (18x0.1) 0.5 mm TC • Each Pair Individually **TC Spiral Braid** • Numbered PVC Jackets • **Overall > 80% TC Braid**																		
Polyethylene Insulation • Overall Black PVC Jacket																		
100V RMS 75°C							0.48 mm 26 AWG (18x0.1) TC	0.041	1.05	Individual Spiral Serve > 90% TC Braid + Overall Braid			95	–	CDR/CDR	18	60	White, Red
															CDR/SCR	34	110	
								Jacketed Pairs O.D.: 0.122	3.10									
0.14 mm²	**BE46312**	4-Pair	1640	500	212.5	96.4					0.492	12.50						
	BE46313	8-Pair	1640	500	323.6	146.8					0.591	15.00						
	BE46315	12-Pair	1640	500	374.6	169.9					0.638	16.20						
	BE46305	16-Pair	1640	500	470.0	213.2					0.709	18.00						
	BE46306	24-Pair	820	250	343.9	156.0					0.882	22.40						
	BE46948	40-Pair	820	250	555.6	252.0					1.075	27.30						

Super-Flexible, High-Performance Cables, Star Quad
Individually Shielded and Jacketed Pairs

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
26 AWG • Stranded (19x38) 0.5 mm High-Conductivity (Oxygen-Free) Bare Copper • Each Pair 95% Bare Copper **French Braid®** • 26 AWG Tinned Copper Drain Wire • Numbered and Color Coded PVC Jackets																		
Polyethylene Insulation • Overall Black PVC Jacket with 20 AWG Tinned Copper Drain Wire																		
300V RMS 60°C							0.51 mm 26 AWG (19x38) BC	0.045	1.14	Individual French Braid® 95% BC + Drain Wire (26 AWG TC)			40	–	CDR/CDR	39	129	see chart below
															CDR/SCR	57	188	
French Braid								Jacketed Pairs O.D.: 0.157	3.99									Pulling Tension:
0.14 mm² Star-Quad	**7884A**	2-Pair	250	76	27.0	12.2					0.458	11.63						396 N
			† 500	152	49.0	22.2												
			† 1000	305	98.0	44.5												
	7885A	4-Pair	250	76	36.3	16.5					0.498	12.65						792 N
			† 500	152	70.5	32.0												
			† 1000	305	136.0	61.7												
	7886A	8-Pair	† 500	152	146.5	66.5					0.782	19.86						1584 N
			† 1000	305	314.0	142.4												
	7887A	12-Pair	250	76	89.5	40.6					0.828	21.03						2380 N
			† 500	152	177.5	80.5												
			† 1000	305	365.0	165.6												
	7888A	16-Pair	250	76	114.0	51.7					0.938	23.83						3172 N
			† 500	152	238.5	108.2												
			† 1000	305	468.0	212.3												
	7889A	24-Pair	† 500	152	396.0	179.6					1.232	31.29						4759 N
			† 1000	305	798.0	362.0												
2/c 21 AWG equivalent DCR when connected to a 3-pin XLR.																		

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
SCR = Capacitance between one conductor and other conductors connected to shield.
CDR = Capacitance between conductors
† Length may vary -10% to 0% from length shown.

Color Code

Pair No.	Color
1	Blue
2	White

Pair No.	Color
3	Blue with White Stripe
4	White with Blue Stripe

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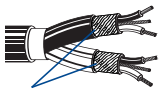
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Analog Multi-Pair Snake Cables

FleXnake® Super-Flexible, High-Performance Cables
Individually Shielded and Jacketed Pairs

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded (41x40) 0.6 mm High-Conductivity (Oxygen-Free) Bare Copper • Each Pair Individually 93% **French Braid®** • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded PVC Jackets																		
Polyolefin Insulation • Overall Black PVC Jacket																		
300V RMS 60°C							0.58 mm 24 AWG (41x40) BC	0.040	1.02	Individual French Braid® 93% + Drain Wire (24 AWG TC)			60	–	CDR/CDR CDR/SCR	26 48	86 156	Red, Black
								Jacketed Pairs O.D.: 0.119	3.02									
0.22 mm²																		Pulling Tension:
1902A	2-Pair		250	76	12.0	5.4					0.330	8.38						258 N
		†	500	152	27.5	12.5												
		†	1000	305	53.0	24.0												
1904A	4-Pair		250	76	19.8	9.0					0.333	8.45						534 N
		†	500	152	40.5	18.4												
		†	1000	305	78.0	35.4												
1906A	6-Pair		250	76	28.5	12.9					0.449	11.40						801 N
		†	500	152	55.5	25.2												
		†	1000	305	111.0	50.3												
1908A	8-Pair		250	76	36.0	16.3					0.480	12.20						1023 N
		†	500	152	72.5	32.9												
		†	1000	305	141.0	64.0												
1912A	12-Pair		250	76	51.8	23.5					0.602	15.30						1557 N
		†	500	152	102.5	46.5												
		†	1000	305	203.0	92.1												
1916A	16-Pair		250	76	71.0	32.2					0.681	17.30						2091 N
		†	500	152	138.0	62.6												
		†	1000	305	279.0	126.6												
1924A	24-Pair		250	76	108.0	49.0					0.827	21.00						3114 N
		†	500	152	214.5	97.3												
		†	1000	305	437.0	198.2												
1932A	32-Pair		250	76	135.3	61.4					0.969	24.60						4173 N
		†	500	152	274.0	124.3												
		†	1000	305	539.0	244.5												



French Braid

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Length may vary -10% to 0% from length shown.

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Analog Multi-Pair Snake Cables

Beldfoil® High-Performance Cables
Individually Shielded and Jacketed Pairs

BRILLIANCE®

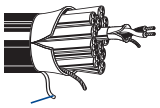
Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code

24 AWG • Stranded (7x32) 0.6 mm High-Conductivity (Oxygen-Free) Tinned Copper • Each Pair **Beldfoil®** Shielded • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded PVC Jackets • Overall **Beldfoil®** Shield • Rip Cord

Polyolefin Insulation • Overall Black PVC Jacket with 18 AWG Tinned Copper Drain Wire

300V RMS 75°C | NEC: CM CEC: CM | 0.61 mm 24 AWG (7x32) TC | 0.040 | 1.02 | Individual Beldfoil® + Drain Wire (24 AWG TC) + Overall Beldfoil® | 60 | – | CDR/CDR CDR/SCR | 31 58 | 102 190 | Brown, Red

Jacketed Pairs O.D.: 0.111 2.82



Pulling Tension:

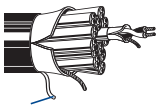
0.22 mm²	**1508A**	1-Pair	500 1000	152 305	6.5 11.0	2.9 5.0					0.131	3.33						73 N
	1509C	2-Pair	500 1000	152 305	24.0 46.0	10.9 20.9					0.301	7.65						246 N
	1510C	4-Pair	500 1000	152 305	35.5 72.0	16.1 32.7					0.352	8.94						393 N
	1511C	6-Pair	500 1000	152 305	52.0 102.0	23.6 46.3					0.418	10.61						544 N
	1512C	8-Pair	500 1000	152 305	65.5 124.0	29.7 56.2					0.452	11.48						676 N
	1513C (DT-12)	12-Pair	500 1000	152 305	89.5 178.0	40.6 80.7					0.561	14.25						980 N
	1514C	16-Pair	500 1000	152 305	122.5 241.0	55.6 109.3					0.628	15.95						1273 N
	1515C	20-Pair	500 1000	152 305	142.5 288.0	64.6 130.6					0.770	19.56						1567 N
	1516C	24-Pair	500 1000	152 305	180.5 371.0	81.9 168.3					0.807	20.50						1861 N
	1517C	26-Pair	500 1000	152 305	187.5 385.0	85.0 174.6					0.823	20.90						2007 N
	1518C	32-Pair	500 1000	152 305	236.5 481.0	107.3 218.2					0.897	22.78						2448 N
	1519C	52-Pair	500 1000	152 305	372.5 731.0	169.0 331.6					1.117	28.37						3916 N

24 AWG • Stranded (7x32) 0.6 mm High-Conductivity (Oxygen-Free) Tinned Copper • Each Pair **Beldfoil®** Shielded • 24 AWG Tinned Copper Drain Wire • Numbered FRNC Jackets • Overall **Beldfoil®** Shield • Rip Cord

Polyolefin Insulation • Overall Black FRNC/LSNH Jacket with 18 AWG Tinned Copper Drain Wire

300V RMS 75°C | NEC: CM CEC: CM | 0.61 mm 24 AWG (7x32) TC | 0.040 | 1.02 | Individual Beldfoil® + Drain Wire (24 AWG TC) + Overall Beldfoil® | 60 | – | CDR/CDR CDR/SCR | 28 55 | 92 180 | Brown, Red

Jacketed Pairs O.D.: 0.111 2.82



Pulling Tension:

0.22 mm²	**1508ENH**	1-Pair	1640 3280	500 1000	21.0 42.4	9.5 19.1					0.131	3.33						73 N
	1509ENH	2-Pair	1640	500	79.1	35.9					0.301	7.65						246 N
	1512ENH	8-Pair	1640 3280	500 1000	215.4 430.8	97.7 195.4					0.453	11.50						676 N

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

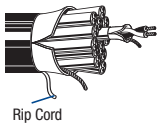
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Analog Multi-Pair Snake Cables

Beldfoil® High-Performance Cables, Long Runs
Individually Shielded and Jacketed Pairs

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
22 AWG • Stranded (7x30) 0.8 mm High-Conductivity (Oxygen-Free) Tinned Copper • Each Pair **Beldfoil®** Shielded • 22 AWG Tinned Copper Drain Wire • Numbered and Color Coded PVC Jackets • Overall **Beldfoil®** Shield • Rip Cord																		
Polyolefin Insulation • Overall Matte Black PVC Jacket with Stranded 18 AWG Tinned Copper Drain Wire, except 1814 with 22 AWG																		
300V RMS 60°C		NEC: CMR CEC: CMG FT4					0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Beldfoil®			50	66	CDR/CDR CDR/SCR	31.0 56.1	102 184	Red, Black
								Jacketed Pairs O.D.: 0.133	3.38									
0.35 mm²																		Pulling Tension:
	1814R	2-Pair	500 1000	152 305	30.0 59.0	13.6 26.8					0.330	8.38						283 N
	1815R	4-Pair	500 1000	152 305	45.0 91.0	20.4 41.3					0.383	9.74						485 N
	1816R	6-Pair	500 1000	152 305	65.0 131.0	29.5 59.4					0.462	11.73						838 N
	1817R	8-Pair	500 1000	152 305	80.0 152.0	36.3 68.9					0.503	12.78						1081 N
	1818R	12-Pair	500 1000	152 305	121.0 241.0	54.9 109.3					0.638	16.21						1623 N
	1819R	16-Pair	500 1000	152 305	180.0 364.0	81.6 165.1					0.776	19.71						2052 N
	1820R	20-Pair	500 1000	152 305	216.0 442.0	98.0 200.5					0.865	21.97						2538 N
	1821R	24-Pair	500 1000	152 305	263.5 518.0	119.5 235.0					0.969	24.61						3024 N
	1822R	26-Pair	500 1000	152 305	280.5 552.0	127.2 250.4					0.989	25.12						3266 N
	1823R	32-Pair	500 1000	152 305	335.5 692.0	152.2 313.9					1.072	27.23						3995 N



TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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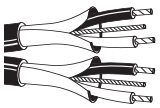
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

AES/EBU Digital Audio Cables

Single- and Double-Pair Cables

Audio-Connect

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
26 AWG • Stranded (7x34) 0.5 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 26 AWG Tinned Copper Drain Wire																			
Datalene® Insulation • PVC Jacket (Chrome or Violet)																			
300V RMS 75°C	**9180**	NEC: CMG CEC: CMG FT4	1000	305	10.0	4.5	0.48 mm 26 AWG (7x34) TC	0.049	1.24	Overall Beldfoil® + Drain Wire (26 AWG TC)	0.144	3.66	110	76%	13.0	42.6	2.0 4.1 5.6 11.3 12.3 24.6	1.7 2.1 2.4 3.1 3.2 4.2	5.5 7.0 7.9 10.1 10.4 13.8
 Shorting Fold																			
0.14 mm² Digital Video Time Code			Color Code: Black, White Pulling Tension: 46 N																
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire																			
Datalene® Insulation • PVC Jacket (Grey or Violet)																			
300V RMS 60°C	**1800B**	NEC: CMG CEC: CMG FT4	500 U-1000 1000 5000	152 U-305 305 1524	8.0 17.0 16.0 90.0	3.6 7.7 7.3 40.8	0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.177	4.50	110	76%	12.0	39.3	2.0 4.1 5.6 11.3 12.3 24.6	1.3 1.6 1.8 2.2 2.3 3.1	4.3 5.2 5.8 7.3 7.5 10.1
																			
0.22 mm²			152 m put-up available in Grey only. 1524 m put-up available in Violet only. Color Code: Red, Black							The jacket and shield are bonded so both can be removed with automatic stripping equipment. Pulling Tension: 73 N									
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Dual Twisted Pairs • Individual **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire																			
Datalene® Insulation • PVC Jacket (Grey or Violet)																			
300V RMS 60°C	**1802B**	NEC: CMG CEC: CMG FT4	500 U-1000 1000	152 U-305 305	16.5 35.0 37.0	7.5 15.9 16.8	0.61 mm 24 AWG (7x32) TC	0.068	1.73	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.180 x 0.360	4.57 x 9.14	110	76%	12.0	39.3	2.0 4.1 5.6 11.3 12.3 24.6	1.3 1.6 1.8 2.2 2.3 3.1	4.3 5.2 5.8 7.3 7.5 10.1
																			
0.22 mm²			Color Code: Red, Black							The jacket and shield are bonded so both can be removed with automatic stripping equipment. Pulling Tension: 73 N									
24 AWG • Stranded (41x40) 0.6 mm High-Conductivity (Oxygen-Free) Bare Copper • Twisted Pair with Fillers • Conductors Cabled with Fillers • 95% Tinned Copper **French Braid®** • 26 AWG Bare Copper Drain Wire																			
Datalene® Insulation • Matte PVC Jacket (Red, Yellow, Green, Blue, Grey and Black)																			
300V RMS 60°C	**1800F**	NEC: CL2R	500 U-1000 1000	152 U-305 305	12.0 26.0 24.0	5.4 11.8 10.9	0.58 mm 24 AWG (41x40) BC	0.058	1.47	Overall French Braid® 95% TC + Drain Wire (26 AWG BC)	0.211	5.36	110	76%	12.0	39.3	2.0 4.1 5.6 11.3 12.3 24.6	1.3 2.2 2.9 4.5 4.8 7.1	4.3 7.3 9.5 14.9 15.7 23.3
 French Braid																			
0.22 mm²			152 m and 305 m put-ups available in Black only. Color Code: Red, Black							Pulling Tension: 184 N									
22 AWG • Stranded (7x30) 0.8 mm TC • Twisted Pair with Fillers • Overall **Beldfoil®** Shield (Unbonded) • 90% TC **French Braid®** • 24 AWG Tinned Copper Drain Wire																			
Datalene® Insulation • Black High-Flex Matte PVC Jacket																			
300V RMS 60°C	**1696A**		250 500 U-1000 1000	76 152 U-305 305	8.0 14.5 30.0 32.0	3.6 6.6 13.6 14.5	0.76 mm 22 AWG (7x30) TC	0.082	2.08	Overall French Braid® 90% TC + Drain Wire (24 AWG TC)	0.234	5.94	110	76%	13.0	42.6	2.0 4.1 5.6 11.3 12.3 24.6	0.9 1.1 1.3 1.7 1.8 2.4	2.9 3.6 4.3 5.7 5.8 7.9
 Z-Fold®																			
0.34 mm²			Color Code: Light Blue, White Pulling Tension: 249 N																

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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AES/EBU Digital Multi-Pair Snake Cables

Beldfoil® High-Performance Cable, Low-Capacitance Individually Shielded and Jacketed Pairs

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m

26 AWG • Stranded (7x34) 0.5 mm High-Conductivity (Oxygen-Free) TC • Each Pair **Beldfoil®** Shielded • 26 AWG Tinned Copper Drain Wire • Numbered and Color Coded PVC Jackets • Overall **Beldfoil®** Shield • Rip Cord

Datalene® Insulation • Overall Matte Black PVC Jacket with 26 AWG Tinned Copper Drain Wire

300V RMS
80°C

NEC:
CMG
CEC:
CMG FT4

0.48 mm
26 AWG
(7x34) TC

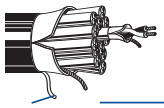
0.054 1.37

Individual Beldfoil®
+ Drain Wire
(26 AWG TC)
+ Overall Beldfoil®

Jacketed Pairs O.D.:
0.136 3.45

110 76% 13.0 42.7

2.0 1.7 5.5
4.0 2.1 6.9
5.0 2.3 7.5
6.0 2.5 8.1
12.0 3.2 10.4
25.0 4.2 13.8



Rip Cord
0.14 mm²

																		Pulling Tension:
7891A	2-Pair	500 1000	152 305	28.0 56.0	12.7 25.4						0.343	8.71						107 N
7890A	4-Pair	100 250 500 1000	31 76 152 305	8.2 18.0 31.0 61.0	3.7 8.2 14.1 27.7						0.399	10.13						200 N
7880A (Fits D-Sub connectors)	8-Pair	† 250 500 1000	76 152 305	28.0 57.0 142.0	12.7 25.9 64.4						0.541	13.74						374 N
7892A	12-Pair	500 1000	152 305	85.0 174.0	38.6 78.9						0.679	17.25						574 N
7893A	16-Pair	500 1000	152 305	109.5 240.0	49.7 108.9						0.770	19.56						761 N

Color Code: Red, Black

Fire Resistant, Installation Cable, FRNC/LSNH IEC 332-3C Individually Shielded and Jacketed Pairs

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m

26 AWG • Stranded (18x0.1) 0.5 mm TC • Each Pair Individually **Tinned Copper Spiral Braid** • Numbered FRNC/LSNH Jackets • **Overall > 90% Tinned Copper Braid**

Polyethylene Insulation • Overall Grey FRNC/LSNH Jacket with 26 AWG Tinned Copper Drain Wire

100V RMS
70°C

IEC
332-3C

0.5 mm
26 AWG
(18x0.1) TC

0.044 1.13

Individual Spiral Serve > 90% TC Braid
+ Overall Braid

Jacketed Pairs O.D.:
0.114 2.90

0.488 12.39 110 60% 17.4 57.0

0.1 0.3 0.9
1.0 0.7 2.2
4.0 1.9 6.3
10.0 3.7 12.0



0.14 mm²

																		Burning Energy:	Pulling Tension:
YE00193	1-Pair	1640	500	13.4	6.1						0.114	2.90						–	–
BE46959	1-Pair	1640	500	24.3	11.0						0.154	3.90						283 kJ/m	85 N
BE46923	2-Pair	1640	500	102.1	46.3						0.331	8.40						913 kJ/m	150 N
BE46925	4-Pair	1640	500	134.5	61.0						0.374	9.50						1271 kJ/m	250 N
BE46935	8-Pair	1640	500	245.6	111.4						0.492	12.50						2023 kJ/m	400 N
BE46936	10-Pair	1640	500	278.0	126.1						0.524	13.30						2325 kJ/m	500 N
BE46937	12-Pair	1640	500	301.6	136.8						0.559	14.20						2644 kJ/m	600 N
BE46938	16-Pair	1640	500	392.9	178.2						0.630	16.00						3292 kJ/m	750 N

Color Code: White, Blue

TC = Tinned Copper • DCR = DC resistance
† 7880A is designed to fit in 25-pin D-sub connectors used in digital console board equipment.

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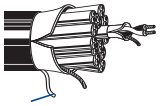
AES/EBU Digital Multi-Pair Snake Cables

SlimSnake™, Installation Cable, Halogen-Free
Individually Shielded and Jacketed Pairs

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
26 AWG • Stranded (7x0.16) 0.5 mm TC • Each Pair Individually **TC Spiral Braid** • Numbered PA Jackets • Overall > 90% TC Braid																			
Foam Polyethylene Insulation • Overall Purple Halogen-Free Jacket																			
100V RMS 70°C 							0.5 mm 26 AWG (7x0.16) TC	0.043	1.10	Individual Spiral Serve > 90% TC Braid + Overall Braid			110	60%	15.2	50.0	0.1 1.0 6.0 10.0	0.3 0.7 2.9 4.9	0.9 2.3 9.5 16.0
								Jacketed Pairs O.D.: 0.114	2.90										Pulling Tension:
0.14 mm²	**BE46273**	1-Pair	820 1640	250 500	5.7 11.2	2.6 5.1					0.110	2.80							–
	BE46202	1-Pair	820 1640	250 500	6.6 12.1	3.0 5.5					0.154	3.90							–
	BE46203	2-Pair	820 1640	250 500	42.1 84.2	19.1 38.2					0.319	8.10							150 N
	BE46204	4-Pair	820 1640	250 500	57.3 114.4	26.0 51.9					0.354	9.00							250 N
	BE46266	8-Pair	820 1640	250 500	85.8 171.5	38.9 77.8					0.406	10.30							400 N
	BE46208	10-Pair	820 1640	250 500	97.0 193.8	44.0 87.9					0.480	12.20							500 N
	BE46205	12-Pair	820 1640	250 500	124.1 248.2	56.3 112.6					0.504	12.80							600 N
	BE46207	16-Pair	820 1640	250 500	171.7 343.3	77.9 155.7					0.602	15.30							750 N
	Color Code: White, Blue																		

Beldfoil® High-Performance Cable, Low-Capacitance, Long-Runs
Individually Shielded and Jacketed Pairs

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
24 AWG • Stranded (7x32) 0.6 mm High-Conductivity (Oxygen-Free) TC • Each Pair **Beldfoil®** Shielded • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded PVC Jackets • Overall **Beldfoil®** Shield • Rip Cord																			
Datalene® Insulation • Overall Matte Black PVC Jacket with 16 AWG Tinned Copper Drain Wire																			
300V RMS 60°C  Rip Cord		NEC: CMG CEC: CMG FT4					0.61 mm 24 AWG (7x32) TC	0.068	1.73	Individual Beldfoil® + Drain Wire (24 AWG TC) + Overall Beldfoil®			110	76%	12.0	39.4	2.0 4.0 5.0 6.0 12.0 25.0	1.3 1.6 1.7 1.8 2.3 3.1	4.3 5.1 5.6 5.9 7.5 10.1
								Jacketed Pairs O.D.: 0.167	4.24										Pulling Tension:
0.22 mm²	**1803F**	4-Pair	500 1000	152 305	57.5 107.0	26.1 48.5					0.488	12.39							367 N
	1805F	8-Pair	500 1000	152 305	106.5 211.0	48.3 95.7					0.661	16.79							609 N
	1806F	12-Pair	500 1000	152 305	160.0 330.0	72.6 149.7					0.829	21.06							890 N
	1850F	16-Pair	500 1000	152 305	208.0 407.0	94.3 184.6					0.944	23.98							1174 N
	1852F	24-Pair	500 1000	152 305	321.0 644.0	145.6 292.1					1.205	30.61							1779 N
	1854F	32-Pair	1000	305	841.0	381.5					1.346	34.19							2356 N
	Color Code: Red, Black																		

TC = Tinned Copper • DCR = DC resistance

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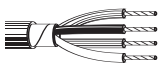
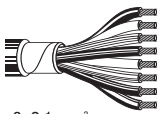
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Speaker Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Shielding Material	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD inch	Component OD mm
26 AWG • 2 CDR (Audio) Stranded (18x0.1) 0.5 mm BC **+ 3 CDR (Power)** Stranded (32x0.2) 1.2 mm BC • Conductors Cabled with Fillers																
Polyethylene Insulation • Overall Matte Black PVC Jacket																
300V RMS 60°C	**BE43908**		328 1640	100 500	37.5 187.4	17.0 85.0	Unshielded	0.461	11.7	1xAudio	1-Pair 26 AWG 0.48 mm (18x0.1) BC	Overall 90% BC Braid	PE Black Red	PVC Black	0.044	1.12
										1xPower	3 Conductors 18 AWG 1.15 mm (32x0.2) BC	Unshielded	PVC Brown Blue Green/Yellow	PVC Black	0.083	2.10
 2x0.14 mm² (Audio) 3x1.20 mm² (Power)							Pulling Tension: 200 N									

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
16 AWG • 2 Conductor • Stranded (25x0.23) 1.5 mm Bare Copper																		
PVC Insulation • Overall Matte Black PVC Jacket (Grey or Black)																		
300V RMS 60°C	**BE46382** 2 CDR		328 1640 3280	100 500 1000	15.9 79.8 159.4	7.2 36.2 72.3	1.5 mm 16 AWG (25x0.23) BC	0.098	2.50	Unshielded	0.276	7.00	12	–	CDR/CDR	35	115	Black, Red
 2x1.5 mm²																		
			1000 m put-up available in Black only. Pulling Tension: 240 N															

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
14 AWG • 4 or 8 Conductor • Stranded (104x34) 1.9 mm Bare Copper • Conductors Cabled with Fillers • Paper Wrap																		
PVC Insulation • Overall Matte Black PVC Jacket																		
300V RMS 60°C	**1810A** 4 CDR		250 500 1000	76 152 305	26.3 55.5 114.0	11.9 25.2 51.7	1.85 mm 14 AWG (104x34) BC	0.025	0.64	Unshielded	0.390	9.91	8.8	–	CDR/CDR CDR/SCR	19 57	61 187	Red, Green, White, Black
 High-Flex 4x2.1 mm²																		
			Compatible with Speakon® connectors. Pulling Tension: 889 N															
PVC Insulation • Overall Matte Black PVC Jacket																		
300V RMS 60°C	**1811A** 8 CDR		1000	305	205.0	93.0	1.85 mm 14 AWG (104x34) BC	0.025	0.64	Unshielded	0.515	13.08	8.8	–	CDR/CDR CDR/SCR	19 57	61 187	Brown, Red, Orange, Yellow, Green, White, Blue, Black
 8x2.1 mm²																		
			Compatible with Speakon® connectors. Pulling Tension: 1779 N															

BC = Bare Copper • PE = Polyethelene • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

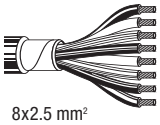
Speakon® is a Neutrik trademark.

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Speaker Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
13 AWG • 2 Conductor • Stranded (50x0.25) 2.1 mm Bare Copper																		
PVC Insulation • Overall Matte PVC Jacket (Grey or Black)																		
300V RMS 60°C	**BE46381** 2 CDR		328 1640 3280	100 500 1000	22.5 112.4 224.9	10.2 51.0 102.0	2.05 mm 13 AWG (50x0.25) BC	0.114	2.90	Unshielded	0.317	8.05	7.4	–	CDR/CDR	40	131	Black, Red
 2x2.5 mm²																		
			1000 m put-up available in Black only. Pulling Tension: 400 N															
13 AWG • 4 Conductor • Stranded (50x0.25) 2.1 mm Bare Copper • Conductors Cabled with Fillers • Paper Wrap																		
PVC Insulation • Overall Matte Black PVC Jacket																		
300V RMS 60°C	**BE46379** 4 CDR		3280	1000	399.5	181.2	2.05 mm 13 AWG (50x0.25) BC	0.114	2.90	Unshielded	0.394	10.00	7.4	–	CDR/CDR	40	131	Red, Green, White, Black
 4x2.5 mm²																		
			Pulling Tension: 200 N															
13 AWG • 8 Conductor • Stranded (300x0.1) 2.1 mm Bare Copper • Conductors Cabled with Fillers • Paper Wrap																		
PVC Insulation • Overall Matte Black PVC Jacket																		
300V RMS 60°C	**BE43907** 8 CDR		820	250	160.5	72.8	2.05 mm 13 AWG (300x0.1) BC	0.114	2.90	Unshielded	0.488	12.40	7.4	–	CDR/CDR	40	131	Red, Green, White, Black, Yellow, Purple, Brown, Blue
 8x2.5 mm²																		
			Pulling Tension: 1500 N															
11 AWG • 2 Conductor • Stranded (56x0.3) 2.6 mm Bare Copper																		
PVC Insulation • Overall Matte PVC Jacket (Grey or Black)																		
300V RMS 60°C	**BE46380** 2 CDR		328 1640 3280	100 500 1000	31.5 157.4 314.8	14.3 71.4 142.8	2.6 mm 11 AWG (56x0.3) BC	0.138	3.50	Unshielded	0.354	9.00	4.5	–	CDR/CDR	35	116	Black, Red
 2x4.0 mm²																		
			500 m put-up available in Grey only. Pulling Tension: 600 N															

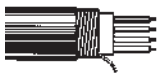
BC = Bare Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

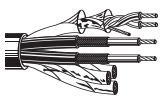
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Special Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
25 AWG • Stranded (7x33) 0.5 mm High-Conductivity Copper (Oxygen-Free) • (3) Strands TC, (4) Strands TCCS • Rayon Braid • 80% TC Braid																		
Rayon Braid, Rubber Insulation • Black EPDM Rubber Jacket																		
3000 VDC 60°C	**8410**		1640	500	18.5	8.4	0.53 mm 25 AWG (3x33, 4x33) TC, TCCS	0.154	3.91	Overall 80% TC Braid	0.245	6.22	52	–	CDR/CDR	33	108	–
																		
			Pulling Tension: 267 N															
22 AWG • Stranded (7x0.25) Tinned Copper • Dual Twisted Pairs • Aluminum-Foil • 24 AWG (7x0.20) Drain Wire • 80% Tinned Copper Braid																		
Polyethylene Insulation • Overall Matte PVC Jacket (Black or Blue)																		
300V 70°C	**BE43906**		1640 3280	500 1000	68.8 137.3	31.2 62.3	0.75 mm 22 AWG (7x0.25) TC	0.053	1.35	Overall 80% TC Braid + Drain Wire (24 AWG TC)	0.268	6.80	110	–	CDR/CDR	21.3	70	White, Red, Green, Black
																		
DMX512 0.34 mm²			1000 m put-up available in Black only.															
			22 AWG: 3105A - 1 Pair DMX512 (see Industrial section) 3107A - 2 Pair DMX512 (see Industrial section) 24 AWG: 9841, 9842, 9843 and 9844 (see Industrial section)															

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Shielding Material	Nominal OD inch	Nominal OD mm	Compo-nent	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD inch	Component OD mm
(2) Coax 20 AWG • Solid 0.8 mm Bare Copper • **Duofoil®** • **(4) Audio** 22 AWG (7x30) Tinned Copper Shielded Pair																
Gas-Injected FPE Insulation (Coax) • Polypropylene Insulation (Conductors) • Black F-R PVC Jacket																
300V RMS 75°C	**1347A**	NEC: CMR CEC: CMR FT4	500 1000	152 305	232.2 108.6	105.3 49.3	–	0.630	16.00	2x Video	2-Coax (1505A) 20 AWG 0.8 mm Solid BC	Duofoil® 100% 95% TC Braid	HDPE	PVC Black, White	0.233	5.92
										4x Audio	4 Pair 22 AWG 0.8 mm (7x30) BC	Overall Beldfoil® 100% + Drain Wire (22 AWG TC)	Polypropylene	PVC Brown, Red, Orange, Yellow	0.135	3.43 each Pair
2 Coax + 4 Pair							Pulling Tension: 947 N									

TC = Tinned Copper • TCCS = Tinned Copper-Covered Steel • BC = Bare Copper • DCR = DC resistance
SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Duofoil® see technical information page 23.13.

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RJ-45 Cables for A/V Applications

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
CatSnake™ (Mobile Cat 5e) • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Bare Copper Conductors • Rip Cord																			
Heavy-Duty Jacketed • Polyolefin Insulation • Flexible Matte Black PVC Jacket • Category 5e																			
	1304A		1000	305	27.8	12.6	0.61 mm	0.037	0.95	Bonded-Pair	0.245	6.22	1	2.4	62.3	63.3	60.8	100±12	20.0
			500	152	14.3	6.5	24 AWG			Unshielded			4	4.9	53.3	52.3	48.7	100±12	23.0
							(7x32) BC			U/UTP			8	6.9	48.8	46.1	42.7	100±12	24.5
													10	7.8	47.3	43.9	40.8	100±12	25.0
													16	9.9	44.3	39.1	36.7	100±12	25.0
													25	12.5	41.3	34.1	32.8	100±15	24.3
													31.25	14.1	39.9	31.3	30.9	100±15	23.6
													62.5	20.4	35.4	21.6	24.8	100±15	21.5
													100	26.4	32.3	17.1	20.8	100±18	20.1
													300	48.6	28.2	–	11.2	100±20	18.0
													350	53.2	27.2	–	9.9	100±22	17.0

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Video Triax Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
Triax 8 • Stranded (19x0.36) 1.0 mm • Silver-Plated Copper • 90 % Silver-Plated Copper Braid • 80 % Bare Copper Braid																			
Foam Polyethylene Insulation • Red PVC Jacket																			
70°C	**7783AF**		1000	305	75.0	34.0	0.99 mm 20 AWG (19x0.36) SPC 22.0 Ω/km* 12.0 Ω/km**	0.178	4.52	90 % SPC Braid + 80 % BC Braid 10.0 Ω/km*** 6.5 mm	0.331	8.40	75	82 %	16.5	54.0	1 10 20 40 50 60 100 300	0.2 0.7 1.0 1.4 1.6 1.7 2.3 4.2	0.6 2.2 3.2 4.6 5.1 5.6 7.5 13.8
			Return loss at 5-850 MHz: ≥ 21 dB							Spools are one piece, but length may vary 0 % to +10 % from length shown.									
Triax 11 • Solid 1.4 mm Silver-Plated Copper • 90 % Silver-Plated Copper Braid • 85 % Bare Copper Braid																			
Foam Polyethylene Insulation • Red PVC Jacket																			
70°C	**7784AS**		1000 1968	305 600	100.1 197.1	49.3 96.9	1.4mm 16 AWG Solid SPC 18.4 Ω/km* 11.0 Ω/km**	0.256	6.50	90 % SPC Braid + 85 % BC Braid 7.4 Ω/km*** 7.2 mm	0.455	11.30	75	81 %	16.8	55.0	1 10 20 40 50 60 100 300 750	0.2 0.5 0.7 1.0 1.1 1.3 1.6 3.1 4.6	0.5 1.6 2.3 3.3 3.7 4.1 5.2 10.3 15.2
			Return loss at 5-750 MHz: ≥ 23 dB							Screening attenuation at 30-1000 MHz: ≥ 75 dB Pulling Tension: 300 N Spools are one piece, but length may vary ±5 % from length shown.									
Foam Polyethylene Insulation • Red FRNC/LSNH Jacket																			
70°C	**7784ANH**		1000 1968 3280	305 600 1000	100.1 197.1 328.5	52.3 102.9 171.5	1.4mm 16 AWG Solid SPC 18.4 Ω/km* 11.0 Ω/km**	0.256	6.50	90 % SPC Braid + 85 % BC Braid 7.4 Ω/km*** 7.2 mm	0.455	11.30	75	81 %	16.8	55.0			see above
			Return loss at 5-750 MHz: ≥ 23 dB							Screening attenuation at 30-1000 MHz: ≥ 75 dB Pulling Tension: 300 N Spools are one piece, but length may vary 0 % to +10 % from length shown, 1000 m +/-5 %.									
Triax 11 • Stranded (19x0.28) 1.4 mm Silver-Plated Copper • 90 % Silver-Plated Copper Braid • 85 % Bare Copper Braid																			
Foam Polyethylene Insulation • Red PVC Jacket																			
70°C	**7784AF**		1000 1968	305 600	100.1 197.1	47.9 94.1	1.4mm 17 AWG (19x0.28) SPC 21.4 Ω/km* 14.0 Ω/km**	0.256	6.50	90 % SPC Braid + 85 % BC Braid 7.4 Ω/km*** 7.2 mm	0.433	11.00	75	82 %	16.5	54.0	1 5 10 100 180 360 750	0.2 0.3 0.5 1.7 2.4 3.5 5.2	0.5 1.1 1.6 5.6 7.9 11.5 17.1
Flexible			Return loss at 5-750 MHz: ≥ 23 dB							Screening attenuation at 30-1000 MHz: ≥ 75 dB Pulling Tension: 270 N Spools are one piece, but length may vary 0 % to +10 % from length shown.									
Triax 11 • Solid 1.4 mm Bare Copper • 85 % Bare Copper Braid • 80 % Bare Copper Braid																			
Foam Polyethylene Insulation • Red PVC Jacket																			
70°C	**7784E**		1640	500	173.5	78.7	1.4mm 16 AWG Solid BC 18.2 Ω/km* 11.2 Ω/km**	0.256	6.50	85 % BC Braid + 80 % BC Braid 7.4 Ω/km*** 7.2 mm	0.433	11.00	75	81 %	16.8	55.0	1 3 5 10 100 300 750	0.2 0.2 0.4 0.5 1.8 3.2 4.8	0.5 0.8 1.3 1.7 5.8 10.6 15.6
			Available: 7784ENH - with FRNC/LSNH Jacket 7784EPU - with PUR Jacket							Pulling Tension: 300 N Spools are one piece, but length may vary ±5 % from length shown.									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • SPC = Silver-Plated Copper

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Video Triax Cables

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
Triax 14 • Stranded (7x0.75) 2.2 mm Silver-Plated Copper • 80% Silver-Plated Copper Braid • 80% Bare Copper Braid																			
Foam Polyethylene Insulation • Red PVC Jacket																			
70°C	**7785A**		1000	305	157.9	76.2	2.21 mm	0.382	9.70	80% SPC	0.571	14.50	75	82%	16.5	54.0	1	0.1	0.4
			1640	500	259.0	124.9	12 AWG			Braid							10	0.4	1.3
			1968	600	310.8	149.9	(7x0.75) SPC			+ 80% BC							20	0.5	1.7
							12.1 Ω/km*			Braid							40	0.8	2.5
							5.7 Ω/km**			6.4 Ω/km***							50	0.9	2.8
										10.4 mm							60	0.9	3.1
																	100	1.3	4.2
			Return loss at 5-850 MHz: ≥ 21 dB							Screening attenuation at 30-1000 MHz: ≥ 75 dB							300	2.3	7.6
										Pulling Tension: 550 N							1000	4.4	14.3
										Spools are one piece, but length may vary 305 m 0% to +5%, 500 m ±10%, 600 m ±10% from length shown.									
Foam Polyethylene Insulation • Red PVC Jacket																			
70°C	**7785ANH**		1000	305	157.9	80.3	2.21 mm	0.382	9.70	80% SPC	0.571	14.50	75	82%	16.5	54.0	see above		
			1640	500	259.0	131.6	12 AWG			Braid									
			1968	600	310.8	157.9	(7x0.75) SPC			+ 80% BC									
							12.1 Ω/km*			Braid									
							5.7 Ω/km**			6.4 Ω/km***									
										10.4 mm									
			Return loss at 5-850 MHz: ≥ 21 dB							Screening attenuation at 30-1000 MHz: ≥ 75 dB									
										Pulling Tension: 550 N									
										Spools are one piece, but length may vary 305 m 0% to +5%, 500 m ±5%, 600 m 0% to +10% from length shown.									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • SPC = Silver-Plated Copper

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Standard Analog Video Cables

75 Ohm Coax

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
23 AWG • Solid 0.6 mm **Copper-Covered Steel Conductor** • 95 % Bare Copper Braid																			
Polyethylene Insulation • Black PVC Jacket																			
30V RMS 75°C UL AWM Style 1354, VW1	**8241**	NEC: CM	100 U-500 500 U-1000 1000 2000 5000	31 U-152 152 U-305 305 610 1524	4.4 19.5 18.5 38.0 40.0 80.0 200.0	2.0 8.8 8.4 17.2 18.1 36.3 90.7	0.58 mm 23 AWG Solid CCS 169.2 Ω/km* 160.7 Ω/km**	0.146	3.71	95% BC Braid 8.5 Ω/km***	0.240	6.10	75	66%	20.5	67.3	1 10 50 100 200 400 700 900 1000	0.6 1.1 2.4 3.4 4.9 7.0 9.7 11.1 12.0	2.0 3.6 7.9 11.2 16.1 23.0 31.8 36.4 39.4
0.6/3.7 RG-59/U Typ																			
U-305 m put-up also available in Red, Yellow, Green, Light Blue, White, Orange and Black.										Nominal Delay: 5.053 ns/m Pulling Tension: 276 N									
22 AWG • Stranded (7x30) 0.8 mm Bare Copper Conductor • 95 % Bare Copper Braid																			
Polyethylene Insulation • Black PVC Jacket																			
30V RMS 80°C UL AWM Style 1354	**9259**	NEC: CM CEC: CM	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	4.1 18.1 16.6 35.0 37.0	1.9 8.2 7.5 15.9 16.8	0.76 mm 22 AWG (7x30) BC 57.7 Ω/km* 49.2 Ω/km**	0.146	3.71	95% BC Braid 8.5 Ω/km***	0.241	6.12	75	78%	17.3	56.7	1 10 50 100 200 400 700 900 1000	0.3 0.9 2.1 3.0 4.5 6.6 8.9 10.1 10.9	1.0 3.0 6.9 9.8 14.8 21.7 29.2 33.1 35.8
0.7/3.7																			
For CCTV applications.										Nominal Delay: 5.053 ns/m Pulling Tension: 275 N									
20 AWG • Solid 0.8 mm Bare Copper • 98 % Tinned Copper Double Braid																			
Polyethylene Insulation • Polyethylene Jacket (Red, Yellow, Green, Light Blue, White, Orange and Black)																			
80°C	**8281**		500 1000	152 305	37.5 74.0	17.0 33.6	0.81 mm 20 AWG Solid BC 36.1 Ω/km* 32.5 Ω/km**	0.198	5.03	Double Braid 98% TC 3.6 Ω/km***	0.305	7.75	75	66%	21.0	68.9	1 3.6 10 71.5 135 270 360 540 720 750 1000	0.3 0.5 0.8 2.1 3.0 4.3 5.1 6.3 7.4 7.6 9.2	1.0 1.6 2.6 6.9 9.8 14.1 16.7 20.7 24.3 24.9 30.2
0.8/5.0 RG-59/U Type																			
152 m put-up not available in White.										Nominal Delay: 5.053 ns/m Pulling Tension: 515 N									
18 AWG • Solid 1.0 mm Bare Copper • **Duofoil®** • 60 % Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Black PVC Jacket																			
30V RMS 80°C UL AWM Style 1354	**9248**	NEC: CM CEC: CM	U-500 500 U-1000 1000 1640 3280	U-152 152 U-305 305 500 1000	16.5 15.0 32.0 33.0 55.8 108.2	7.5 6.8 14.5 15.0 25.3 49.1	1.02 mm 18 AWG Solid BC 39.4 Ω/km* 21.0 Ω/km**	0.180	4.57	Duofoil® + 60% TC Braid 18.4 Ω/km***	0.270	6.86	75	82%	16.2	53.1	1 10 50 100 200 400 700 900 1000 1500	0.3 0.7 1.5 2.0 2.8 4.0 5.3 6.1 6.5 8.3	1.0 2.3 4.9 6.6 9.2 13.1 17.4 20.0 21.3 27.2
1.0/4.6 RG-6										Nominal Delay: 4.068 ns/m Pulling Tension: 195 N									
14 AWG • Solid 1.6 mm Bare Copper • **Duofoil®** • 60 % Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Black PVC Jacket																			
80°C	**9292**		1000	305	75.0	34.0	1.63 mm 14 AWG Solid BC 18.3 Ω/km* 8.5 Ω/km**	0.280	7.11	Duofoil® + 60% TC Braid 9.8 Ω/km***	0.405	10.29	75	84%	16.1	52.8	1 10 50 100 200 400 700 900 1000	0.2 0.5 0.9 1.3 1.6 2.3 3.3 4.0 4.3	0.6 1.6 3.0 4.3 5.3 7.5 10.8 13.1 14.1
1.6/7.2 RG-11										Nominal Delay: 3.937 ns/m Pulling Tension: 435 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • CCS = Copper-Covered Steel
Duofoil® see technical information page 23.13.

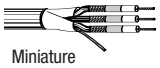
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Standard Analog Video Cables

RGB Component Video Multicore Cables

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
30 AWG • Stranded (7x38) 0.3 mm Tinned Copper • **Duofoil®** • 90 % Tinned Copper Braid (Coaxes) • Overall **Beldfoil®** Shield • TC Drain Wire																			
Foam HDPE Insulation • Overall Black PVC Jacket																			
30V RMS 60°C		NEC: CL2					0.31 mm 30 AWG (7x38) TC 413.2 Ω/km* 382.1 Ω/km**	0.056	1.42	Duofoil® + 90 % TC Braid 31.1 Ω/km***			75	78 %	17.3	56.8	1	0.8	2.6
																	5	1.5	4.9
																	10	2.2	7.2
																	30	4.0	13.1
																	50	5.4	17.7
																	100	8.2	26.9
																	1000	32.8	107.6
 Miniature 0.3/1.4																			
																			Pulling Tension:
	1520A	3 Coax	500	152	23.0	10.4					0.283	7.19							187 N
			1000	305	50.0	22.7													
	1521A	4 Coax	500	152	31.0	14.1					0.310	7.87							249 N
			1000	305	60.0	27.2													
	1522A	5 Coax	500	152	34.5	15.6					0.338	8.59							311 N
			1000	305	67.0	30.4													
	Nominal Delay: 4.265 ns/m 100 % Sweep tested. 10 MHz to 40 MHz. Color Code: see chart below																		
26 AWG • Stranded (7x34) 0.5 mm Bare Copper • **Duofoil®** • 93 % Tinned Copper Braid (Coaxes)																			
Foam HDPE Insulation • Overall Matte Black PVC Jacket																			
30V RMS 60°C							0.48 mm 26 AWG (7x34) TC 164.3 Ω/km* 136.1 Ω/km**	0.090	2.29	Duofoil® + 93 % TC Braid 28.2 Ω/km***			75	78 %	17.3	56.8	1	0.6	2.0
																	5	1.3	4.3
																	10	1.8	5.9
																	30	3.1	10.2
																	50	3.9	12.8
																	100	5.4	17.7
																	1000	15.9	52.2
 High-Flex 0.5/2.3																			
																			Pulling Tension:
	1406B	3 Coax	1000	305	79.0	35.8					0.388	9.86							458 N
	1407B	4 Coax	1000	305	100.0	45.4					0.455	11.56							614 N
	1417B	5 Coax	1000	305	110.0	49.9					0.477	12.12							765 N
	Nominal Delay: 4.265 ns/m 100 % Sweep tested. 10 MHz to 40 MHz. Color Code: see chart below																		

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper

Duofoil® see technical information page 23.13.

Color Code

Cond.	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow

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Low Loss HDTV/SDI Digital Coax

75 Ohm Coax

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
28.5 AWG • Solid 0.3 mm Bare Copper Conductor • **Duobond® foil** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black)																			
DigiTruck HDTV/SDI Digital Video 70°C	**179DT**	NEC: CM CEC: CMG FT4	500 1000	152 305	5.0 8.0	2.3 3.6	0.31 mm 28.5 AWG Solid BC 379.2 Ω/km* 350.0 Ω/km**	0.056	1.42	Duobond® + 95% TC Braid 29.2 Ω/km***	0.100	2.54	75	77%	17.5	57.4	1	1.2	3.9
																	5	1.9	6.1
																	10	2.4	7.8
																	67.5	5.9	19.3
																	71.5	6.0	19.6
																	100	6.9	22.6
																	135	7.9	25.8
																	270	10.8	35.4
0.3/1.4 RG-179																	360	12.5	41.0
																	540	15.4	50.5
																	720	17.9	58.7
																	750	18.3	60.0
																	1000	21.3	69.9
																	1500	26.3	86.3
																	2000	30.8	101.1
			Return loss at 5-1600 MHz: ≥ 23 dB 1600-3000 MHz: ≥ 21 dB							Nominal Delay: 4.331 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 66 N							2250	32.8	107.6
																	3000	38.3	125.7
																	4500	47.5	155.8
25 AWG • Stranded (19x37) 0.5 mm Bare Copper • **Duofoil®** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Brown, Red, Orange, Yellow, Blue, Violet, Grey, White and Black)																			
HDTV/SDI Digital Video 75°C	**1865A**	NEC: CMR CEC: CMG FT4	1000	305	14.0	6.4	0.53 mm 25 AWG (19x37) BC 107.6 Ω/km* 89.9 Ω/km**	0.094	2.39	Duofoil® + 95% TC Braid 17.7 Ω/km***	0.150	3.81	75	82%	16.5	54.1	1	0.5	1.5
																	5	1.1	3.6
																	71.5	3.7	12.1
																	360	8.2	26.9
																	540	10.1	33.1
																	750	12.0	39.4
																	1000	13.9	45.6
0.5/2.4 RG-59/U Type																	1500	17.0	55.8
			Nominal Delay: 4.068 ns/m 100% Sweep tested. 5 Mhz to 3 GHz.							Pulling Tension: 133 N							2250	20.8	68.2
																	3000	24.0	78.7
23 AWG • Solid 0.6 mm Bare Copper Conductor • **Duofoil®** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket																			
HDTV/SDI Digital Video 75°C	**1855A**	NEC: CMR CEC: CMG FT4	500 1000	152 305	9.0 16.0	4.1 7.3	0.58 mm 23 AWG Solid BC 90.8 Ω/km* 65.9 Ω/km**	0.102	2.59	Duofoil® + 95% TC Braid 24.9 Ω/km***	0.159	4.04	75	82%	16.3	53.5	1	0.4	1.3
																	3.6	0.8	2.6
																	10	1.2	3.9
																	71.5	3.1	10.0
																	135	3.8	12.5
																	270	5.4	17.7
																	360	6.2	20.3
0.6/2.6 RG-59/U Type																	540	7.7	25.3
																	720	9.5	31.1
																	750	9.6	31.5
																	1000	10.5	34.4
																	1500	13.0	42.6
			Return loss at 5-1600 MHz: ≥ 23 dB 1601-4500 MHz: ≥ 21 dB							Nominal Delay: 4.003 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 160 N							2000	15.1	49.5
																	2250	16.0	52.5
																	3000	18.5	60.7
			152 m put-up available in Black only.							Also available in multiples, bundled. See page 19.31 and 19.33.							4500	22.8	74.8
22 AWG • Solid 0.6 mm Tinned Copper • **Duofoil®** • 90% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Green with FRNC Jacket																			
HDTV/SDI Digital Video 75°C	**1855ENH**		328 1640	100 500	6.2 30.9	2.8 14.0	0.64 mm 22 AWG Solid TC 69.0 Ω/km* 52.0 Ω/km**	0.110	2.80	Duofoil® + 90% TC Braid 17.0 Ω/km***	0.175	4.45	75	84%	16.2	53.0	71.5	2.6	8.6
																	135	3.5	11.5
																	270	4.9	16.1
																	360	5.7	18.6
																	540	7.0	22.8
																	750	8.2	26.9
																	1500	11.8	38.7
0.6/2.8 RG-59/U Type																	3000	17.1	56.1

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper

Duofoil® and Duobond® see technical information page 23.13.

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Low Loss HDTV/SDI Digital Coax

75 Ohm Coax

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
23 AWG • Solid 0.6 mm Bare Copper • 90% Tinned Copper Double Braid + 85% Tinned Copper Braid																			
Polyethylene Insulation • Cream PVC Jacket																			
SDI Digital Video 75°C	**BE43187**		328 1640	100 500	7.5 37.5	7.0 35.0	0.58 mm 23 AWG Solid BC	0.146	3.70	Double Braid 90% TC 85% TC	0.248	6.30	75	66%	20.7	68.0	1 10 135 270 360 540 750 1000	0.3 1.1 3.8 5.5 6.3 8.0 9.8 11.3	1.1 3.5 12.5 17.9 20.8 26.2 32.0 37.0
 0.6/3.7 RG-59/U Type																			
22 AWG • Stranded (7x29) 0.8 mm Bare Compacted Copper# • 98% Tinned Copper Double Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White and Violet)																			
HDTV/SDI Digital Video 75°C	**1505F**	NEC: CM CEC: CM	1000	305	45.0	20.4	0.76 mm 22 AWG (7x29) BCC 47.8 Ω/km* 40.0 Ω/km**	0.145	3.68	Double Braid 98% TC Braid 7.8 Ω/km***	0.242	6.15	75	80%	17.0	55.7	1 3.6 5 7 10 71.5 100 135 270 360 540 720 750 1000 1500 2000 2250 3000	0.2 0.5 0.6 0.7 0.9 2.5 3.0 3.5 5.1 6.0 7.4 8.7 8.9 10.5 13.3 15.7 16.9 20.3	0.7 1.6 2.0 2.4 2.4 8.2 9.8 11.5 16.7 19.7 24.3 28.5 29.2 34.4 43.6 51.5 55.4 66.6
 0.8/3.7 RG-59/U Type																			
Return loss at 5-3000 MHz: ≥ 15 dB Nominal Delay: 4.265 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 400 N																			
20 AWG • Solid 0.8 mm Bare Copper • **Duofoil®** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black)																			
HDTV/SDI Digital Video 75°C	**1505A**	NEC: CMR CEC: CMG FT4	500 1000 5000	152 305 1524	17.5 36.0 165.4	7.9 16.3 75.0	0.81 mm 20 AWG Solid BC 45.3 Ω/km* 32.8 Ω/km**	0.145	3.68	Duofoil® 95% TC Braid 12.5 Ω/km***	0.233	5.92	75	83%	16.3	53.5	1 3.6 5 7 10 71.5 100 135 270 360 540 720 750 1000 1500 2000 2250 3000 4500	0.3 0.5 0.6 0.7 0.9 2.1 2.3 2.7 3.8 4.4 5.5 6.4 6.5 7.6 9.3 9.3 11.6 13.4 16.4	1.0 1.8 2.1 2.4 2.9 6.9 7.6 8.9 12.5 14.4 18.0 21.0 21.3 24.9 30.5 30.5 38.0 44.0 53.8
 0.8/3.7 RG-59/U Type																			
Return loss at 5-1600 MHz: ≥ 23 dB 1601-4500 MHz: ≥ 21 dB Nominal Delay: 4.003 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 209 N 152 m put-up available in Black, Red or Blue only. Also available in bundled versions. See page 19.32 and 19.34.																			
Gas-Injected Foam HDPE • Black FRNC/LSNH Jacket																			
HDTV/SDI Digital Video 75°C	**1505ANH**	IEC 332-3C IEC 332-1 IEC 61034-1 IEC 60331-11 IEC 60754-1 IEC 60754-2	1000	305	36.0	15.5	0.81 mm 20 AWG Solid BC 45.2 Ω/km* 32.8 Ω/km**	0.145	3.68	Duofoil® 95% TC Braid 12.4 Ω/km***	0.233	5.92	75	83%	16.3	53.5			see above
 0.8/3.7 RG-59/U Type																			
Return loss at 5-1600 MHz: ≥ 23 dB 1601-4500 MHz: ≥ 21 dB Nominal Delay: 4.003 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 209 N																			

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • BCC = Bare Compacted Copper
#Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductors.

Duofoil® see technical information page 23.13.

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Low Loss HDTV/SDI Digital Coax

75 Ohm Coax

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
18 AWG • Solid 1.0 mm Bare Copper • **Duofoil®** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE • PVC Jacket (Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black)																			
HDTV/SDI Digital Video 70°C	**1694A**	NEC:	500	152	20.5	9.3	1.02 mm	0.180	4.57	Duofoil®	0.275	6.99	75	82%	16.2	53.1	1	0.2	0.8
		CMR	1000	305	45.0	20.4	18 AWG			+ 95% TC							3.6	0.5	1.5
		CEC:	4500	1372	202.5	91.9	Solid BC			Braid							10	0.7	2.4
		CMG FT4					30.2 Ω/km*			9.2 Ω/km***							71.5	1.6	5.2
							21.0 Ω/km**										135	2.1	6.9
																	270	3.0	9.7
																	360	3.4	11.3
1.0/4.6 RG-6/U Type																	540	4.3	13.9
																	720	4.9	16.1
																	750	5.0	16.4
																	1000	5.9	19.3
		Return loss at	5-1600 MHz: ≥ 23 dB							Nominal Delay: 4.068 ns/m							1500	7.3	24.0
			1601-4500 MHz: ≥ 21 dB							100% Sweep tested. 5 Mhz to 4.5 GHz.							2250	9.1	30.0
										Pulling Tension: 306 N							3000	10.7	35.0
		152 m put-up available in Black only.								Also available in bundled versions, see page 19.32.							4500	13.3	43.6
Gas-Injected Foam HDPE • Black FRNC Jacket																			
HDTV/SDI Digital Video 70°C	**1694ANH**	IEC 332-3C	328	100	15.4	6.4	1.02 mm	0.180	4.57	Duofoil®	0.275	6.99	75	82%	16.2	53.1			see above
		IEC 332-1	1000	305	46.2	19.6	18 AWG			+ 95% TC									
		IEC 61034-1	1640	500	77.0	32.2	Solid BC			Braid									
		IEC 60331-11	4500	1372	207.7	88.2	30.2 Ω/km*			9.2 Ω/km***									
		IEC 60754-1					21.0 Ω/km**												
		IEC 60754-2																	
1.0/4.6 RG-6/U Type																			
		Return loss at	5-1600 MHz: ≥ 23 dB							Nominal Delay: 4.068 ns/m									
			1601-4500 MHz: ≥ 21 dB							100% Sweep tested. 5 Mhz to 4.5 GHz.									
		305 m put-up available in Black only.								Pulling Tension: 306 N									
19 AWG • Stranded (7x27) 1.0 mm Bare Copper • 99% Tinned Copper Double Braid																			
Gas-Injected Foam HDPE • PVC Jacket (Black, Red, Green, Blue, White, Orange, Yellow and Violet)																			
HDTV/SDI Digital Video 75°C 300V RMS	**1694F**	NEC:	1000	305	54.0	24.5	1.016 mm	0.225	5.72	Double Braid	0.276	7.01	75	81%	16.2	53.1	1	0.2	0.8
		CMR					19 AWG			+ 99% TC							3.6	0.5	1.5
		CEC:					(7x27) BC			Braid							10	0.7	2.4
		CMG					33.3 Ω/km*			5.5 Ω/km***							71.5	2.0	6.5
							27.8 Ω/km**										270	4.0	13.1
																	360	4.7	15.4
																	540	5.9	19.3
																	720	6.9	22.6
1.0/4.6 RG-6/U Type																	750	7.0	22.9
																	1000	8.2	26.9
																	1500	10.4	34.1
		Return loss at	5-850 MHz: ≥ 20 dB							Nominal Delay: 4.101 ns/m							2250	13.2	43.3
			850-4500 MHz: ≥ 15 dB							100% Sweep tested. 5 Mhz to 4.5 GHz.							3000	15.6	51.1
										Pulling Tension: 364 N							4500	19.8	64.9

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper

Duofoil® see technical information page 23.13.

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Low Loss HDTV/SDI Digital Coax

75 Ohm Coax

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
14 AWG • Solid 1.6 mm Bare Copper • **Duofoil®** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black)																			
HDTV/SDI Digital Video 75°C	**7731A**	NEC: CMR CEC: CMG FT4	500 1000 4000	152 305 1219	46.5 95.0 388.0	21.1 43.1 176.0	1.63 mm 14 AWG Solid BC 13.1 Ω/km* 8.2 Ω/km**	0.280	7.11	Duofoil® + 95% TC Braid 4.9 Ω/km***	0.400	10.16	75	85%	16.0	52.5	1 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000 4500	0.2 0.5 1.1 1.5 2.1 2.5 3.1 3.6 3.7 4.3 5.5 6.9 8.2 10.4	0.5 1.5 3.6 4.8 6.9 8.0 10.0 11.7 12.0 14.1 18.0 22.6 26.9 34.1
1.6/7.2 RG-11/U Type																			
		Return loss at 5-1600 MHz: ≥ 23 dB 1601-4500 MHz: ≥ 21 dB								Nominal Delay: 3.97 ns/m 100% Sweep tested. 5 Mhz to 3 GHz.									
		152 m put-up available in Black only.								Pulling Tension: 644 N									
Gas-Injected Foam HDPE • Black FRNC Jacket																			
HDTV/SDI Digital Video 70°C	**7731ANH**	IEC 332-3C IEC 332-1 IEC 61034-1 IEC 60331-11 IEC 60754-1 IEC 60754-2	1000 1640 3280 4000	305 500 1000 1219	100.0 164.0 328.0 400.0	40.4 66.3 132.5 161.5	1.63 mm 14 AWG Solid BC 13.1 Ω/km* 8.2 Ω/km**	0.280	7.11	Duofoil® + 95% TC Braid 4.9 Ω/km***	0.400	10.16	75	85%	16.0	52.5	see above		
1.6/7.2 RG-11/U Type																			
		Return loss at 5-1600 MHz: ≥ 23 dB 1601-4500 MHz: ≥ 21 dB								Nominal Delay: 3.97 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 644 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper

Duofoil® see technical information page 23.13.

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

HDTV/SDI Digital Coax

RGB Component Video Multicore Cables
VideoFlex® Snake Cables

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
25 AWG • Solid 0.5 mm Tinned Copper • **Duobond®** • 95% Tinned Interlocked Serve (Coaxes)																			
FPFA Insulation • Overall Matte Black PVC Jacket																			
HDTV/SDI Digital Video 60°C		NEC: CMR CEC: CMG					0.46 mm 25 AWG Solid TC 129.2 Ω/km* 111.5 Ω/km**	0.074	1.88	Duobond® 95% TC Serve 17.7 Ω/km***	0.114	2.90	75	80%	17.0	55.8	1	0.5	1.7
																	5	1.2	3.8
																	50	3.7	12.1
																	100	4.9	16.1
																	200	6.7	22.0
																	400	9.5	31.2
Miniature 0.5/1.9																	750	13.4	44.0
																	900	15.0	49.2
																	1000	15.8	51.8
																	3000	31.2	102.4
Nominal Delay: 4.068 ns/m • Color Code: see chart 1																			Pulling Tension:
	1277R	3 Coax	† 500	152	25.5	11.6					0.320	8.13							400 N
			† 1000	305	48.0	21.8													
	1278R	4 Coax	250	76	21.8	9.9					0.351	8.92							489 N
			† 500	152	31.5	14.3													
			† 1000	305	60.0	27.2													
	1279R	5 Coax	† 500	152	40.5	18.4					0.403	10.24							578 N
			† 1000	305	80.0	36.3													
	1280R	6 Coax	† 500	152	44.0	20.0					0.423	10.74							601 N
			† 1000	305	87.0	39.5													
23 AWG • Solid 0.6 mm Tinned Copper • **Duofoil®** • 95% Tinned Copper Braid (Coaxes)																			
Gas-Injected Foam HDPE Insulation • Overall Matte Black PVC Jacket																			
HDTV/SDI Digital Video 75°C		NEC: CMR CEC: CMG FT4					0.58 mm 23 AWG Solid TC 90.8 Ω/km* 65.9 Ω/km**	0.100	2.55	Duofoil® + 95% TC Braid 24.9 Ω/km***	0.159	4.03	75	83%	16.5	54.1	1	0.4	1.3
																	3.6	0.8	2.6
																	10	1.2	3.9
																	270	5.4	17.7
																	360	6.2	20.3
																	750	9.5	31.2
1855A Bundled 0.6/2.6																	1000	10.5	34.4
																	2500	16.9	55.4
																	3000	18.5	60.7
Nominal Delay: 4.068 ns/m • Sweep tested. 5 MHz to 3 GHz. • Color Code: see chart 2																			Pulling Tension:
	7787A	3 Coax	500	152	47.5	21.5					0.432	10.97							480 N
			1000	305	94.0	42.6													
	7788A	4 Coax	1000	305	110.0	49.9					0.481	12.22							640 N
	7789A	5 Coax	500	152	73.0	33.1					0.539	13.69							801 N
			1000	305	142.0	64.4													
	7790A	6 Coax	500	152	88.5	40.1					0.597	15.16							961 N
			1000	305	176.0	79.8													
	7791A	10 Coax	500	152	155.5	70.5					0.796	20.22							1601 N
			1000	305	304.0	137.9													
	7792A	12 Coax	500	152	178.5	81.0					0.825	20.96							1922 N
			1000	305	367.0	166.5													

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • TC = Tinned Copper • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • DCR = DC resistance • † Spools are one piece, but length may vary ±10% from length shown. • Duobond® see technical information page 23.13.

Color Code (Chart 1)

Cond.	Color	Cond.	Color	Cond.	Color
1	Red	3	Blue	5	Black
2	Green	4	Yellow	6	White

Color Code (Chart 2)

Cond.	Color	Cond.	Color	Cond.	Color	Cond.	Color	Cond.	Color	Cond.	Color
1	Red	3	Blue	5	Yellow	7	Orange	9	Purple	11	Pink
2	Green	4	White	6	Brown	8	Grey	10	Black	12	Tan

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HDTV/SDI Digital Coax

RGB Component Video Multicore Cables
VideoFlex® Snake Cables

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m

20 AWG • Solid 0.8 mm Bare Copper • **Duofoil®** • 95% Tinned Copper Braid (Coaxes)

Gas-Injected Foam HDPE Insulation • Overall Matte Black PVC Jacket

HDTV/SDI Digital Video 75°C



1505A Bundled 0.8/3.7

NEC: CMR CEC: CMG FT4

0.81 mm 20 AWG Solid BC 45.3 Ω/km* 32.8 Ω/km**

0.145 3.68 Duofoil® + 95% TC Braid 12.5 Ω/km***

0.235 5.97 75 83% 16.2 53.1

1 0.3 1.0
3 0.5 1.8
10 0.9 2.9
270 3.8 12.5
360 4.4 14.4
750 6.5 21.3
1000 7.6 24.9
2500 12.4 40.7
3000 13.8 45.3

Pulling Tension:

7794A	3 Coax	500 1000	152 305	94.5 187.0	42.9 84.8						0.631	16.03							961 N
7795A	4 Coax	500 1000	152 305	116.5 237.0	52.8 107.5						0.706	17.93							1281 N
7796A	5 Coax	500 1000	152 305	153.0 299.0	69.4 135.6						0.790	20.07							1601 N
7798A	10 Coax	500 1000	152 305	319.5 625.0	144.9 283.5						1.166	29.62							3203 N

Nominal Delay: 4.265 ns/m • Sweep tested. 5 MHz to 3 GHz.
Color Code: see chart below

18 AWG • Solid 1.0 mm Bare Copper • **Duofoil®** • 95% Tinned Copper Braid (Coaxes)

Gas-Injected Foam HDPE Insulation • Overall Matte Black PVC Jacket

HDTV/SDI Digital Video 75°C



1694A Bundled 1.0/4.6

NEC: CMR CEC: CMG FT4

1.02 mm 18 AWG Solid BC 30.8 Ω/km* 21.0 Ω/km**

0.180 4.57 Duofoil® + 95% TC Braid 9.8 Ω/km***

0.275 6.99 75 82% 16.2 53.1

1 0.2 0.8
3.6 0.5 1.5
10 0.7 2.4
270 3.0 9.7
360 3.4 11.3
750 5.0 16.4
1000 5.9 19.3
2500 9.7 31.8
3000 10.7 35.0

Pulling Tension:

7710A	3 Coax	500 1000	152 305	137.5 285.0	62.4 129.3						0.770	19.56							921 N
7711A	4 Coax	500 1000	152 305	179.5 350.0	81.4 158.8						0.900	22.86							1227 N
7712A	5 Coax	500 1000	152 305	216.5 454.0	98.2 205.9						0.970	24.64							1534 N
7713A	10 Coax	500 1000	152 305	463.0 904.0	210.0 410.1						1.386	35.20							3069 N

Nominal Delay: 4.068 ns/m • Sweep tested. 5 MHz to 3 GHz.
Color Code: see chart below

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper
Duofoil® see technical information page 23.13.

Color Code

Cond.	Color
1	Red
2	Green

Cond.	Color
3	Blue
4	White

Cond.	Color
5	Yellow
6	Brown

Cond.	Color
7	Orange
8	Grey

Cond.	Color
9	Purple
10	Black

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HDTV/SDI Digital Coax

RGB Component Video Multicore Cables
Banana Peel® Unjacketed Bundles

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
25 AWG • Solid 0.5 mm Tinned Copper • **Duobond®** • 95% Tinned Copper Interlocked Serve Braid (Coaxes) • **Banana Peel® Unjacketed,** Bonded to Central Spline																			
Foam HDPE Insulation • PVC Jackets in Colors																			
HDTV/SDI Digital Video 75°C		NEC: CMR CEC: CMG					0.46 mm 25 AWG Solid TC 129.2 Ω/km* 111.5 Ω/km**	0.074	1.88	Duobond® 95% TC Serve 17.7 Ω/km***	0.114	2.90	75	80%	17.0	55.8	5 50 100 200 400 750 900 1000	1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8	3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8
 Miniature 0.5/1.9																		Pulling Tension:	
	1281S3	3 Coax	† 500 † 1000	152 305	17.0 31.0	7.7 14.1					0.246	6.25						400 N	
	1281S4	4 Coax	† 500 † 1000	152 305	23.5 44.0	10.7 20.0					0.275	6.99						489 N	
	1281S5	5 Coax	† 250 † 500 † 1000	76 152 305	16.0 28.5 55.0	7.3 12.9 24.9					0.308	7.82						578 N	
	1281S6	6 Coax	† 500 † 1000	152 305	33.5 68.0	15.2 30.8					0.342	8.69						601 N	
100% Sweep tested. 5 MHz to 850 MHz. Patent pending.										Nominal Delay: 4.068 ns/m Color Code: see chart 1									
23 AWG • Solid 0.6 mm Bare Copper • **Duofoil®** • 95% TC Braid (Coaxes) • **Banana Peel® Unjacketed,** Bonded to Central Spline																			
Gas-Injected Foam HDPE Insulation • PVC Jacket																			
HDTV/SDI Digital Video 75°C		NEC: CMR CEC: CMG					0.58 mm 23 AWG Solid BC 90.8 Ω/km* 65.9 Ω/km**	0.102	2.59	Duofoil® + 95% TC Braid 24.9 Ω/km***	0.159	4.04	75	82%	16.3	53.5	1 3.6 10 360 750 1000 2000 2250 3000 4500	0.4 0.8 1.2 6.2 9.6 10.5 15.1 16.0 18.5 22.8	1.3 2.6 3.9 20.3 31.5 34.4 49.5 52.5 60.7 74.8
 1855A Bundled 0.6/2.6																		Pulling Tension:	
	1855S3	3 Coax	500 1000	152 305	29.5 57.1	13.4 25.9					0.343	8.71						480 N	
	1855S5	5 Coax	500 1000	152 305	51.5 102.1	23.4 46.3					0.429	10.90						800 N	
	1855S6	6 Coax	500 1000	152 305	64.1 121.1	29.1 54.9					0.477	12.12						960 N	
Return loss at			5-625 MHz: ≥ 20 dB 625-675 MHz: ≥ 15 dB 675-850 MHz: ≥ 20 dB 850-4500 MHz: ≥ 15 dB							Nominal Delay: 4.068 ns/m 100% Sweep tested. 5 MHz to 5 GHz. 152 m put-up available in Black only. Color Code: see chart 2									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper
† Spools are one piece, but length may vary ±10% from length shown. • Duofoil® and Duobond® see technical information page 23.13.

Color Code (Chart 1)

Cond.	Color	Cond.	Color	Cond.	Color
1	Red	3	Blue	5	Black
2	Green	4	Yellow	6	White

Color Code (Chart 2)

Cond.	Color	Cond.	Color	Cond.	Color
1	Red	3	Blue	5	Yellow
2	Green	4	White	6	Brown

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HDTV/SDI Digital Coax

RGB Component Video Multicore Cables
Banana Peel® Unjacketed Bundles

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
20 AWG • Solid 0.8 mm Bare Copper • **Duofoil®** • 95 % TC Braid (Coaxes) • **Banana Peel® Unjacketed,** Bonded to Central Spline																			
Foam HDPE Insulation • Individual PVC Jackets in Colors																			
HDTV/SDI Digital Video 75°C		NEC: CMR CEC: CMG					0.81 mm 20 AWG Solid BC 45.2 Ω/km* 32.8 Ω/km**	0.145	3.68	Duofoil® + 95% TC Braid 12.4 Ω/km***	0.235	5.97	75	83%	16.2	53.1	1	0.3	0.9
																	3.6	0.6	1.9
																	10	0.9	2.9
																	71.5	2.1	6.8
																	135	2.7	8.8
																	270	3.8	12.4
																	360	4.4	14.4
																	540	5.5	18.0
																	720	6.4	20.9
																	750	6.5	21.3
1505A Bundled 0.8/3.7 RG-59/U Type																	1000	7.6	24.9
																	1500	9.4	30.8
																	2500	12.4	40.6
																	3000	13.8	45.2
																	4500	16.5	54.2
																		Pulling Tension:	
	1505S3 3 Coax		500	152	55.5	25.2					0.502	12.75						960 N	
			1000	305	104.0	47.2													
	1505S5 5 Coax		500	152	95.0	43.1					0.629	15.98						1601 N	
			1000	305	185.0	83.9													
	1505S6 6 Coax		500	152	117.6	53.3					0.790	20.07						1921 N	
			1000	305	250.3	113.5													

Return loss at
5-475 MHz: ≥ 20 dB
475-525 MHz: ≥ 15 dB
525-850 MHz: ≥ 20 dB
850-4500 MHz: ≥ 15 dB

Nominal Delay: 4.003 ns/m
100% Sweep tested. 5 MHz to 4.5 GHz. Patent pending.
Color Code: see chart below

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper

Duofoil® see technical information page 23.13.

Color Code

Cond.	Color
1	Red
2	Green
3	Blue

Cond.	Color
4	White
5	Yellow
6	Brown

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BELDEN
SENDING ALL THE RIGHT SIGNALS

NEW GENERATION®



20 New Generation® Cables

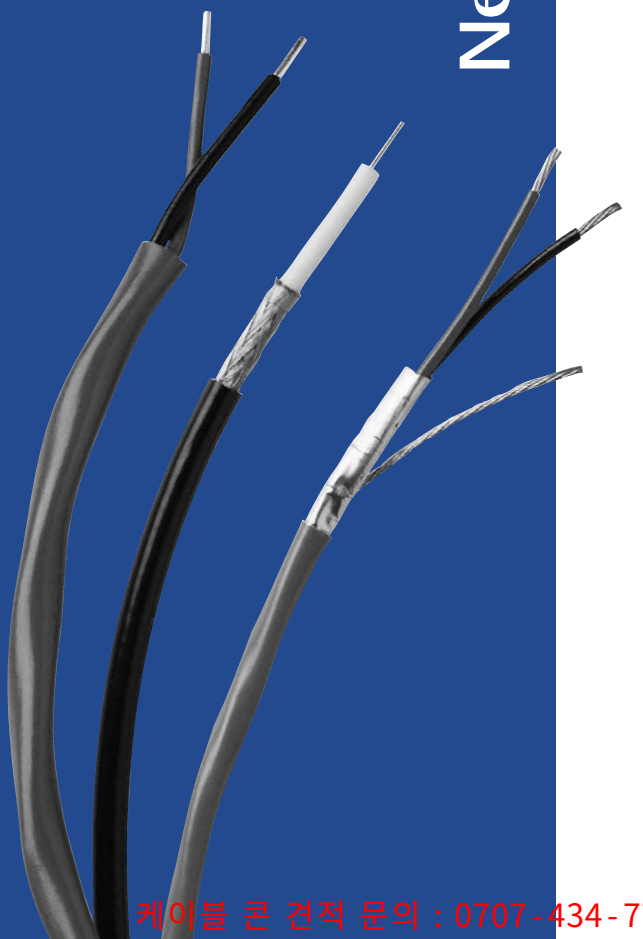


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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

NEW GENERATION®

Changing the Future

The demands of the market are constantly changing the boundaries of cable technology. Nowhere is the demand for uncompromising quality and leading-edge technology more critical than in the increasingly complex fields of security and alarm systems and audio/visual applications – that's why choice, imagination, technical expertise and exceptional quality are vital.

Belden's New Generation® range comprises low voltage electronic cables. It includes one of the largest, modern and economical/cost effective selections of reliable multi-conductor and coaxial products on the market.

Innovations include Belden's revolutionary Banana Peel® access control composite cable, Banana Peel® CCTV PTZ (Power, Tilt, Zoom) cable, and Belcoil packaging for selected cables – all designed for easier and more efficient installation.

Key Applications

- Security systems
- Intercom/PA systems
- Sound/audio systems
- Power-limited controls
- Single line telephone
- Addressable fire systems
- Data circuits
- Monitor/detection
- Control circuits
- Initiating circuits
- Notification circuits

Special Features

- **Banana Peel® Composite Cables**
  Belden's (patent pending) Banana Peel® cable technology fixes individual cables to a center spline or substrate. The individual cables can be easily peeled away eliminating the need for composite cables with an overall jacket. Banana Peel® technology is available in access control cables and CCTV PTZ camera cables.

  Benefits include:
  - Reduced installation time
  - Smaller overall diameter
  - Easier and more reliable installations – less set-up, pulling and termination time compared to individual cables
  - Quicker identification of individual components

- **Banana Peel® Access Control Cables**
  Belden Banana Peel® access control composite cables enable more cost effective security installations for access control devices such as card readers, retina scanners and hand-scanning devices. Whether the installation is in a commercial building, hospital, school, university, commercial building or government facility, Banana Peel® access control cables are designed to bring a whole new level of ease and convenience to the workplace.

  Benefits include:
  - Cost effective security
  - Ease and convenience of installation
  - Reliable day to day use

- **Banana Peel® CCTV Power Tilt Zoom (PTZ) Camera Cable**
  Many public and private sector buildings today – such as offices, hospitals, airports, amusement parks, retail establishments, educational facilities, casinos, sports stadiums, prisons and other places – all have surveillance systems to monitor visitors and employees. The purpose of these systems is clear – to protect people, to protect the facility and to protect its assets.

  CCTV cameras that can swivel and zoom in on particular areas are increasingly common. Banana Peel® PTZ cables facilitate the most effective camera installation and operation by providing all the video, power, and control cables needed in one easy-to-use composite cable.

  Benefits include:
  - High level security
  - High-performance monitoring
  - Protection of people
  - Protection of premises and contents

- **New Generation® Fire Resistant, Circuit Integrity Cables**
  When a fire occurs, there is no time for hesitation and every second counts. It is critical that fire detection, warning and alarm circuits continue to operate even under the most extreme conditions of fire, smoke and heat. There is nothing more important than the safety and evacuation of personnel and the fire alarm system must not fail.

  Belden's New Generation® range features cables specifically designed for use during severe fires where a low-smoke, zero-halogen cable is required to maintain circuit integrity. The range includes cables that meet IEC 331 requirements for circuit integrity applications.

  These cables are ideal for fire detection systems, emergency lighting, video surveillance and public address systems.

  Benefits include:
  - Fire detection and warning
  - High-performance alarm circuits
  - Continual operation during severe fires

Availability

Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a New Generation® cable in this catalog section that meets your technical requirements, see our U.S. Master Catalog or contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

Corresponding Literature

Product Bulletins

NP193: Belcoil packaging
NP199: Banana Peel® access control composite cables, jacketless
NP206: UTP composite cables for CCTV camera applications
NP216: Banana Peel® PTZ composite cables for CCTV camera applications

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Cable Finder Guide – New Generation® Coax

No. of Cond.	Material	Stranded (mm)	Solid (mm)	Nom. Imp. Ohm	CDR Dia. (mm)	Braid			Cu-foil/Braid			Duobond®/Braid			Duobond II®/Braid			Duofoil®/Braid		
						Part No.	BC	Page	Part No.	BC	Page	Part No.	AL	Page	Part No.	TC	Page	Part No.		Page
25 AWG		**0.55**	**0.45**																	
1	BC		solid	75	0.46	473945	95%	20.35												
	BC		solid	75	0.46	573945	94%	20.35												
22 AWG		**0.80**	**0.60**																	
1	BC	7x30		75	0.76	451945	95%	20.35												
	BC	7x30		75	0.76	551945	95%	20.35												
20 AWG		**0.90**	**0.80**																	
1	BC		solid	75	0.81	443945	95%	20.36												
	BC		solid	75	0.81	543945	95%	20.35												
	BC		solid	75	0.81										5439W5#	95%	20.37			
	BC		solid	75	0.80													H121A00	40% TC	20.34
18 AWG		**1.20**	**1.00**																	
1	BC		solid	75	1.02													4339B5	63% BC	20.38
	BC		solid	75	1.02													4339Q5*	60% AL +40% AL	20.38
	BC		solid	75	1.02	433945	95%	20.36												
	BC		solid	75	1.02	533945	95%	20.36												
	BC		solid	75	1.02													5339B5	60% AL	20.38
	BC		solid	75	1.02													5339Q5*	60% AL +40% AL	20.38
	BC		solid	75	1.02													5339W5#	60% AL	20.37
	BC		solid	75	1.02							5399B5	60%	20.38						
	BC		solid	75	1.00				H109A00	55%	20.34									
	BC		solid	75	1.00													H125A00	40% TC	20.34
14 AWG		**1.85**	**1.60**																	
1	BC		solid	75	1.63	413945	95%	20.36												
	BC		solid	75	1.63	513945	95%	20.36												

* Quad Shield = Duofoil Tape + 60% Aluminum Braid + Duofoil Tape + 40% Aluminum Braid
# CoreGuard®
TC = Tinned Copper • BC = Bare Copper • AL = Aluminum

Cable Finder Guide – New Generation® Multi-Conductor and Twisted Pair

No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
24 AWG 0.22 mm²		**0.60**	**0.50**							
2	none	7x32		x			5600FE	20.18		
	none	7x0.193					SEC0008	20.18		
	1	7x0.193					SEC0027	20.19		
4	none	7x0.193					SEC0009	20.18		
	2	7x0.193					SEC0028	20.19		
	1/1	7x0.193					SEC0037	20.19		
	1/1	7x0.193					SEC0042	20.19		
6	none	7x0.193					SEC0010	20.18		
	3	7x0.193					SEC0029	20.19		
	2/1	7x0.193					SEC0038	20.19		
	2/1	7x0.193					SEC0043	20.19		

AWG values are approximate where cables are made to European standards (mm²), and vice versa.
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케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair *(continued)*

No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
24 AWG 0.22 mm²		**0.60**	**0.50** *(continued)*							
8	4		solid		1500A	20.42				
	4		solid		1583E	20.42				
	none	7x0.193					SEC0011	20.18		
	4	7x0.193					SEC0030	20.19		
	3/1	7x0.193					SEC0039	20.19		
	3/1	7x0.193					SEC0044	20.19		
10	none	7x0.193					SEC0012	20.18		
	5	7x0.193					SEC0031	20.19		
	4/1	7x0.193					SEC0040	20.19		
	4/1	7x0.193					SEC0045	20.19		
12	none	7x0.193					SEC0013	20.18		
	6	7x0.193					SEC0032	20.19		
	5/1	7x0.193					SEC0041	20.19		
	5/1	7x0.193					SEC0046	20.19		
14	7	7x0.193					SEC0033	20.19		
16	none	7x0.193					SEC0014	20.18		
	8	7x0.193					SEC0034	20.19		
20	10	7x0.193					SEC0035	20.19		
22	11	7x0.193					SEC0036	20.19		
2/2	none	7x0.193					SEC0015	20.18		
	none	7x0.193					SEC0021	20.18		
4/2	none	7x0.193					SEC0016	20.18		
	none	7x0.193					SEC0022	20.18		
6/2	none	7x0.193					SEC0017	20.18		
	none	7x0.193					SEC0023	20.18		
8/2	none	7x0.193					SEC0018	20.18		
	none	7x0.193					SEC0024	20.18		
10/2	none	7x0.193					SEC0019	20.18		
	none	7x0.193					SEC0025	20.18		
12/2	none	7x0.193					SEC0020	20.18		
	none	7x0.193					SEC0026	20.18		
23 AWG 0.26 mm²		**0.65**	**0.57**							
8	4		solid		7881A	20.42				
22 AWG 0.34 mm²		**0.80**	**0.60**							
2	none	7x30		x			4500FE	20.21		
	none	7x30			4500UE	20.12				
	none	7x30					5500F1	20.28		
	none	7x30		x			5500FE	20.20		
	none	7x30			5500UE	20.11				
	none	7x30			5500UG	20.10				
3	none	7x30		x			4501FE	20.21		
	none	7x30			4501UE	20.12				
	none	7x30		x			5501FE	20.20		
	none	7x30			5501UE	20.11				
	1+1/C	7x30		x					5501GE	20.33
4	none	7x30		x			4502FE	20.21		
	none	7x30			4502UE	20.12				
	none	7x30		x			5502FE	20.20		
	none	7x30			5502UE	20.11				
	none	7x30			5502UG	20.10				
	none		solid	x			5522FL	20.50		
	none		solid	x	5522UL	20.46				

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair *(continued)*

NEW GENERATION®

No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
22 AWG 0.34 mm²		**0.80**	**0.60** *(continued)*							
4	1+2/C	7x30		x					4502GE	20.33
	1+2/C	7x30		x					5502GE	20.33
	2	7x30			5541UE	20.29				
	2	7x30		x			4541FE	20.30		
	2	7x30		x			5541FE	20.30		
5	none	7x30		x			5503FE	20.20		
	none	7x30			5503UE	20.11				
6	none	7x30		x			4504FE	20.21		
	none	7x30			4504UE	20.12				
	none	7x30		x			5504FE	20.20		
	none	7x30			5504UE	20.11				
	none		solid		5542UL	20.46				
	1+2/TP	7x30		x					5542GE	20.33
	3	7x30			5542UE	20.29				
	3	7x30		x			4542FE	20.30		
	3	7x30		x			5542FE	20.30		
8	none	7x30		x			4506FE	20.21		
	none	7x30			4506UE	20.12				
	none	7x30		x			5506FE	20.20		
	none	7x30			5506UE	20.11				
	4	7x30			5543UE	20.29				
	4	7x30		x			5543FE	20.30		
	4	7x30		x					5543PE	20.32
10	none	7x30		x			4508FE	20.21		
	none	7x30		x			5508FE	20.20		
	none	7x30			5508UE	20.11				
12	none	7x30			4509UE	20.12				
	none	7x30			5509UE	20.11				
	6	7x30		x			4545FE	20.30		
	6	7x30		x			5545FE	20.30		
18	9	7x30			5547UE	20.29				
20 AWG 0.50 mm²		**0.90**	**0.80**							
2	none	7x28		x			4400FE	20.22		
	none	7x28			4400UE	20.13				
	none	7x28					5400F1	20.28		
	none	7x28		x			5400FE	20.22		
	none	7x28			5400UE	20.13				
3	none	7x28		x			4401FE	20.22		
	1+1/C	7x28		x					5401GE	20.33
	none	7x28		x			5401FE	20.22		
	none	7x28			5401UE	20.13				
4	none	7x28			4402UE	20.13				
	none	7x28		x			4402FE	20.22		
	2	7x28		x			4441FE	20.31		
	none	7x28		x			5402FE	20.22		
	1+2/C	7x28		x					5402GE	20.33
	none	7x28			5402UE	20.13				
	2	7x28		x			5441FE	20.30		
5	none	7x28		x			4403FE	20.22		
	none	7x28		x			5403FE	20.22		
	none	7x28			5403UE	20.13				
6	3	7x28		x			5442FE	20.30		
7	none	7x28		x			5405FE	20.22		
	none	7x28			5405UE	20.13				

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair *(continued)*

No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
20 AWG 0.50 mm²		**0.90**	**0.80** *(continued)*							
8	none	7x28			5406UE	20.13				
9	none	7x28		x			5407FE	20.22		
	none	7x28			5407UE	20.13				
10	none	7x28			5408UE	20.13				
12	none	7x28			5409UE	20.13				
	6	7x28		x			4445FE	20.31		
	6	7x28		x			5445FE	20.30		
20	none	7x28			540BUE	20.13				
18 AWG 0.75 mm²		**1.20**	**1.00**							
2	none	7x26		x			4300FE	20.24		
	none	7x26			4300UE	20.15				
	none	7x26					5300F1	20.28		
	none	7x26		x			5300FE	20.23		
	none	7x26			5300U1	20.28				
	none	7x26			5300UE	20.14				
	none	7x26			5300UG	20.10				
	none		solid				5320FJ	20.52		
	none		solid	x			5320FL	20.50		
	none		solid	x			5320FN	20.54		
	none		solid		5320UJ	20.52				
	none		solid		5320UL	20.46				
	none		solid		5320UN	20.54				
	none	20x0.243					SEC0047	20.25		
3	none	7x26		x			4301FE	20.24		
	none	7x26			4301UE	20.15				
	none	7x26		x			5301FE	20.23		
	none	7x26			5301UE	20.14				
	none	20x0.243					SEC0048	20.25		
4	none	7x26		x			4302FE	20.24		
	none	7x26			4302UE	20.15				
	none	7x26		x			5302FE	20.23		
	none	7x26			5302UE	20.14				
	none		solid	x			4320FL	20.50		
	none		solid	x			4322FL	20.50		
	none		solid		4322UL	20.47				
	none		solid				5322FJ	20.52		
	none		solid	x			5322FL	20.50		
	none		solid	x			5322FN	20.54		
	none		solid		5322UL	20.46				
	none		solid		5322UN	20.54				
	1+2/C	7x26		x					5302GE	20.33
	2	7x26			4341UE	20.29				
	2	7x26			5341UE	20.29				
	2	7x26		x			4341FE	20.31		
	2	7x26		x			5341FE	20.31		
	none	20x0.243					SEC0049	20.25		
5	none	7x26		x			4303FE	20.24		
	none	7x26			4303UE	20.15				
	none	7x26		x			5303FE	20.23		
	none	7x26			5303UE	20.14				
	none	20x0.243					SEC0050	20.25		
6	none	7x26		x			4304FE	20.24		
	none	7x26			4304UE	20.15				
	none	7x26		x			5304FE	20.23		
	none	7x26			5304UE	20.14				
	none		solid		4324UL	20.47				

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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair *(continued)*

No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
18 AWG 0.75 mm²		**1.20**	**1.00** *(continued)*							
6	none		solid		5324UL	20.46				
	3	7x26			5342UE	20.29				
	3	7x26		x			4342FE	20.31		
	3	7x26		x			5342FE	20.31		
7	none	7x26		x			5305FE	20.23		
	none	7x26			5305UE	20.14				
8	none	7x26		x			4306FE	20.24		
	none	7x26			4306UE	20.15				
	none	7x26		x			5306FE	20.23		
	none	7x26			5306UE	20.14				
	none		solid		5326UL	20.46				
	4	7x26			5343UE	20.29				
	4	7x26		x			4343FE	20.31		
	4	7x26		x			5343FE	20.31		
9	none	7x26		x			4307FE	20.24		
	none	7x26		x			5307FE	20.23		
	none	7x26			5307UE	20.14				
10	none	7x26			4308UE	20.15				
	none	7x26			5308UE	20.14				
	none		solid		5328UL	20.46				
12	none	7x26			4309UE	20.15				
	none	7x26			5309UE	20.14				
	none		solid		5329UL	20.46				
	6	7x26			5345UE	20.29				
	6	7x26		x			4345FE	20.31		
	6	7x26		x			5345FE	20.31		
18	9	7x26			5347UE	20.29				
20	none	7x26			530BUE	20.14				
17 AWG 1.00 mm²		**1.20**	**1.00**							
2	none		solid	x			4K20FX*	20.56		
3	none		solid	x			4K21FX*	20.56		
4	none		solid	x			4K22FX*	20.56		
16 AWG 1.50 mm²		**1.50**	**1.30**							
2	none	19x29		x			4200FE	20.26		
	none	19x29			4200UE	20.16				
	none		solid	x			4220FL	20.50		
	none		solid		4220UL	20.48				
	none	19x29		x			5200FE	20.26		
	none	19x29			5200UE	20.15				
	none		solid				5220FJ	20.52		
	none		solid	x			5220FL	20.50		
	none		solid	x			5220FN	20.55		
	none		solid		5220UJ	20.52				
	none		solid		5220UL	20.48				
	none		solid		5220UN	20.54				
3	none	19x29		x			4201FE	20.26		
	none	19x29			4201UE	20.16				
	none	19x29		x			5201FE	20.26		
	none	19x29			5201UE	20.15				
4	none	19x29		x			4202FE	20.26		
	none	19x29			4202UE	20.16				
	none		solid		4222UL	20.48				
	none	19x29		x			5202FE	20.26		
	none	19x29			5202UE	20.15				

* Mica/Glass Fire Barrier, XL Polyolefin FROH and Aluminum/Polyester taped Screen • AWG values are approximate where cables are made to European standards (mm²), and vice versa. Where the current reaches upper limits, the varying operation conditions for installation and laying acc. to standards are to be taken into consideration.

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Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair *(continued)*

NEW GENERATION®

No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
16 AWG 1.50 mm²		**1.50**	**1.30** *(continued)*							
4	none		solid				5222FJ	20.52		
	none		solid	x			5222FL	20.50		
	none		solid	x			5222FN	20.55		
	none		solid		5222UL	20.48				
	none		solid		5222UN	20.54				
7	none	19x29			5205UE	20.15				
15 AWG 1.65 mm²			**1.40**							
2	none		solid	x			4L20FX*	20.56		
3	none		solid	x			4L21FX*	20.56		
4	none		solid	x			4L22FX*	20.56		
7	none		solid	x			4L25FX*	20.56		
14 AWG 2.50 mm²		**1.85**	**1.60**							
2	none	19x27		x			4100FE	20.27		
	none	19x27			4100UE	20.16				
	none		solid	x			4120FL	20.51		
	none		solid		4120UL	20.48				
	none	19x27		x			5100FE	20.27		
	none	19x27			5100UE	20.16				
	none		solid				5120FJ	20.53		
	none		solid	x			5120FL	20.51		
	none		solid	x			5120FN	20.55		
	none		solid		5120UL	20.48				
	none		solid		5120UN	20.54				
3	none	19x27			4101UE	20.16				
	none	19x27		x			5101FE	20.27		
	none	19x27			5101UE	20.16				
4	none	19x27			4102UE	20.16				
	none		solid		4122UL	20.48				
	none	19x27			5102UE	20.16				
	none		solid	x			5122FL	20.51		
	none		solid	x			5122FN	20.55		
	none		solid		5122UL	20.48				
13 AWG 2.63 mm²		**2.10**	**1.80**							
2	none		solid	x			4N20FX*	20.56		
3	none		solid	x			4N21FX*	20.56		
4	none		solid	x			4N22FX*	20.56		
12 AWG 4.00 mm²		**2.40**	**2.10**							
2	none	19x25		x			4000FE	20.27		
	none	19x25			4000UE	20.17				
	none		solid	x			4020FL	20.51		
	none		solid		4020UL	20.49				
	none	19x25		x			5000FE	20.27		
	none	19x25			5000UE	20.17				
	none		solid				5020FJ	20.53		
	none		solid	x			5020FL	20.51		
	none		solid	x			5020FN	20.55		
	none		solid		5020UL	20.49				
3	none	19x25			4001UE	20.17				
	none	19x25			5001UE	20.17				

* Mica/Glass Fire Barrier, XL Polyolefin FROH and Aluminum/Polyester taped Screen

AWG values are approximate where cables are made to European standards (mm²), and vice versa.
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Cable Finder Guide – New Generation® Combination

No. of Cond.	Part No.	Description: Conductor/Gage	Description: mm	Shielding	Component	Page
Combination Gages						
3	SEC0001	2 cdr - 26 AWG 1 co - 21 AWG	0.50 0.41	Unshielded Alu + 72% BC Braid	1xData 1xCoax	20.40
	SEC0003	2 cdr - 20 AWG 1 co - 26 AWG	1.00 0.41	Unshielded Alu + 72% BC Braid	1xData 1xCoax	20.40
	439945	1pr - 18 AWG 1 co - 18 AWG	1.22 1.02	Unshielded 95% BC Braid	2xData 1xCoax	20.39
	449945	1 pr - 18 AWG 1 co - 20 AWG	1.22 0.80	Unshielded 95% BC Braid	2xData 1xCoax	20.39
	539945	1 pr - 18 AWG 1 co - 18 AWG	1.22 1.02	Unshielded 95% BC Braid	2xData 1xCoax	20.39
	549945	1 pr - 18 AWG 1 co - 20 AWG	1.22 0.80	Unshielded 95% BC Braid	2xData 1xCoax	20.39
5	SEC0002	1 co - 20 AWG 2 cdr - 16 AWG 2 cdr - 26 AWG	0.81 1.50 0.50	Alu + 55% TC Braid Unshielded Unshielded	1xCoax 1xData 1xControl	20.40
	SEC0004	1 co - 26 AWG 2 cdr - 24 AWG 2 cdr - 26 AWG	0.41 0.22 0.50	Alu + 72% TC Braid Unshielded Unshielded	1xCoax 1xData 1xControl	20.40
	500PTZ	1 co - 20 AWG 1 pr - 23 AWG 2 cdr - 18 AWG	0.81 0.57 1.22	95% BC Braid Unshielded Unshielded	Video Control Power	20.44
	501PTZ	1 co - 20 AWG 1 pr - 22 AWG 2 cdr - 18 AWG	0.81 0.76 1.22	95% BC Braid Beldfoil® Unshielded	Video Control Power	20.44
	502PTZ	1 co - 20 AWG 1 pr - 18 AWG 2 cdr - 18 AWG	0.81 1.24 1.22	95% BC Braid Beldfoil® Unshielded	Video Control Power	20.44
6	5284UE	2 pr - 23 AWG 2 cdr - 16 AWG	0.60 1.47	Unshielded Unshielded	1xData 2xPower	20.41
	5284US	2 pr - 24 AWG 2 cdr - 16 AWG	0.50 1.47	Unshielded Unshielded	1xData 2xPower	20.41
8	SEC0006	2 cdr - 16 AWG 3 pr - 28 AWG	1.50 0.35	Unshielded Unshielded	Power Control	20.43
10	5288US	4 pr - 24 AWG 2 cdr - 16 AWG	0.50 1.47	Unshielded Unshielded	1xData 2xPower	20.41
13	SEC0005	1 co - 23 AWG 3 cdr - 20 AWG 9 cdr - 22 AWG	0.58 1.00 0.75	55% TC Braid Unshielded Unshielded	Coax Power Control	20.43
15	SEC0007	1 co - 21 AWG 2 cdr - 22 AWG 6 cdr - 26 AWG 3 pr - 28 AWG	0.75 0.75 0.50 0.35	80% BC Braid Unshielded Unshielded Unshielded	Coax Power Data Control	20.43
16	558AFS	4 cdr - 18 AWG 3 pr - 22 AWG 2 cdr - 22 AWG 4 cdr - 22 AWG	1.22 0.76 0.76 0.76	Overall Beldfoil® Overall Beldfoil® Overall Beldfoil® Overall Beldfoil®	Lock Power Card Reader Door Contact Rex/Spare	20.45

co = Coax • cdr = Conductor(s) • pr = Pair

Halar® is a Solvay Solexis trademark.
Teflon® is a DuPont trademark.

How to Interpret a Catalog Number

Can be used with part numbers starting with 4 or 5.

Standard Multi-Conductor, Paired, Fire Alarm, Combination Gage Cables:

5 3 0 0 U E

Location
- 5 = Non-plenum
- 6 = Plenum
- 4 = LSNH

Gage
- E = 8/8.4 mm² (solid)
- T = 10/5.3 mm² (solid)
- 0 = 12/3.3 mm² (solid)/3.6 mm² (stranded)
- 1 = 14/2.1 mm²/2.2 mm²
- 2 = 16/1.3 mm²/1.4 mm²
- 3 = 18/0.82 mm²/0.90 mm²
- 4 = 20/0.52 mm²/0.56 mm²
- 5 = 22/0.33mm²/0.36 mm²
- 6 = 24/0.21 mm²/0.23 mm²
- K = 1.0 mm²
- L = 1.5 mm²
- M = 2.0 mm²
- N = 2.5 mm²

Type of Conductor
- 0 = Stranded multi-conductor
- 2 = Solid multi-conductor
- 4 = Stranded paired conductor
- 6 = Solid paired conductor
- 8 = Composite Cable

Number of Conductors
- 0 = 2 conductors
- 1 = 3 conductors or 2 pairs
- 2 = 4 conductors or 3 pairs
- 3 = 5 conductors or 4 pairs
- 4 = 6 conductors
- 5 = 7 conductors or 6 pairs
- 6 = 8 conductors
- 7 = 9 conductors or 9 pairs
- 8 = 10 conductors or 12 pairs
- 9 = 12 conductors
- A = 16 conductors
- B = 20 conductors

Shielding
- C = Foil plus 85% braid, overall (m/c, pairs)
- F = Overall foil w/drain (m/c or multipair)
- G = One foil shielded pair w/drain (m/c, pair(s) combo)
- H = SPOS – shielded pairs and O/A foil shield
- P = Individual shielded pairs with drain (multipairs)
- U = Unshielded (m/c, pairs)

Application
- 1 = Water-blocked multi-conductor
- A = FEP Insulation/Teflon® jacket, plenum cable
- C = Halar® jacket, plenum cable
- E = Power-limited communication cable, high-capacitance
- G = Non-riser rated, may be un-cabled
- J = Power-limited fire protective, mid-capacitance
- K = Fire Alarm, Halar®/Flamarrest®, mid-capacitance
- L = Power-limited fire protective, high-capacitance
- N = PVC/Nylon Insulation, NPLF rated
- P = High Strand Audio
- Q = Residential Audio
- S = Spline
- X = Circuit Integrity, IEC 331

케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security Multi-Conductor Cables

Residential, Light Commercial and Institutional Applications

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Numbered and Color Coded • Conductors may not be Cabled													
Polypropylene Insulation • PVC Jacket (Beige, Brown, Orange, Yellow, Green, Blue, Violet, Grey and Natural)													
300V 75°C		NEC: CM CEC: CM FT1					0.76 mm 22 AWG (7x30) BC	0.045	1.14	Unshielded			
													
	5500UG	2 CDR	C-500 U-500 C-1000 U-1000	C-152 U-152 C-305 U-305	3.5 5.1 7.1 9.0	1.6 2.3 3.2 4.1					0.114	2.90	Black, Red
	U-305 m put-up available in Brown, Grey or Natural only.												
	5502UG	4 CDR	U-500 U-1000	U-152 U-305	7.5 14.1	3.4 6.4					0.131	3.33	Black, Red, White, Green
	U-152 m put-up available in Grey or White only.												
18 AWG • Stranded (7x26) 1.2 mm Bare Copper • Numbered and Color Coded • Conductors may not be Cabled													
Polypropylene Insulation • PVC Jacket (Beige, Brown, Orange, Yellow, Green, Blue, Violet, Grey and Natural)													
300V 75°C	**5300UG**	NEC: CM CEC: CM FT1	C-500 U-500 U-1000	C-152 U-152 U-305	7.5 8.6 16.1	3.4 3.9 7.3	1.22 mm 18 AWG (7x26) BC	0.063	1.60	Unshielded	0.148	3.76	Black, Red
													
2 CDR	Available in Grey, Black or Natural only.												

BC = Bare Copper • DCR = DC resistance

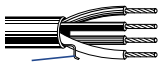
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMF FT4					0.76 mm 22 AWG (7x30) BC	0.040	1.01	Unshielded			see chart below
 Rip Cord													
	5500UE	2 CDR	C-500	C-152	4.0	1.8					0.128	3.25	
			U-500	U-152	5.5	2.5							
			500	152	5.5	2.5							
			C-1000	C-305	7.9	3.6							
			U-1000	U-305	9.9	4.5							
			1000	305	9.0	4.1							
	5501UE	3 CDR	U-1000	U-305	13.0	5.9					0.135	3.43	
			1000	305	13.0	5.9							
	5502UE	4 CDR	C-500	C-152	7.5	3.4					0.148	3.76	
			U-500	U-152	9.0	4.1							
			U-1000	U-305	16.1	7.3							
			1000	305	16.1	7.3							
	Also available in White.												
	5503UE	5 CDR	U-1000	U-305	20.1	9.1					0.162	4.11	
			1000	305	20.1	9.1							
	5504UE	6 CDR	C-500	C-152	12.6	5.7					0.177	4.50	
			U-500	U-152	14.1	6.4							
			500	152	13.4	6.1							
			U-1000	U-305	27.1	12.3							
			1000	305	27.1	12.3							
	Also available in White.												
	5506UE	8 CDR	U-1000	U-305	29.1	13.2					0.192	4.88	
			1000	305	30.0	13.6							
	5508UE	10 CDR	U-1000	U-152	35.9	16.3					0.226	5.74	
			1000	305	41.0	18.6							
	5509UE	12 CDR	U-500	U-152	21.6	9.8					0.233	5.92	
			U-1000	U-305	42.1	19.1							
			1000	305	47.2	21.4							

BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue

Cond. No.	Color
7	Orange
8	Yellow
9	Purple
10	Grey
11	Pink
12	Tan

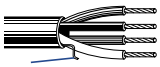
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Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Numbered and Color Coded • Rip Cord													
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					0.76 mm 22 AWG (7x30) BC	0.049	1.25	Unshielded			see chart below
 Rip Cord													
	4500UE	2 CDR	328 1640	100 500	3.1 15.4	1.4 7.0					0.130	3.30	
	4501UE	3 CDR	328 1640	100 500	3.1 15.4	1.4 7.0					0.130	3.30	
	4502UE	4 CDR	328 1640	100 500	5.3 26.0	2.4 11.8					0.154	3.90	
	4504UE	6 CDR	328 1640	100 500	7.3 36.2	3.3 16.4					0.177	4.50	
	4506UE	8 CDR	328 1640	100 500	8.8 43.7	4.0 19.8					0.193	4.90	
	4509UE	12 CDR	328 1640	100 500	13.4 66.8	6.1 30.3					0.232	5.90	

BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue

Cond. No.	Color
7	Orange
8	Yellow
9	Purple
10	Grey
11	Pink
12	Tan

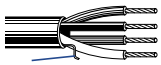
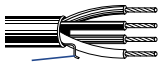
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케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
20 AWG • Stranded (7x28) 1.0 mm Bare Copper • Numbered and Color Coded PVC Jackets • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMF FT4					0.96 mm 20 AWG (7x28) BC	0.048	1.21	Unshielded			see chart below
 Rip Cord													
	5400UE	2 CDR	C-500 U-1000 1000	C-152 U-305 305	6.0 13.0 13.0	2.7 5.9 5.9					0.142	3.61	
	5401UE	3 CDR	500 U-1000 1000	152 U-305 305	9.0 18.1 18.1	4.1 8.2 8.2					0.150	3.81	
	5402UE	4 CDR	C-500 U-1000 1000	C-152 U-305 305	10.6 23.1 23.1	4.8 10.5 10.5					0.165	4.19	
	5403UE	5 CDR	U-1000 1000	U-305 305	26.9 28.0	12.2 12.7					0.181	4.60	
	5405UE	7 CDR	500 1000	152 305	19.0 40.1	8.6 18.2					0.198	5.03	
	5406UE	8 CDR	U-1000 1000	U-305 305	41.0 43.0	18.6 19.5					0.215	5.46	
	5407UE	9 CDR	1000	305	48.1	21.8					0.233	5.92	
	5408UE	10 CDR	1000	305	53.1	24.1					0.254	6.45	
	5409UE	12 CDR	1000	305	61.9	28.1					0.262	6.65	
	540BUE	20 CDR	1000	305	110.0	49.9					0.347	8.81	
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 75°C		IEC 60754-2					0.96 mm 20 AWG (7x28) BC	0.057	1.45	Unshielded			see chart below
 Rip Cord													
	4400UE	2 CDR	328 1640	100 500	3.7 18.7	1.7 8.5					0.142	3.60	
	4402UE	4 CDR	328 1640	100 500	6.4 31.7	2.9 14.4					0.165	4.20	

BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Grey

Cond. No.	Color
11	Pink
12	Tan
13	White/Black
14	White/Red
15	White/Green
16	White/Orange
17	White/Blue
18	White/Brown
19	White/Yellow
20	White/Purple

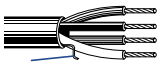
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Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Stranded (7x26) 1.2 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					1.22 mm 18 AWG (7x26) BC	0.058	1.47	Unshielded			see chart below
 Rip Cord													
	5300UE	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	8.6 9.5 9.5 17.0 18.1	3.9 4.3 4.3 7.7 8.2					0.161	4.09	
	Also available in White or Black.												
	5301UE	3 CDR	500 U-1000 1000	152 U-305 305	12.6 24.9 24.9	5.7 11.3 11.3					0.171	4.34	
	5302UE	4 CDR	C-250 U-500 500 U-1000 1000	C-76 U-152 152 U-305 305	7.5 16.5 16.1 32.0 32.0	3.4 7.5 7.3 14.5 14.5					0.188	4.78	
	5303UE	5 CDR	500 U-1000 1000	152 U-305 305	20.5 39.0 39.0	9.3 17.7 17.7					0.207	5.26	
	5304UE	6 CDR	500 U-1000 1000	152 U-305 305	26.0 51.1 52.0	11.8 23.2 23.6					0.226	5.74	
	5305UE	7 CDR	U-1000 1000	U-305 305	51.1 52.0	23.2 23.6					0.226	5.74	
	5306UE	8 CDR	500 1000	152 305	30.0 59.1	13.6 26.8					0.248	6.30	
	5307UE	9 CDR	1000	305	66.1	30.0					0.269	6.83	
	5308UE	10 CDR	500 1000	152 305	38.6 74.1	17.5 33.6					0.294	7.47	
	5309UE	12 CDR	500 1000	152 305	47.6 90.2	21.6 40.9					0.314	7.98	
	530BUE	20 CDR	1000	305	152.1	69.0					0.400	10.16	

BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Grey

Cond. No.	Color
11	Pink
12	Tan
13	White/Black
14	White/Red
15	White/Green
16	White/Orange
17	White/Blue
18	White/Brown
19	White/Yellow
20	White/Purple

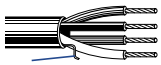
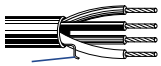
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Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Stranded (7x26) 1.2 mm Bare Copper • Numbered and Color Coded • Rip Cord													
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					1.22 mm 18 AWG (7x26) BC	0.068	1.72	Unshielded			see chart below
 Rip Cord													
	4300UE	2 CDR	328 1640	100 500	6.0 29.3	2.7 13.3					0.161	4.10	
	4301UE	3 CDR	328 1640	100 500	7.7 38.4	3.5 17.4					0.161	4.10	
	4302UE	4 CDR	328 1640	100 500	10.1 50.7	4.6 23.0					0.189	4.80	
	4303UE	5 CDR	328 1640	100 500	12.1 60.4	5.5 27.4					0.209	5.30	
	4304UE	6 CDR	328 1640	100 500	15.0 74.5	6.8 33.8					0.224	5.70	
	4306UE	8 CDR	328 1640	100 500	18.5 92.6	8.4 42.0					0.248	6.30	
	4308UE	10 CDR	328 1640	100 500	22.9 114.9	10.4 52.1					0.295	7.50	
	4309UE	12 CDR	328 1640	100 500	27.1 135.8	12.3 61.6					0.315	8.00	
16 AWG • Stranded (19x29) 1.5 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					1.47 mm 16 AWG (19x29) BC	0.068	1.72	Unshielded			see chart below
 Rip Cord													
	5200UE	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.5 13.0 12.6 24.0 25.1	5.2 5.9 5.7 10.9 11.4					0.184	4.67	
	5201UE	3 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	18.5 18.1 35.1 38.1	8.4 8.2 15.9 17.3					0.196	4.98	
	5202UE	4 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	23.6 22.9 45.0 47.0	10.7 10.4 20.4 21.3					0.216	5.49	
	5205UE	7 CDR	1000	305	77.2	35.0					0.261	6.63	

BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green

Cond. No.	Color
5	Brown
6	Blue
7	Orange
8	Yellow

Cond. No.	Color
9	Purple
10	Grey
11	Pink
12	Tan

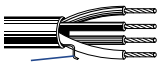
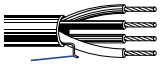
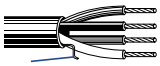
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
16 AWG • Stranded (19x29) 1.5 mm Bare Copper • Numbered and Color Coded • Rip Cord													
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					1.47 mm 16 AWG (19x29) BC	0.077	1.95	Unshielded			
 Rip Cord													
	4200UE	2 CDR	328 1640	100 500	7.5 37.3	3.4 16.9					0.185	4.70	Black, White
	4201UE	3 CDR	328 1640	100 500	9.9 49.8	4.5 22.6					0.197	5.00	Black, White, Red
	4202UE	4 CDR	328 1640	100 500	13.2 65.7	6.0 29.8					0.217	5.50	Black, White, Red, Green
14 AWG • Stranded (19x27) 1.9 mm Bare Copper • Numbered and Color Coded • Rip Cord													
Polyethylene Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR FPLR CL3R					1.85 mm 14 AWG (19x27) BC	0.087	2.21	Unshielded			
 Rip Cord													
	5100UE	2 CDR	500 U-1000 1000	152 U-305 305	20.1 37.9 40.1	9.1 17.2 18.2					0.234	5.94	Black, White
	Also available in Red for fire alarm (FPLR).												
	5101UE	3 CDR	1000	305	56.2	25.5					0.249	6.32	Black, White, Red
	5102UE	4 CDR	500 1000	152 305	38.6 73.2	17.5 33.2					0.276	7.01	Black, White, Red, Green
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					1.85 mm 14 AWG (19x27) BC	0.099	2.52	Unshielded			
 Rip Cord													
	4100UE	2 CDR	328 1640	100 500	11.5 57.8	5.2 26.2					0.232	5.90	Black, White
	4101UE	3 CDR	328 1640	100 500	15.4 76.9	7.0 34.9					0.248	6.30	Black, White, Red
	4102UE	4 CDR	328 1640	100 500	20.5 103.0	9.3 46.7					0.276	7.00	Black, White, Red, Green

BC = Bare Copper • DCR = DC resistance

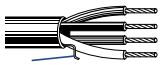
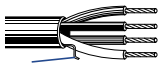
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Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
12 AWG • Stranded (19x25) 2.4 mm Bare Copper • Numbered and Color Coded • Rip Cord													
Polyethylene Insulation • Grey PVC Jacket													
300V 75°C		NEC: CL3R					2.36 mm 12 AWG (19x25) BC	0.107	2.72	Unshielded			
 Rip Cord													
	5000UE	2 CDR	500 1000	152 305	29.1 57.1	13.2 25.9					0.268	6.81	Black, White
	Also available in Red for fire alarm (FPLR).												
	5001UE	3 CDR	1000	305	82.2	37.3					0.286	7.26	Black, White, Red
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 75°C		IEC 60754-2					2.36 mm 12 AWG (19x25) BC	0.118	3.00	Unshielded			
 Rip Cord													
	4000UE	2 CDR	328 1640	100 500	16.5 83.1	7.5 37.7					0.268	6.80	Black, White
	4001UE	3 CDR	1640	500	375.2	170.2					0.287	7.30	Black, White, Red

BC = Bare Copper • DCR = DC resistance

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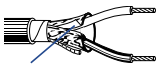
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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
24 AWG • Stranded (7x32) 0.6 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C	**5600FE**	NEC: CMR CEC: CMG FT4	U-1000 1000	U-305 305	11.0 9.9	5.0 4.5	0.61 mm 24 AWG (7x32) BC	0.034	0.86	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.120	3.05	see chart 12 (Tech Info Sectoion)



Shorting Fold

2 CDR

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
24 AWG • Stranded (7x0.193) 0.6 mm Bare Copper • Overall Alufoil • Color Coded													
PVC Insulation • White Flame-Resistant PVC Jacket (Color Code: see chart 11, Tech Info Section)													
500V 70°C										Overall Alufoil			- Alarm systems - Antitrust systems - Smoke survey - Fire survey - Industrial checks



LiY (St) Y

SEC0008	2	328	100	39.7	18.0	(7x0.193) BC	24	0.22		0.150	3.80	
SEC0009	4	328	100	61.7	28.0	(7x0.193) BC	24	0.22		0.165	4.20	
SEC0010	6	328	100	75.0	34.0	(7x0.193) BC	24	0.22		0.181	4.60	
SEC0011	8	328	100	97.0	44.0	(7x0.193) BC	24	0.22		0.209	5.30	
SEC0012	10	328	100	114.6	52.0	(7x0.193) BC	24	0.22		0.228	5.80	
SEC0013	12	328	100	136.7	62.0	(7x0.193) BC	24	0.22		0.240	6.10	
SEC0014	16	328	100	160.9	73.0	(7x0.193) BC	24	0.22		0.276	7.00	
SEC0015	2/2	328	100	83.8	38.0	(7x0.193) BC	24	0.22 + 0.50		0.193	4.90	
SEC0016	4/2	328	100	97.0	44.0	(7x0.193) BC	24	0.22 + 0.50		0.205	5.20	
SEC0017	6/2	328	100	114.6	52.0	(7x0.193) BC	24	0.22 + 0.50		0.232	5.90	
SEC0018	8/2	328	100	141.1	64.0	(7x0.193) BC	24	0.22 + 0.50		0.256	6.50	
SEC0019	10/2	328	100	158.7	72.0	(7x0.193) BC	24	0.22 + 0.50		0.264	6.70	
SEC0020	12/2	328	100	172.0	78.0	(7x0.193) BC	24	0.22 + 0.50		0.272	6.90	
SEC0021	2/2	328	100	97.0	44.0	(7x0.193) BC	24	0.22 + 0.75		0.205	5.20	
SEC0022	4/2	328	100	114.6	52.0	(7x0.193) BC	24	0.22 + 0.75		0.220	5.60	
SEC0023	6/2	328	100	132.3	60.0	(7x0.193) BC	24	0.22 + 0.75		0.244	6.20	
SEC0024	8/2	328	100	143.3	65.0	(7x0.193) BC	24	0.22 + 0.75		0.252	6.40	
SEC0025	10/2	328	100	158.7	72.0	(7x0.193) BC	24	0.22 + 0.75		0.264	6.70	
SEC0026	12/2	328	100	174.2	79.0	(7x0.193) BC	24	0.22 + 0.75		0.283	7.20	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	No. of Pairs	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application

24 AWG • Stranded (7x0.193) 0.6 mm Bare Copper • Mylar® Tape • Overall Alufoil • Color Coded

Thermoplastic M9 Insulation • White FRNC/LSNH Jacket (Color Code: see chart below)

60/90V
70°C

Overall
Alufoil

- Cables for anti-theft installations
- Cables for detection of smokes and fires
- To be used in public areas
(like banks, hospitals, big stores, hotels, theaters)



LiH (St) H

SEC0027	1	328	100	41.9	19.0	(7x0.193) BC	24	0.22		0.157	4.00	
SEC0028	2	328	100	66.1	30.0	(7x0.193) BC	24	0.22		0.217	5.50	
SEC0029	3	328	100	83.8	38.0	(7x0.193) BC	24	0.22		0.228	5.80	
SEC0030	4	328	100	105.8	48.0	(7x0.193) BC	24	0.22		0.260	6.60	
SEC0031	5	328	100	132.3	60.0	(7x0.193) BC	24	0.22		0.295	7.50	
SEC0032	6	328	100	149.9	68.0	(7x0.193) BC	24	0.22		0.307	7.80	
SEC0033	7	328	100	169.8	77.0	(7x0.193) BC	24	0.22		0.319	8.10	
SEC0034	8	328	100	194.0	88.0	(7x0.193) BC	24	0.22		0.362	9.20	
SEC0035	10	328	100	231.5	105.0	(7x0.193) BC	24	0.22		0.382	9.70	
SEC0036	11	328	100	269.0	122.0	(7x0.193) BC	24	0.22		0.406	10.30	
SEC0037	1/1	328	100	158.7	72.0	(7x0.193) BC	24	0.22 + 0.50		0.264	6.70	
SEC0038	2/1	328	100	172.0	78.0	(7x0.193) BC	24	0.22 + 0.50		0.272	6.90	
SEC0039	3/1	328	100	97.0	44.0	(7x0.193) BC	24	0.22 + 0.50		0.205	5.20	
SEC0040	4/1	328	100	114.6	52.0	(7x0.193) BC	24	0.22 + 0.50		0.220	5.60	
SEC0041	5/1	328	100	132.3	60.0	(7x0.193) BC	24	0.22 + 0.50		0.244	6.20	
SEC0042	1/1	328	100	97.0	44.0	(7x0.193) BC	24	0.22 + 0.75		0.260	6.60	
SEC0043	2/1	328	100	119.0	54.0	(7x0.193) BC	24	0.22 + 0.75		0.283	7.20	
SEC0044	3/1	328	100	145.5	66.0	(7x0.193) BC	24	0.22 + 0.75		0.307	7.80	
SEC0045	4/1	328	100	158.7	72.0	(7x0.193) BC	24	0.22 + 0.75		0.323	8.20	
SEC0046	5/1	328	100	172.0	78.0	(7x0.193) BC	24	0.22 + 0.75		0.331	8.40	

BC = Bare Copper • DCR = DC resistance

Mylar® is a DuPont trademark.

Color Code

Pair No.	Color
1	Red, Black
2	White/Blue, Blue
3	White/Orange, Orange
4	White/Green, Green
5	White/Brown, Brown
6	White/Grey, Grey
7	Red/Blue, Blue
8	Red/Orange, Orange
9	Red/Green, Green
10	Red/Brown, Brown
11	Red/Grey, Grey

Pair No.	Color
12	Black/Blue, Blue
13	Black/Orange, Orange
14	Black/Green, Green
15	Black/Brown, Brown
16	Black/Grey, Grey
17	Violet/Blue, Blue
18	Violet/Orange, Orange
19	Violet/Green, Green
20	Violet/Brown, Brown
21	Violet/Grey, Grey

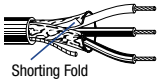
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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
22 AWG • Stranded (7x30) 0.8 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					0.76 mm 22 AWG (7x30) BC	0.040	1.01	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
 Shorting Fold													
	5500FE	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	5.5 6.6 6.6 11.9 11.9	2.5 3.0 3.0 5.4 5.4					0.130	3.30	
	5501FE	3 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	7.1 7.9 7.5 15.0 15.0	3.2 3.6 3.4 6.8 6.8					0.138	3.51	
	5502FE	4 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	8.6 9.5 9.5 18.1 18.1	3.9 4.3 4.3 8.2 8.2					0.152	3.86	
	5503FE	5 CDR	1000	305	22.0	10.0					0.165	4.19	
	5504FE	6 CDR	C-500 U-500 U-1000 1000	C-152 U-152 U-305 305	13.4 15.0 29.1 29.1	6.1 6.8 13.2 13.2					0.179	4.55	
	5506FE	8 CDR	U-500 U-1000 1000	U-152 U-305 305	16.5 32.0 32.0	7.5 14.5 14.5					0.196	4.98	
	5508FE	10 CDR	U-500 U-1000 1000	U-152 U-305 305	19.6 37.9 44.1	8.9 17.2 20.0					0.230	5.84	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown

Color Code

Cond. No.	Color
6	Blue
7	Orange
8	Yellow
9	Purple
10	Grey

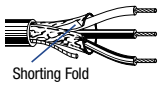
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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded													
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					0.76 mm 22 AWG (7x30) BC	0.049	1.25	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
 Shorting Fold													
	4500FE	2 CDR	328 1640	100 500	4.0 19.6	1.8 8.9					0.130	3.30	
	4501FE	3 CDR	328 1640	100 500	4.6 23.1	2.1 10.5					0.138	3.50	
	4502FE	4 CDR	328 1640	100 500	6.0 29.3	2.7 13.3					0.154	3.90	
	4504FE	6 CDR	328 1640	100 500	7.7 38.6	3.5 17.5					0.181	4.60	
	4506FE	8 CDR	328 1640	100 500	9.7 48.7	4.4 22.1					0.197	5.00	
	4508FE	10 CDR	U-500 1000	U-152 305	10.8 53.6	4.9 24.3					0.197	5.00	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Grey

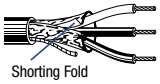
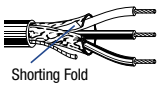
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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
20 AWG • Stranded (7x28) 1.0 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C  Shorting Fold		NEC: CMR CEC: CMG FT4					0.96 mm 20 AWG (7x28) BC	0.048	1.21	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
	5400FE	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	7.9 9.0 8.6 15.9 15.9	3.6 4.1 3.9 7.2 7.2					0.145	3.68	
	5401FE	3 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	11.0 10.6 20.9 20.9	5.0 4.8 9.5 9.5					0.153	3.89	
	5402FE	4 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.9 12.6 13.0 24.9 26.0	5.4 5.7 5.9 11.3 11.8					0.168	4.27	
	5403FE	5 CDR	U-1000 1000	U-305 305	30.0 30.0	13.6 13.6					0.184	4.67	
	5405FE	7 CDR	U-1000 1000	U-305 305	39.0 40.1	17.7 18.2					0.201	5.11	
	5407FE	9 CDR	1000	305	51.1	23.2					0.236	5.99	
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C  Shorting Fold		IEC 60754-2					0.96 mm 20 AWG (7x28) BC	0.057	1.45	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
	4400FE	2 CDR	328 1640	100 500	4.6 23.6	2.1 10.7					0.146	3.70	
	4401FE	3 CDR	328 1640	100 500	6.0 30.0	2.7 13.6					0.154	3.90	
	4402FE	4 CDR	328 1640	100 500	7.5 37.9	3.4 17.2					0.169	4.30	
	4403FE	5 CDR	328 1640	100 500	4.6 23.6	2.1 10.7					0.185	4.70	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown

Color Code

Cond. No.	Color
6	Blue
7	Orange
8	Yellow
9	Purple

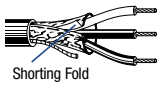
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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Stranded (7x26) 1.2 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					1.22 mm 18 AWG (7x26) BC	0.058	1.47	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
 Shorting Fold													
	5300FE	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.0 12.1 12.1 22.9 22.9	5.0 5.5 5.5 10.4 10.4					0.165	4.19	
	5301FE	3 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	15.4 15.0 30.0 30.0	7.0 6.8 13.6 13.6					0.175	4.45	
	5302FE	4 CDR	C-250 U-500 500 U-1000 1000	C-76 U-152 152 U-305 305	8.8 19.0 20.5 35.9 37.0	4.0 8.6 9.3 16.3 16.8					0.192	4.88	
	5303FE	5 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	22.5 22.5 43.0 45.2	10.2 10.2 19.5 20.5					0.211	5.36	
	5304FE	6 CDR	U-500 500 1000	U-152 152 305	28.4 26.0 57.1	12.9 11.8 25.9					0.230	5.84	
	5305FE	7 CDR	1000	305	57.1	25.9					0.230	5.84	
	5306FE	8 CDR	500 1000	152 305	32.0 64.2	14.5 29.1					0.270	6.86	
	Also available in Natural.												
	5307FE	9 CDR	1000	305	71.2	32.3					0.272	6.91	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple

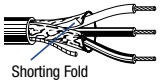
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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Stranded (7x26) 1.2 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded													
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					1.22 mm 18 AWG (7x26) BC	0.068	1.72	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
 Shorting Fold													
	4300FE	2 CDR	328 1640	100 500	7.1 35.5	3.2 16.1					0.165	4.20	
	4301FE	3 CDR	328 1640	100 500	9.3 45.9	4.2 20.8					0.177	4.50	
	4302FE	4 CDR	328 1640	100 500	11.7 58.2	5.3 26.4					0.193	4.90	
	4303FE	5 CDR	328 1640	100 500	12.8 63.7	5.8 28.9					0.193	4.90	
	4304FE	6 CDR	328 1640	100 500	16.5 82.7	7.5 37.5					0.228	5.80	
	4306FE	8 CDR	328 1640	100 500	20.5 102.7	9.3 46.6					0.272	6.90	
	4307FE	9 CDR	328 1640	100 500	22.0 110.2	10.0 50.0					0.283	7.20	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple

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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
18 AWG • Stranded (32x0.20) 1.2 mm Bare Copper • Overall Alufoil • Color Coded													
PVC Insulation • White Flame-Resistant PVC Jacket (Color Code: see chart 11, Tech Info Section)													
500V										Overall Alufoil			- Alarm systems - Smoke survey - Fire survey - Industrial checks
													
LiY (St) Y													
	SEC0047	2	328	100	110.2	50.0	(20x0.243) BC	17	1.00		0.220	5.60	
	SEC0048	3	328	100	132.3	60.0	(20x0.243) BC	17	1.00		0.256	6.50	
	SEC0049	4	328	100	187.4	85.0	(20x0.243) BC	17	1.00		0.276	7.00	
	SEC0050	5	328	100	220.5	100.0	(20x0.243) BC	17	1.00		0.319	8.10	

BC = Bare Copper • DCR = DC resistance

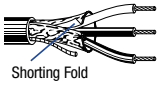
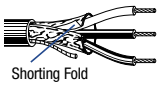
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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
16 AWG • Stranded (19x29) 1.5 mm Bare Copper • **Beldfoil®** Shield • 18 AWG Tinned Copper Drain Wire • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					1.47 mm 16 AWG (19x29) BC	0.068	1.72	Overall Beldfoil® + Drain Wire (18 AWG TC)			
 Shorting Fold													
	5200FE	2 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	16.5 16.5 31.1 32.0	7.5 7.5 14.1 14.5					0.188	4.78	Black, Red
	Also available in White.												
	5201FE	3 CDR	500 U-1000 1000	152 U-305 305	21.6 43.0 42.1	9.8 19.5 19.1					0.200	5.08	Black, Red, White
	5202FE	4 CDR	500 1000	152 305	26.5 54.0	12.0 24.5					0.220	5.59	Black, Red, White, Green
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					1.47 mm 16 AWG (19x29) BC	0.077	1.95	Overall Beldfoil® + Drain Wire (18 AWG TC)			
 Shorting Fold 1.23 mm²													
	4200FE	2 CDR	328 1640	100 500	9.7 48.1	4.4 21.8					0.189	4.80	Black, Red
	4201FE	3 CDR	328 1640	100 500	11.9 59.5	5.4 27.0					0.201	5.10	Black, Red, White
	4202FE	4 CDR	328 1640	100 500	15.2 75.8	6.9 34.4					0.220	5.60	Black, Red, White, Green

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

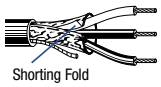
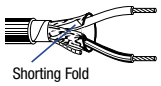
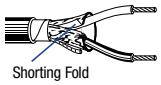
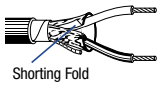
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Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
14 AWG • Stranded (19x27) 1.9 mm Bare Copper • **Beldfoil®** Shield • 16 AWG Tinned Copper Drain Wire													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CL3R					1.85 mm 14 AWG (19x27) BC	0.087	2.21	Overall Beldfoil® + Drain Wire (16 AWG TC)			
 Shorting Fold													
	5100FE	2 CDR	500 U-1000 1000	152 U-305 305	28.4 48.9 51.1	12.9 22.2 23.2					0.238	6.05	Black, White
	5101FE	3 CDR	1000	305	66.1	30.0					0.253	6.43	Black, White, Red
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C	**4100FE**	IEC 60754-2	328 1640	100 500	14.3 71.6	6.5 32.5	1.85 mm 14 AWG (19x27) BC	0.099	2.52	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.240	6.10	Black, White
 Shorting Fold													
2 CDR													
12 AWG • Stranded (19x25) 2.4 mm Bare Copper • **Beldfoil®** Shield • 16 AWG Tinned Copper Drain Wire													
PVC Insulation • Grey PVC Jacket													
300V 75°C	**5000FE**	NEC: CL3R	500 1000	152 305	36.6 67.2	16.6 30.5	2.36 mm 12 AWG (19x25) BC	0.107	2.72	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.272	6.91	Black, White
 Shorting Fold													
2 CDR													
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C	**4000FE**	IEC 60754-2	328 1640	100 500	19.2 95.7	8.7 43.4	2.36 mm 12 AWG (19x25) BC	0.118	3.00	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.272	6.90	Black, White
 Shorting Fold													
2 CDR													

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

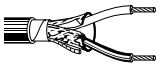
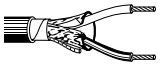
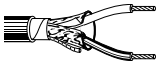
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Security and Alarm Cables

Water-Blocked for Use in Underground Ducts
Unshielded and Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • **Overall Water-Blocking Tape** • Numbered and Color Coded • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 105°C	**5300U1**	NEC:	U-500	U-152	12.1	5.5	1.22 mm	0.058	1.47	Unshielded	0.207	5.26	Black, Red
		CM	500	152	13.4	6.1	18 AWG						
		CEC:	U-1000	U-305	22.0	10.0	(7x26) TC						
		CM FT1	1000	305	24.0	10.9							
 Rip Cord													
2 CDR													
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • **Beldfoil®** Shield • **Overall Water-Blocking Tape** • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 105°C	**5500F1**	NEC:	U-500	U-152	9.0	4.1	0.76 mm	0.058	1.47	Overall Beldfoil®	0.192	4.88	Black, Red
		CM	500	152	9.0	4.1	22 AWG						
		CEC:	U-1000	U-305	16.1	7.3	(7x30) TC						
		CM FT1	1000	305	17.0	7.7							
													
2 CDR													
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • **Beldfoil®** Shield • **Overall Water-Blocking Tape** • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 105°C	**5400F1**	NEC:	U-500	U-152	11.5	5.2	0.96 mm	0.048	1.21	Overall Beldfoil®	0.206	5.23	Black, Red
		CM	500	152	11.0	5.0	20 AWG						
		CEC:	U-1000	U-305	20.9	9.5	(7x28) TC						
		CM FT1	1000	305	20.9	9.5							
													
2 CDR													
18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • **Beldfoil®** Shield • **Overall Water-Blocking Tape** • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 105°C	**5300F1**	NEC:	U-500	U-152	15.0	6.8	1.22 mm	0.058	1.47	Overall Beldfoil®	0.222	5.64	Black, Red
		CM	500	152	15.0	6.8	18 AWG						
		CEC:	U-1000	U-305	29.1	13.2	(7x26) TC						
		CM FT1	1000	305	30.0	13.6							
													
2 CDR													

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

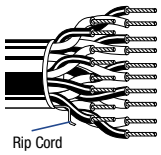
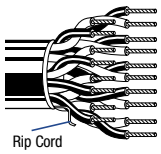
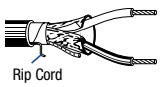
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Security and Alarm Cables

Commercial Applications Unshielded Twisted Pairs

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Twisted Pair • Numbered and Color Coded • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CM FT4					0.76 mm 22 AWG (7x30) BC	0.040	1.01	Unshielded			see chart below
 Rip Cord													
	5541UE	2-Pair	U-1000 1000	U-305 305	18.1 19.0	8.2 8.6					0.206	5.23	
	5542UE	3-Pair	U-500 U-1000 1000	U-152 U-305 305	13.0 24.0 25.1	5.9 10.9 11.4					0.220	5.59	
	5543UE	4-Pair	U-1000 1000	U-305 305	32.0 32.0	14.5 14.5					0.243	6.17	
	5547UE	9-Pair	1000	305	70.1	31.8					0.334	8.48	
18 AWG • Stranded (7x26) 1.2 mm Bare Copper • Twisted Pair • Numbered and Color Coded • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CM FT4					1.22 mm 18 AWG (7x26) BC	0.058	1.47	Unshielded			see chart below
 Rip Cord													
	5341UE	2-Pair	U-1000 1000	U-305 305	34.0 36.2	15.4 16.4					0.266	6.76	
	5342UE	3-Pair	U-1000 1000	U-305 305	48.1 50.0	21.8 22.7					0.283	7.19	
	5343UE	4-Pair	1000	305	67.2	30.5					0.320	8.13	
	5345UE	6-Pair	1000	305	96.1	43.6					0.362	9.19	
	5347UE	9-Pair	1000	305	140.2	63.6					0.434	11.02	
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 75°C	**4341UE**	IEC 60754-2	328 1640	100 500	10.6 53.1	4.8 24.1	1.22 mm 18 AWG (7x26) BC	0.058	1.47	Unshielded	0.264	6.70	see chart below
 Rip Cord 2-Pair													

BC = Bare Copper • DCR = DC resistance

Color Code

Pair No.	Color
1	Black, Red
2	Black, White
3	Black, Green

Pair No.	Color
4	Black, Blue
5	Black, Yellow
6	Black, Brown

Pair No.	Color
7	Black, Orange
8	Black, White
9	Black, Green

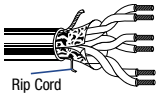
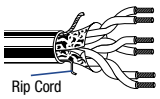
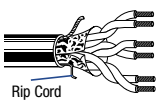
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Security and Alarm Cables

Commercial Applications Shielded Twisted Pairs

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm BC • Twisted Pair • **Beldfoil®** Shield • 24 AWG TC Drain Wire • Numbered and Color Coded • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CM FT4					0.76 mm 22 AWG (7x30) BC	0.040	1.01	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
 Rip Cord													
	5541FE	2-Pair	U-500 U-1000 1000	U-152 U-305 305	11.5 20.9 22.9	5.2 9.5 10.4					0.209	5.31	
	5542FE	3-Pair	U-1000 1000	U-305 305	27.1 29.1	12.3 13.2					0.223	5.66	
	5543FE	4-Pair	1000	305	34.0	15.4					0.246	6.25	
	5545FE	6-Pair	U-1000 1000	U-305 305	46.1 48.1	20.9 21.8					0.278	7.06	
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C							0.76 mm 22 AWG (7x30) BC	0.049	1.25	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
 Rip Cord													
	4541FE	2-Pair	328 1640	100 500	6.2 31.5	2.8 14.3					0.209	5.30	
	4542FE	3-Pair	328 1640	100 500	7.7 39.0	3.5 17.7					0.224	5.70	
	4545FE	6-Pair	328 1640	100 500	13.9 69.4	6.3 31.5					0.280	7.10	
20 AWG • Stranded (7x28) 1.0 mm BC • Twisted Pair • **Beldfoil®** Shield • 24 AWG TC Drain Wire • Numbered and Color Coded • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CM FT4					0.96 mm 20 AWG (7x28) BC	0.048	1.21	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
 Rip Cord													
	5441FE	2-Pair	500 U-1000 1000	152 U-305 305	15.0 29.1 29.1	6.8 13.2 13.2					0.235	5.97	
	5442FE	3-Pair	U-1000 1000	U-305 305	37.9 37.9	17.2 17.2					0.252	6.40	
	5445FE	6-Pair	1000	305	72.1	32.7					0.323	8.20	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Color Code

Pair No.	Color
1	Black, Red
2	Black, White
3	Black, Green

Pair No.	Color
4	Black, Blue
5	Black, Yellow
6	Black, Brown

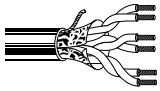
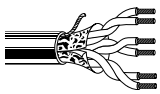
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Security and Alarm Cables

Commercial Applications Shielded Twisted Pairs

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
20 AWG • Stranded (7x28) 1.0 mm BC • Twisted Pair • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded													
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					0.96 mm 20 AWG (7x28) BC	0.057	1.45	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
													
	4441FE	2-Pair	328 1640	100 500	7.7 39.0	3.5 17.7					0.236	6.00	
	4445FE	6-Pair	328 1640	100 500	18.7 93.3	8.5 42.3					0.323	8.20	
18 AWG • Stranded (7x26) 1.2 mm BC • Twisted Pair • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded													
PVC Insulation • Overall Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CM FT4					1.22 mm 18 AWG (7x26) BC	0.058	1.47	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
													
	5341FE	2-Pair	500 U-1000 1000	152 U-305 305	20.9 39.9 42.1	9.5 18.1 19.1					0.270	6.86	
	5342FE	3-Pair	1000	305	52.0	23.6					0.275	6.99	
	5343FE	4-Pair	1000	305	70.1	31.8					0.318	8.08	
	5345FE	6-Pair	500 1000	152 305	52.7 103.2	23.9 46.8					0.373	9.47	
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					1.22 mm 18 AWG (7x26) BC	0.068	1.72	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
													
	4341FE	2-Pair	328 1640	100 500	13.7 68.6	6.2 31.1					0.264	6.70	
	4342FE	3-Pair	1640	500	82.0	37.2					0.276	7.00	
	4343FE	4-Pair	1640	500	103.0	46.7					0.319	8.10	
	4345FE	6-Pair	1640	500	161.6	73.3					0.374	9.50	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Color Code

Pair No.	Color
1	Black, Red
2	Black, White
3	Black, Green

Pair No.	Color
4	Black, Blue
5	Black, Yellow
6	Black, Brown

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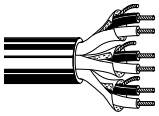
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Security and Alarm Cables

Commercial Applications Individually Shielded Twisted Pairs

NEW GENERATION®

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
22 AWG • Stranded (7x30) 0.8 mm BC • Twisted Pair • Each Pair **Beldfoil®** Shielded • 24 AWG TC Drain Wire • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C	**5543PE**	NEC: CMR CEC: CMG FT4	1000	305	55.1	25.0	0.76 mm 22 AWG (7x30) BC	0.040	1.01	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.303	7.70	see chart below



4-Pair

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Color Code

Pair No.	Color
1	Black, Red
2	Black, White
3	Black, Green
4	Black, Blue

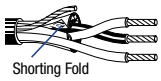
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Security and Alarm Cables

Commercial Applications, Individually Shielded Twisted Pairs plus Conductors

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm BC • Twisted Pair • Each Pair **Beldfoil®** Shielded • 24 AWG TC Drain Wire • With Additional Conductor(s) • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					0.76 mm 22 AWG (7x30) BC	0.040	1.01	Individual Beldfoil® + Drain Wire (24 AWG TC)			
 Shorting Fold													
	5501GE	1 STP +1/C	U-1000	U-305	16.1	7.3					0.171	4.34	Black & Red (shielded pair), White
	5502GE	1 STP +2/C	U-500 U-1000 1000	U-152 U-305 305	9.9 19.0 19.0	4.5 8.6 8.6					0.186	4.72	Black & Red (shielded pair), White, Green
	5542GE	1 STP +2/TP	U-1000	U-305	26.0	11.8					0.220	5.59	Black & Red (shielded pair), Black & Red, Black & Green pairs
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C	**4502GE**	IEC 60754-2	328 1640	100 500	6.0 30.0	2.7 13.6	0.76 mm 22 AWG (7x30) BC	0.049	1.25	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.185	4.70	Black & Red (shielded pair), White, Green
 Shorting Fold													
1 STP + 2/C													
20 AWG • Stranded (7x28) 1.0 mm BC • Twisted Pair • Each Pair **Beldfoil®** Shielded • 24 AWG TC Drain Wire • With Additional Conductor(s) • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					0.96 mm 20 AWG (7x28) BC	0.042	1.06	Individual Beldfoil® + Drain Wire (24 AWG TC)			
 Shorting Fold													
	5401GE	1 STP +1/C	1000	305	22.9	10.4					0.196	4.98	Black & Red (shielded pair), White
	5402GE	1 STP +2/C	U-1000	U-305	26.0	11.8					0.200	5.08	Black & Red (shielded pair), White, Green
18 AWG • Stranded (7x26) 1.2 mm BC • Twisted Pair • Each Pair **Beldfoil®** Shielded • 24 AWG TC Drain Wire • With Additional Conductor(s) • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 70°C	**5302GE**	NEC: CMR CEC: CMG FT4	1000	305	31.5	14.3	1.22 mm 18 AWG (7x26) BC	0.058	1.47	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.225	5.72	Black & Red (shielded pair), White
 Shorting Fold													
1 STP + 2/C													

TC = Tinned Copper • BC = Bare Copper • STP = Shielded Twisted Pair(s) • /C = Conductor(s) • DCR = DC resistance

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Security Coaxial Cables

Surveillance and CCTV Applications

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
H109A • Solid 1.0 mm Bare Copper • **Copper-foil** • 55% Bare Copper Braid																			
5-Cell Gas-Injected Polyethylene Insulation • Black PVC Jacket																			
80°C	**H109A00**		820	250	10.4	4.7	1.0 mm	0.185	4.70	Cu-foil	0.262	6.65	75	80%	17.1	56.0	5	0.5	1.6
			1640	500	26.0	11.8	Solid BC			+ 55% BC							50	1.4	4.6
							41.0 Ω/km*			Braid							100	2.0	6.5
							26.0 Ω/km**			15.0 Ω/km***							230	3.0	9.8
										5.2 mm							400	4.5	14.8
																	800	5.9	19.2
																	860	5.9	19.5
1.0/4.8		Return loss at	5-470 MHz: ≥ 23 dB				Screening attenuation at 30-1000 MHz: ≥ 75 dB										1000	6.6	21.5
			470-862 MHz: ≥ 20 dB				Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m												
			862-2150 MHz: ≥ 18 dB				Pulling Tension: 55 N												
H125A • Solid 1.0 mm Bare Copper • **Duofoil®** • 40% Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • PVC Jacket (Brown, Black and White)																			
80°C	**H125A00**		328	100	10.4	4.7	1.0 mm	0.189	4.80	Duofoil®	0.268	6.80	75	81%	16.8	55.0	5	0.5	1.8
			820	250	26.0	11.8	Solid BC			+ 40% TC							50	1.4	4.7
			1640	500	51.8	23.5	50.0 Ω/km*			Braid							100	2.0	6.5
							23.0 Ω/km**			27.0 Ω/km***							230	3.0	9.8
																	400	3.9	12.9
																	800	5.7	18.6
																	860	5.9	19.3
1.0/4.8		Return loss at	5-470 MHz: ≥ 23 dB				Screening attenuation at 30-1000 MHz: ≥ 75 dB										1000	6.4	20.9
			470-862 MHz: ≥ 20 dB				Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m												
			862-2150 MHz: ≥ 18 dB				Pulling Tension: 55 N												
H121A • Solid 0.8 mm Bare Copper • **Duofoil®** • 40% Tinned Copper Braid																			
Gas-Injected Polyethylene Insulation • PVC Jacket (Brown, Black and White)																			
80°C	**H121A00**		328	100	15.1	6.9	0.8 mm	0.138	3.50	Duofoil®	0.197	5.00	75	82%	16.5	54.0	5	0.5	1.7
			820	250	37.9	17.2	Solid BC			+ 40% TC							50	1.8	5.9
			1640	500	75.7	34.4	75.0 Ω/km*			Braid							100	2.0	8.1
							35.0 Ω/km**			40.0 Ω/km***							230	3.7	12.1
										4.1 mm							400	4.8	15.9
																	800	6.9	22.7
																	860	7.2	23.6
1.0/4.8		Return loss at	5-470 MHz: ≥ 20 dB				Screening attenuation at 30-1000 MHz: ≥ 75 dB										1000	7.8	25.6
			470-862 MHz: ≥ 18 dB				Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m												
			862-2150 MHz: ≥ 16 dB				Pulling Tension: 55 N												

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper

Duofoil® see technical information page 23.13.

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Security Coaxial Cables

Surveillance and CCTV Applications
Shielded or Flooded for Use in Underground Ducts

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
25 AWG • Solid 0.5 mm Bare Copper • 94% Bare Copper Braid																			
Gas-Injected Foam PE Insulation • PVC Jacket (Brown, Red, Yellow, Green, Blue, White and Black)																			
75°C	**573945**	NEC:	U-1000	U-305	15.0	6.8	0.46 mm	0.085	2.16	94% BC	0.146	3.71	75	80%	16.9	55.4	1	0.5	1.5
		CM	1000	305	14.1	6.4	25 AWG			Braid							5	0.9	3.0
		CEC:					Solid BC			18.4 Ω/km***							10	2.0	4.3
		CM FT1					101.7 Ω/km*										50	3.0	9.8
							83.3 Ω/km**										100	4.1	13.5
																	200	6.0	19.7
Mini RG-59																	400	8.6	28.2
																	700	11.6	38.1
			Nominal Delay: 4.167 ns/m							Pulling Tension: 125 N							900	13.5	44.3
																	1000	14.5	47.6
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**473945**	IEC	328	100	4.6	2.1	0.46 mm	0.085	2.16	95% BC	0.146	3.70	75	80%	16.9	55.4			see above
		60754-2	1640	500	23.1	10.5	25 AWG			Braid									
							Solid BC			18.4 Ω/km***									
							101.7 Ω/km*												
							83.3 Ω/km**												
Mini RG-59																			
			Nominal Delay: 4.167 ns/m							Pulling Tension: 125 N									
22 AWG • Stranded (7x30) 0.8 mm Bare Copper • 95% Bare Copper Braid																			
Gas-Injected Foam PE Insulation • Black PVC Jacket																			
75°C	**551945**	NEC:	U-1000	U-305	33.1	15.0	0.76 mm	0.140	3.56	95% BC	0.232	5.89	75	78%	17.3	56.8	1	0.3	1.0
		CM	1000	305	30.0	13.6	22 AWG			Braid							10	0.9	3.0
		CEC:					(7x30) BC			8.5 Ω/km***							50	2.1	6.9
		CM FT1					49.2 Ω/km*										100	3.0	9.8
							40.7 Ω/km**										200	4.5	14.8
																	400	6.6	21.7
RG-59																	700	8.9	29.2
			Nominal Delay: 4.265 ns/m							Pulling Tension: 218 N							900	10.1	33.1
																	1000	10.9	35.8
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**451945**	IEC	328	100	8.2	3.7	0.76 mm	0.140	3.56	95% BC	0.232	5.90	75	78%	17.3	56.8			see above
		60754-2	1640	500	41.2	18.7	22 AWG			Braid									
							(7x30) BC			8.5 Ω/km***									
							49.2 Ω/km*												
							40.7 Ω/km**												
RG-59																			
			Nominal Delay: 4.265 ns/m							Pulling Tension: 218 N									
20 AWG • Solid 0.8 mm Bare Copper • 95% Bare Copper Braid																			
Gas-Injected Foam PE Insulation • PVC Jacket (White or Black)																			
75°C	**543945**	NEC:	U-500	U-152	12.6	5.7	0.81 mm	0.145	3.68	95% BC	0.232	5.89	75	83%	16.3	53.5	1	0.3	1.0
		CM	500	152	13.2	6.0	20 AWG			Braid							5	0.7	2.1
		CEC:	U-1000	U-305	24.9	11.3	Solid BC			11.4 Ω/km***							10	2.0	3.0
		CM FT1	1000	305	31.1	14.1	32.8 Ω/km*										50	1.9	6.2
							21.4 Ω/km**										100	2.6	8.5
																	200	3.6	11.8
RG-59																	400	5.0	16.4
																	700	7.0	23.0
			Nominal Delay: 3.97 ns/m							Pulling Tension: 218 N							900	8.0	26.2
																	1000	8.5	27.9

*DC loop resistance • **DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper

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Security Coaxial Cables

Surveillance and CCTV Applications

Shielded or Flooded for Use in Underground Ducts

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
20 AWG • Solid 0.8 mm Bare Copper • 95% Bare Copper Braid																			
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**443945**	IEC 60754-2	328	100	10.6	4.8	0.81 mm 20 AWG Solid BC 32.8 Ω/km* 21.4 Ω/km**	0.145	3.68	95% BC Braid 11.4 Ω/km***	0.232	5.90	75	83%	16.3	53.5	1	0.3	1.0
			1640	500	52.5	23.8											5	0.7	2.1
																	10	2.0	3.0
																	50	1.9	6.2
																	100	2.6	8.5
																	200	3.6	11.8
RG-59																	400	5.0	16.4
																	700	7.0	23.0
			Nominal Delay: 3.97 ns/m							Pulling Tension: 218 N							900	8.0	26.2
																	1000	8.5	27.9
18 AWG • Solid 1.0 mm Bare Copper • 95% Bare Copper Braid																			
Foam PE Insulation • PVC Jacket (White or Black)																			
75°C	**533945**	NEC:	500	152	20.9	9.5	1.02 mm 18 AWG Solid BC 20.9 Ω/km* 10.8 Ω/km**	0.180	4.57	95% BC Braid 10.1 Ω/km***	0.266	6.76	75	83%	16.3	53.5	1	0.2	0.7
		CM	U-1000	U-305	39.9	18.1											5	0.5	1.5
		CEC:	1000	305	41.0	18.6											10	2.0	2.1
		CM FT1															50	1.5	4.8
																	100	2.1	6.9
																	200	3.0	9.8
RG-6																	400	4.3	14.1
																	700	5.8	19.0
			Nominal Delay: 4.003 ns/m							Pulling Tension: 507 N							900	6.7	22.0
																	1000	7.1	23.3
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**433945**	IEC 60754-2	328	100	13.4	6.1	1.02 mm 18 AWG Solid BC 20.9 Ω/km* 10.8 Ω/km**	0.180	4.57	95% BC Braid 10.1 Ω/km***	0.266	6.75	75	83%	16.3	53.5			see above
			1640	500	67.2	30.5													
RG-6																			
			Nominal Delay: 4.003 ns/m							Pulling Tension: 507 N									
14 AWG • Solid 1.6 mm Bare Copper • 95% Bare Copper Braid																			
Gas-Injected Foam PE Insulation • Black PVC Jacket																			
75°C	**513945**	NEC:	500	152	52.5	23.8	1.63 mm 14 AWG Solid BC 8.5 Ω/km* 4.6 Ω/km**	0.280	7.11	95% BC Braid 3.9 Ω/km***	0.405	10.29	75	84%	16.1	52.8	1	0.2	0.6
		CM	1000	305	98.1	44.5											10	0.4	1.1
		CEC:															50	0.9	3.0
		CM FT1															100	1.3	4.3
																	200	1.9	6.2
																	400	2.9	9.5
RG-11																	700	4.1	13.5
			Nominal Delay: 3.97 ns/m							Pulling Tension: 640 N							900	4.8	15.7
																	1000	5.2	17.1
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**413945**	IEC 60754-2	500	152	100.0	14.5	1.63 mm 14 AWG Solid BC 8.5 Ω/km* 4.6 Ω/km**	0.280	7.11	95% BC Braid 3.9 Ω/km***	0.406	10.30	75	84%	16.1	52.8			see above
			1640	500	159.4	72.3													
RG-11																			
			Nominal Delay: 3.97 ns/m							Pulling Tension: 640 N									

*DC loop resistance • **DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper

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Security Coaxial Cables

Water-Blocked for Use in Underground Ducts

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 Ft.	Nominal Attenuation dB/ 100 m
20 AWG • Solid 0.8 mm Bare Copper • **Duobond® II** • 95 % Tinned Copper Braid • **CoreGuard®**																			
Gas-Injected Foam PE Insulation • Black UV-Resistant PVC Jacket																			
75°C	**5439W5**	NEC:	U-500	U-152	17.4	7.9	0.81 mm	0.145	3.68	Duobond® II	0.236	5.99	75	83 %	16.3	53.5	1	0.3	1.0
		CM	500	152	17.4	7.9	20 AWG			+ 95 % TC							5	0.6	2.1
		CEC:	U-1000	U-305	34.0	15.4	Solid BC			Braid							10	2.0	2.9
		CM FT1	1000	305	34.0	15.4	32.8 Ω/km*			8.2 Ω/km***							50	1.7	5.6
							24.6 Ω/km**										100	2.3	7.5
																	200	3.4	11.2
CoreGuard®																	400	4.7	15.4
																	700	6.3	20.7
RG-59			Nominal Delay: 3.97 ns/m							Pulling Tension: 253 N							900	7.3	24.0
																	1000	7.8	25.6
18 AWG • Solid 1.0 mm Bare Copper • **Duofoil®** • 60 % Aluminum Braid • **CoreGuard®**																			
Gas-Injected Foam PE Insulation • Black UV-Resistant PVC Jacket																			
75°C	**5339W5**	NEC:	U-500	U-152	15.4	7.0	1.02 mm	0.180	4.57	Duofoil®	0.270	6.86	75	83 %	16.3	53.5	4	0.6	2.0
		CM	500	152	15.4	7.0	18 AWG			+ 60 % AL							30	1.3	4.4
		CEC:	U-1000	U-305	30.0	13.6	Solid BC			Braid							211	2.0	10.1
		CM FT1	1000	305	30.0	13.6	20.9 Ω/km*			10.1 Ω/km***							270	3.5	11.5
							10.8 Ω/km**										300	3.7	12.1
																	330	3.9	12.8
CoreGuard®																	400	4.3	14.1
																	450	4.6	15.0
RG-6																	550	5.1	16.7
																	750	6.0	19.7
			Nominal Delay: 3.97 ns/m							Pulling Tension: 302 N							870	6.5	21.3
																	1000	7.0	23.0

*DC loop resistance • **DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • AL = Aluminum

Duofoil® and Duobond® II see technical information page 23.13.

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Security Coaxial Cables

CATV and MATV Applications Commercial or Schlage Systems

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
18 AWG • Solid 1.0 mm Bare Copper • **Duofoil®** • 60 % Aluminum Braid																			
Gas-Injected Foam PE Insulation • PVC Jacket (White or Black)																			
75°C	**5339B5**	NEC:	U-500	U-152	17.4	7.9	1.02 mm	0.180	4.57	Duofoil®	0.266	6.76	75	83%	16.3	53.5	5	0.8	2.7
		CM	500	152	15.4	7.0	18 AWG			+ 60% AL							55	1.6	5.3
		CEC:	U-1000	U-305	34.0	15.4	Solid BC			Braid							211	2.0	10.1
		CM FT1	1000	305	35.1	15.9	20.9 Ω/km*			10.1 Ω/km***							270	3.5	11.5
							10.8 Ω/km**										300	3.7	12.1
																	330	3.9	12.8
Series 6 RG-6																	400	4.3	14.1
																	450	4.6	15.0
																	550	5.1	16.7
			Also available in White.							Nominal Delay: 3.97 ns/m							750	6.0	19.7
										Pulling Tension: 302 N							870	6.5	21.3
																	1000	7.0	23.0
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**4339B5**	IEC	328	100	11.9	5.4	1.02 mm	0.180	4.57	Duofoil®	0.272	6.90	75	83%	16.3	53.5			see above
		60754-2	1640	500	59.3	26.9	18 AWG			+ 63% BC									
		IEC 332-1					Solid BC			Braid									
							20.9 Ω/km*			10.1 Ω/km***									
							10.8 Ω/km**												
Series 6 RG-6																			
										Nominal Delay: 3.97 ns/m									
										Pulling Tension: 302 N									
18 AWG • Solid 1.0 mm Bare Copper • **Quad Shield**																			
Gas-Injected Foam PE Insulation • PVC Jacket (White or Black)																			
75°C	**5339Q5**	NEC:	500	152	19.0	8.6	1.02 mm	0.180	4.57	Duofoil®	0.298	7.57	75	83%	16.3	53.5			see above
		CM	U-1000	U-305	35.9	16.3	18 AWG			+ 60% AL									
		CEC:	1000	305	35.9	16.3	Solid BC			Braid									
		CM FT1					20.9 Ω/km*			Duofoil®									
							10.8 Ω/km**			+ 40% AL									
										Braid									
Series 6 RG-6										10.1 Ω/km***									
										Nominal Delay: 3.97 ns/m									
										Pulling Tension: 462 N									
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**4339Q5**	IEC	328	100	12.3	5.6	1.02 mm	0.180	4.57	Duofoil®	0.299	7.60	75	83%	16.3	53.5			see above
		60754-2	1640	500	62.6	28.4	18 AWG			+ 60% AL									
		IEC 332-1					Solid BC			Braid									
							20.9 Ω/km*			Duofoil®									
							10.8 Ω/km**			+ 40% AL									
										Braid									
Series 6 RG-6										10.1 Ω/km***									
										Nominal Delay: 3.97 ns/m									
										Pulling Tension: 462 N									
18 AWG • Solid 1.0 mm Bare Copper • **Duobond® (Schlage Systems)** • 60 % Aluminum Braid																			
Foam PE Insulation • Black PVC Jacket																			
75°C	**5399B5**	NEC:	U-1000	U-305	28.0	12.7	1.02 mm	0.180	4.57	Duobond®	0.270	6.86	75	83%	16.3	53.5	4	0.6	2.0
		CM	1000	305	29.1	13.2	18 AWG			+ 60% AL							30	1.3	4.4
		CEC:					Solid BC			Braid							211	2.0	10.1
		CM FT1					20.9 Ω/km*			10.1 Ω/km***							270	3.5	11.5
							10.8 Ω/km**										300	3.7	12.1
																	330	3.9	12.8
Series 6 RG-6																	400	4.3	14.1
																	450	4.6	15.0
																	550	5.1	16.7
										Nominal Delay: 3.97 ns/m							750	6.0	19.7
										Pulling Tension: 302 N							870	6.5	21.3
																		1000	7.0	23.0

*DC loop resistance • **DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • AL = Aluminum

Quad Shield = Duofoil Tape + 60 % Aluminum Braid + Duofoil Tape + 40 % Aluminum Braid
Duofoil® and Duobond® see technical information page 23.13.

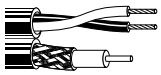
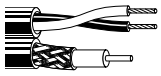
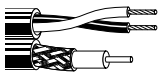
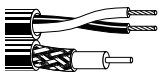
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Security Composite Cables

CCTV Plus Audio or Pan and Tilt CCTV Control Applications

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Shielding Material	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD inch	Component OD mm
Composite • **(1) Pair Unshielded** 18 AWG • **(1) Coax** Solid 0.8 mm Bare Copper • 95% Bare Copper Braid																
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																
300V 75°C	**549945**	NEC: CM CEC: CM FT1	500 1000	152 305	30.0 60.2	13.6 27.3	Unshielded	0.460	11.68	2x Data	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 1.47 mm	PVC Black	0.228	5.79
										1x Coax	20 AWG 0.8 mm Solid BC	95% BC	Foam Polyolefin	PVC Black	0.232	5.89
 RG-59							Color Code 1-Pair: Black and Red									
PVC Insulation (Pairs) • Foam Insulation (Coax) • Grey FRNC/LSNH Jacket																
300V 70°C	**449945**	IEC 60754-2	328 1640	100 500	19.8 98.8	9.0 44.8	Unshielded	0.461	11.70	2x Data	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PE 1.47 mm	FRNC Grey	0.228	5.79
										1x Coax	20 AWG 0.8 mm Solid BC	95% BC	Foam PE	FRNC Grey	0.232	5.90
 RG-59							Color Code 1-Pair: Black and Red									
Composite • **(1) Pair Unshielded** 18 AWG • **(1) Coax** Solid 1.0 mm Bare Copper • 95% Bare Copper Braid																
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																
300V 75°C	**539945**	NEC: CM CEC: CM FT1	500 1000	152 305	34.2 69.0	15.5 31.3	Unshielded	0.500	12.70	2x Data	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 1.47 mm	PVC Black	0.228	5.79
										1x Coax	18 AWG 1.0 mm Solid BC	95% BC	Foam Polyolefin	PVC Black	0.266	6.76
 RG-6 Kötter approved							Color Code 1-Pair: Black and Red									
PVC Insulation (Pairs) • Foam Insulation (Coax) • Grey FRNC/LSNH Jacket																
300V 70°C	**439945**	IEC 60754-2	328 1640	100 500	22.9 114.9	10.4 52.1	Unshielded	0.500	12.70	2x Data	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PE 1.47 mm	FRNC Grey	0.228	5.79
										1x Coax	18 AWG 1.0 mm Solid BC	95% BC	Foam PE	FRNC Grey	0.268	6.80
 RG-6 Kötter approved							Color Code 1-Pair: Black and Red									

BC = Bare Copper • DCR = DC resistance

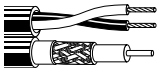
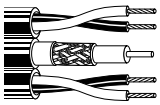
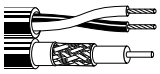
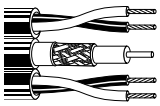
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Security Composite Cables

CCTV Plus Audio or Pan and Tilt CCTV Control Applications

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Shielding Material	Nominal OD		Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component Insulation OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm
Composite • **(2) Conductor** 26 AWG • **(1) Coax** Solid 0.4 mm Bare Copper • Alu Triplex/Duplex • 72 %Tinned Copper Braid																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0001		328	100	11.7	5.3	Unshielded	0.252	6.40	1xData	2 Conductor 26 AWG 0.50 mm (16x0.193) BC	Unshielded	PVC 1.90 mm	PVC	0.062	1.57
										1xCoax	21 AWG 0.41 mm Solid BC	Alu Triplex/Duplex 72% TC Braid	Foam Polyethylene	PVC	0.142	3.60
Composite • **(2) Conductor** 16 AWG • **(1) Coax** Solid 0.8 mm BC • Alu Triplex/Duplex • 55 %Tinned Copper Braid • **(2) Conductor** 26 AWG																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0002		328	100	29.8	13.5	Unshielded	0.315	8.00	1xData	2 Conductor 16 AWG 1.50 mm (30x0.25) BC	Unshielded	PE 3.50 mm	PVC	0.101	2.56
										1xCoax	20 AWG 0.81 mm Solid BC	Alu Triplex/Duplex 55% TC Braid	Foam Polyethylene	PVC	0.142	3.60
										1xControl	2 Conductor 26 AWG 0.50 mm (16x0.20) BC	Unshielded	PE 3.50 mm	PVC	0.062	1.57
Composite • **(2) Conductor** 20 AWG • **(1) Coax** Solid 0.4 mm Bare Copper • Alu Triplex/Duplex • 72 %Tinned Copper Braid																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0003		328	100	14.8	6.7	Unshielded	0.291	7.40	1xData	2 Conductor 20 AWG 1.00 mm (32x0.20) BC	Unshielded	PVC 1.90 mm	PVC	0.085	2.17
										1xCoax	26 AWG 0.41 mm Solid BC	Alu Triplex/Duplex 72% TC Braid	Foam Polyethylene	PVC	0.142	3.60
Composite • **(2) Conductor** 24 AWG • **(1) Coax** Solid 0.4 mm BC • Alu Triplex/Duplex • 72 %Tinned Copper Braid • **(2) Conductor** 26 AWG																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0004		328	100	13.4	6.1	Unshielded	0.260	6.60	1xData	2 Conductor 24 AWG 0.22 mm (30x0.25) BC	Unshielded	PVC 1.90 mm	PVC	0.045	1.15
										1xCoax	26 AWG 0.41 mm Solid BC	Alu Triplex/Duplex 72% TC Braid	Foam Polyethylene	PVC	0.142	3.60
										1xControl	2 Conductor 26 AWG 0.50 mm (16x0.20) BC	Unshielded	PE 3.50 mm	PVC	0.062	1.57

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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Security Composite Cables

CCTV PTZ Camera Cable

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Shielding Material	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD inch	Component OD mm
Composite • **(1) 2-Pair UTP** 24 AWG • **(2) 16 AWG** (19x29) 1.47 mm Tinned Copper Conductors																
Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • PVC Jacket (White or Black)																
	5284US	NEC: CMR	500 1000	152 305	25.5 44.0	11.6 20.0	Unshielded	0.426	10.80	1xData	2-Pair UTP 24 AWG 0.50 mm Solid BC	Unshielded	Polyolefin	F-R PVC	0.200	5.08
										2xPower	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC 2.03 mm	PVC	0.226	5.74
Composite • **(1) 2-Pair UTP** 23 AWG • **(2) 16 AWG** (19x29) 1.47 mm Tinned Copper Conductors																
Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • PVC Jacket (White or Black)																
	5284UE	NEC: CMR	500 1000	152 305	22.5 44.0	10.2 20.0	Unshielded	0.233	5.92	1xData	2-Pair UTP 23 AWG 0.60 mm Solid BC	Unshielded	Polyolefin 1.01 mm	–	–	–
										2xPower	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PP 1.96 mm	–	–	–
Composite • **(1) Cat 5e 4-Bonded-Pair UTP** 24 AWG • **(2) 16 AWG** (19x29) 1.47 mm Tinned Copper Conductors																
Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • PVC Jacket (White or Black)																
	5288US	NEC: CMR	500 1000	152 305	27.5 52.0	12.5 23.6	Unshielded	0.424	10.80	1xData	4-Pair UTP 24 AWG 0.50 mm Solid BC	Unshielded	Polyolefin	F-R PVC	0.198	5.03
										2xPower	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC 2.03 mm	PVC	0.226	5.74

Jacket sequentially marked.

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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Security Composite Cables

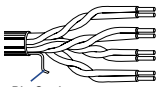
CCTV Fixed and PTZ Camera Cable

NEW GENERATION®

DataTwist® Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper Conductors • Rip Cord

Polyolefin Insulation • Flexible Matte Black PVC Jacket • Category 5e

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	ACR dB/100m	Min. RL dB
	1583E		B-328	B-100	6.1	2.8	0.51 mm	0.035	0.90	Non-	0.197	5.00	1	2.1	62.0	60.2	61.0	63.2	20.0
			U-1000	U-305	18.7	8.5	24 AWG			Bonded-Pair			4	4.0	53.0	49.3	49.0	52.3	23.0
			1000	305	18.7	8.5	Solid BC			Unshielded			8	5.7	49.0	43.1	43.0	46.1	24.5
			1640	500	30.9	14.0				U/UTP			10	6.3	47.0	41.0	41.0	44.0	25.0
			3280	1000	61.7	28.0							16	8.0	44.0	36.2	37.0	39.2	25.0
													20	9.0	43.0	33.8	35.0	36.8	23.6
													25	10.1	41.0	31.2	33.0	34.2	24.3
													31.25	11.4	40.0	28.5	31.0	31.5	23.6
													62.5	16.5	35.0	18.8	25.0	21.8	21.5
													100	21.3	32.0	11.0	21.0	14.0	20.1



4-Pair

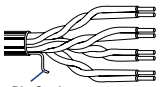
Input Impedance (Ω) 100 + 15%
500 m put-up available in Grey only.

Color Code: see chart below
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

DataTwist® Cat 5e+ • 24 AWG • Solid 0.5 mm Bare Copper Conductors • Rip Cord

Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, White, Blue and Dark Grey)

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	ACR dB/100m	Min. RL dB
	1500A	NEC:	A-1000	A-305	26.0	11.8	0.51 mm	0.035	0.89	Non-	0.190	4.83	1	2.0	65.3	63.3	60.8	–	20.0
		CM	1000	305	22.9	10.4	24 AWG			Bonded-Pair			4	4.0	56.3	52.3	48.7	–	23.0
		CEC:					Solid BC			Unshielded			8	5.7	51.8	46.1	42.7	–	24.5
		CM								U/UTP			10	6.4	50.3	43.9	40.8	–	25.0
													16	8.1	47.3	39.1	36.7	–	25.0
													25	10.3	44.3	34.1	32.8	–	24.3
													31.25	11.6	42.9	31.3	30.9	–	23.6
													62.5	16.8	38.4	21.6	24.8	–	21.5
													100	21.7	35.3	17.1	20.8	–	20.1
													155	27.7	32.5	4.7	16.9	–	19.0
													200	32.0	30.8	3.0	14.7	–	19.0
													250	36.4	29.3	–	12.8	–	18.0
													300	44.3	27.2	–	9.9	–	17.0



4-Pair

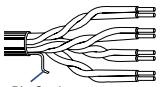
Input Impedance (Ω) 1-16: 100 + 12%
25-100: + 15%
155: + 18%
200-250: + 20%
350: + 22%

Color Code: see chart below
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

DataTwist® Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper Conductors • Central Rod Filler • Rip Cord

Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, White, Blue and Dark Grey)

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	ACR dB/100m	Min. RL dB
	7881A	NEC:	A-1000	A-305	33.1	15.0	0.57 mm	0.043	1.09	Non-	0.235	5.97	1	2.0	72.3	70.3	64.8	–	20.0
		CM	1000	305	30.0	13.6	23 AWG			Bonded-Pair			10	6.0	57.3	51.3	44.8	–	25.0
		CEC:					Solid BC			Unshielded			20	8.5	52.8	44.3	38.7	–	25.0
		CMR FT4								U/UTP			31.25	10.7	49.9	39.2	34.9	–	23.6
													62.5	15.4	45.4	30.0	28.8	–	21.5
													100	19.8	42.3	22.5	24.8	–	20.1
													200	29.0	37.8	8.8	18.7	–	18.0
													250	32.8	36.3	3.5	16.8	–	17.3



4-Pair

Input Impedance (Ω) 1-100: 100 + 15%
200: + 22%
250: + 32%

Color Code: see chart below
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

BC = Bare Copper • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

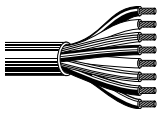
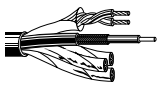
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Security Composite Cables

Video Control System Cables

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Shielding Material	Nominal OD		Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component Insulation OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm
Composite • **(3) Conductor** 20 AWG • **(1) Coax** Solid 0.6 mm Bare Copper • 55% Tinned Copper Braid • **(9) Conductor** 20 AWG																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0005		328	100	48.5	22.0	Unshielded	0.472	12.00	Power	3 Conductor 20 AWG 1.00 mm (20x0.243) BC	Unshielded	PVC	PVC	0.085	2.17
										Coax	23 AWG 0.58 mm Solid BC	55% TC Braid	PE 3.70 mm	PVC	0.146	3.70
										Control	9 Conductor 22 AWG 0.75 mm (22x0.193) BC	Unshielded	PVC	PVC	0.070	1.77
Composite • **(2) Conductor** 16 AWG • **(3) Pair** 28 AWG																
PVC Insulation • Grey PVC Jacket																
	SEC0006		328	100	26.5	12.0	Unshielded	0.374	9.50	Power	2 Conductor 16 AWG 1.50 mm (30x0.25) BC	Unshielded	PVC	PVC	0.101	2.56
										Control	3-Pair 28 AWG 0.35 mm (11x0.193) BC	Unshielded	PVC	PVC	0.056	1.42
Composite • **(2) Conductor** 22 AWG • **(1) Coax** Solid 0.75 mm BC • 80% Tinned Copper Braid • **(6) Conductor** 26 AWG • **(3) Pair** 28 AWG																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0007		328	100	36.4	16.5	Unshielded	0.421	10.70	Power	2 Conductor 22 AWG 0.75 mm (22x0.193) BC	Unshielded	PE	PVC	0.070	1.77
										Coax	21 AWG 0.75 mm Solid BC	80% TC Braid	PE	PVC	0.134	3.40
										Data	6 Conductor 26 AWG 0.50 mm (16x0.193) BC	Unshielded	PE	PVC	0.062	1.57
										Control	3-Pair 28 AWG 0.35 mm (11x0.193) BC	Unshielded	PE	PVC	0.056	1.42

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

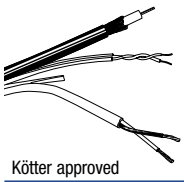
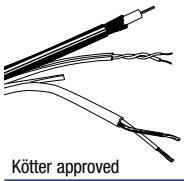
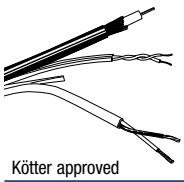
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Security Composite Cables

Banana Peel® PTZ Camera Cable Composite Cables Jacketless

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Shielding Material	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD inch	Component OD mm
Composite • **(1) Coax** 20 AWG 0.8 mm • **(1) Pair Unshielded** 23 AWG 0.6 mm • **(2) CDR Unshielded** 18 AWG 1.2 mm • **Banana Peel®** Unjacketed, Bonded to Central Spline																
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																
300V 75°C	**500PTZ**	NEC: CMR CEC: CMG FT4 Shaft UL 1666	500 1000	152 305	36.8 71.2	17.5 32.3		0.409	10.40	Video	1-Coax RG59/U 20 AWG 0.81 mm Solid BC	95% BC	Foam Polyethylene 5.76 mm	F-R PV Black	0.227	5.77
							White, Blue			Control	1-Pair 23 AWG 0.57 mm Solid BC	Unshielded	Polyolefin 1.04 mm	PVC Blue	0.118	3.00
							Red, Black			Power	2-Conductor 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 2.20 mm	PVC White	0.171	4.34
 Kötter approved																
Composite • **(1) Coax** 20 AWG 0.8 mm • **(1) Pair Shielded** 22 AWG 0.6 mm • 22 AWG Drain Wire • **(2) CDR Unshielded** 18 AWG 1.2 mm • **Banana Peel®** Unjacketed, Bonded to Central Spline																
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																
300V 75°C	**501PTZ**	NEC: CMR CEC: CMG FT4 Shaft UL 1666	500 1000	152 305	41.0 76.1	18.6 34.5		0.417	10.60	Video	1-Coax RG59/U 20 AWG 0.81 mm Solid BC	95% BC	Foam Polyethylene 5.76 mm	F-R PV Black	0.219	5.57
							White/Blue Stripe, Blue			Control	1-Pair 22 AWG 0.76 mm (7x30) BC	Overall Beldfoil® + Drain Wire (22 AWG TC)	Polyolefin 1.57 mm	PVC Blue	0.177	4.50
							Red, Black			Power	2-Conductor 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 2.20 mm	PVC White	0.171	4.34
 Kötter approved																
Composite • **(1) Coax** 20 AWG 0.8 mm • **(1) Pair Shielded** 18 AWG 1.2 mm • 20 AWG Drain Wire • **(2) CDR Unshielded** 18 AWG 1.2 mm • **Banana Peel®** Unjacketed, Bonded to Central Spline																
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																
300V 75°C	**502PTZ**	NEC: CMR CEC: CMG FT4 Shaft UL 1666	500 1000	152 305	50.0 93.9	22.7 42.6		0.453	11.50	Video	1-Coax RG59/U 20 AWG 0.81 mm Solid BC	95% BC	Foam Polyethylene 5.76 mm	F-R PV Black	0.219	5.57
							White/Blue Stripe, Blue			Control	1-Pair 18 AWG 1.24 mm (19x30) BC	Overall Beldfoil® + Drain Wire (20 AWG TC)	Polyolefin 2.03 mm	PVC Blue	0.219	5.56
							Red, Black			Power	2-Conductor 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 2.20 mm	PVC White	0.171	4.34
 Kötter approved																

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

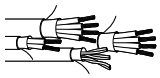
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Security Composite Cables

Banana Peel® Access Control Composite Cables Jacketless

NEW GENERATION®

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Shielding Material	Nominal OD		Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm
Composite • **4 CDR Beldfoil®** 18 AWG 1.22 mm • **3 Pair Beldfoil®** 22 AWG 0.8 mm • **2 CDR Beldfoil®** 22 AWG 0.8 mm • **4 CDR Beldfoil®** 22 AWG 0.8 mm • **Banana Peel®** Unjacketed, Bonded Central Spline																
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																
300V 75°C	**558AFS**	NEC: CMR CEC: CMG	500 1000	152 305	58.4 108.0	26.5 49.0	White, Black, Red, Green	0.448	11.38	Lock Power	4-Conductor 18 AWG 1.22 mm (7x26) BC	Overall Beldfoil®	PVC 2.89 mm	PVC Grey	0.202	5.13
 Kötter approved							White & Green, Orange & Brown, Red & Black			Card Reader	3-Pair 22 AWG 0.76 mm (7x30) BC	Overall Beldfoil®	PVC 1.25 mm	PVC Orange	0.233	5.92
							Black, Red			Door Contact	2-Conductor 22 AWG 0.76 mm (7x30) BC	Overall Beldfoil®	PVC 2.00 mm	PVC White	0.140	3.56
							White, Black, Red, Green			Rex / Spare	4-Conductor 22 AWG 0.76 mm (7x30) BC	Overall Beldfoil®	PVC 2.00 mm	PVC Blue	0.161	4.09

BC = Bare Copper • DCR = DC resistance

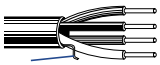
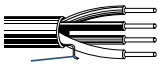
케이블 콘 견적 문의 : 0707-434-7704 / Belden114@CableCon.kr / Fax, 02-744-0909

케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Fire Alarm Cables

Commercial Applications
Power-Limited Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Solid 0.6 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC Insulation • Red PVC Jacket													
300V 75°C		NEC: FPLR CEC: CMG FT4					0.64 mm 22 AWG Solid BC	0.035	0.89	Unshielded			see chart below
 Rip Cord													
	5522UL	4 CDR	C-500	C-152	7.1	3.2					0.125	3.18	
			U-1000	U-305	16.1	7.3							
			1000	305	16.1	7.3							
	5542UL	6 CDR	C-500	C-152	10.1	4.6					0.168	4.27	
			U-1000	U-305	20.9	9.5							
18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC Insulation • Red PVC Jacket													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.02 mm 18 AWG Solid BC	0.050	1.27	Unshielded			see chart below
 Rip Cord													
	5320UL	2 CDR	C-500	C-152	7.9	3.6					0.151	3.84	
			U-500	U-152	9.0	4.1							
			500	152	9.0	4.1							
			U-1000	U-305	18.1	8.2							
			1000	305	17.0	7.7							
	5322UL	4 CDR	C-250	C-76	7.1	3.2					0.176	4.47	
			C-500	C-152	13.2	6.0							
			U-500	U-152	15.4	7.0							
			U-1000	U-305	30.0	13.6							
			1000	305	30.0	13.6							
	5324UL	6 CDR	500	152	23.6	10.7					0.212	5.38	
			U-1000	U-305	43.0	19.5							
			1000	305	44.1	20.0							
	5326UL	8 CDR	1000	305	61.1	27.7					0.230	5.84	
	5328UL	10 CDR	1000	305	71.2	32.3					0.272	6.91	
	5329UL	12 CDR	1000	305	83.1	37.7					0.281	7.14	

BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	Brown

Cond. No.	Color
4	Blue
5	Orange
6	Yellow

Cond. No.	Color
7	Purple
8	Green
9	Red/Black

Cond. No.	Color
10	Red/White
11	Red/Green
12	Red/Blue

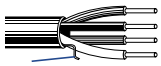
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Fire Alarm Cables

Commercial Applications
Power-Limited Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Solid 0.6 mm Bare Copper • Numbered and Color Coded • Rip Cord													
Polyethylene Insulation • Red FRNC/LSNH Jacket													
300V 75°C		IEC 60754-2					1.02 mm 18 AWG Solid BC	0.068	1.72	Unshielded			see chart below
 Rip Cord													
	4322UL	4 CDR	328 1640	100 500	9.3 46.3	4.2 21.0					0.177	4.50	
	4324UL	6 CDR	328 1640	100 500	13.0 65.0	5.9 29.5					0.213	5.40	

BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color
1	Black
2	Red
3	Brown

Cond. No.	Color
4	Blue
5	Orange
6	Yellow

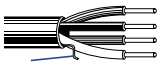
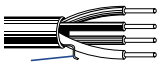
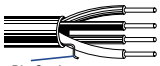
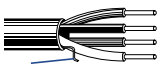
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Fire Alarm Cables

Commercial Applications
Power-Limited Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC Insulation • Red PVC Jacket													
300V 75°C		NEC; FPLR CEC: CMG FT4					1.29 mm 16 AWG Solid BC	0.061	1.54	Unshielded			
 Rip Cord													
	5220UL	2 CDR	500 U-1000 1000	152 U-305 305	13.0 24.0 25.1	5.9 10.9 11.4					0.174	4.42	Black, Red
	5222UL	4 CDR	1000	305	45.0	20.4					0.204	5.18	Black, Red, Brown, Blue
Polyethylene Insulation • Red FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					1.29 mm 16 AWG Solid BC	0.077	1.95	Unshielded			
 Rip Cord													
	4220UL	2 CDR	328 1640	100 500	7.7 38.4	3.5 17.4					0.173	4.40	Black, Red
	4222UL	4 CDR	1640	500	67.7	30.7					0.201	5.10	Black, Red, Brown, Blue
14 AWG • Solid 1.6 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC Insulation • Red PVC Jacket													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.63 mm 14 AWG Solid BC	0.077	1.96	Unshielded			
 Rip Cord													
	5120UL	2 CDR	500 1000	152 305	19.0 38.1	8.6 17.3					0.213	5.41	Black, Red
	5122UL	4 CDR	1000	305	70.1	31.8					0.251	6.38	Black, Red, Brown, Blue
Polyethylene Insulation • Red FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					1.63 mm 14 AWG Solid BC	0.085	2.15	Unshielded			
 Rip Cord													
	4120UL	2 CDR	328 1640	100 500	11.2 56.0	5.1 25.4					0.213	5.40	Black, Red
	4122UL	4 CDR	328 1640	100 500	19.8 99.9	9.0 45.3					0.252	6.40	Black, Red, Brown, Blue

BC = Bare Copper • DCR = DC resistance

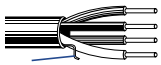
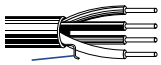
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Fire Alarm Cables

Commercial Applications
Power-Limited Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
12 AWG • Solid 2.1 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC Insulation • Red PVC Jacket													
300V 75°C	**5020UL**	NEC: FPLR CEC: CMG FT4	1000	305	55.1	25.0	2.05 mm 12 AWG Solid BC	0.094	2.38	Unshielded	0.247	6.27	Black, Red
 Rip Cord													
2 CDR													
Polyethylene Insulation • Red FRNC/LSNH Jacket													
300V 70°C	**4020UL**	IEC 60754-2	1640	500	85.3	38.7	2.05 mm 12 AWG Solid BC	0.107	2.72	Unshielded	0.248	6.30	Black, Red
 Rip Cord													
2 CDR													

BC = Bare Copper • DCR = DC resistance

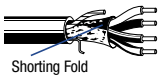
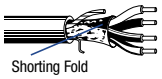
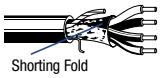
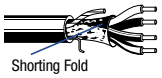
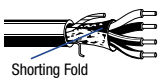
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Fire Alarm Cables

Commercial Applications
Power-Limited Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Solid 0.6 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord													
PVC Insulation • Red PVC Jacket													
300V 75°C	**5522FL**	NEC: FPLR CEC: CMG FT4	C-500 U-1000 1000	C-152 U-305 305	9.0 19.0 19.0	4.1 8.6 8.6	0.64 mm 22 AWG Solid BC	0.035	0.89	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.145	3.68	Black, Red, Brown, Blue
 Shorting Fold													
4 CDR													
18 AWG • Solid 1.0 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord													
PVC Insulation • Red PVC Jacket													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.02 mm 18 AWG Solid BC	0.050	1.27	Overall Beldfoil® + Drain Wire (24 AWG TC)			
 Shorting Fold													
	5320FL	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	10.6 11.5 11.5 22.0 22.0	4.8 5.2 5.2 10.0 10.0					0.155	3.94	Black, Red
	5322FL	4 CDR	C-500 500 U-1000 1000	C-152 152 U-305 305	15.4 16.5 32.0 34.0	7.0 7.5 14.5 15.4					0.170	4.32	Black, Red, Brown, Blue
Polyethylene Insulation • Red FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					1.02 mm 18 AWG Solid BC	0.060	1.52	Overall Beldfoil® + Drain Wire (24 AWG TC)			Black, Red, Brown, Blue
 Shorting Fold													
	4320FL	4 CDR	328 1640	100 500	3.3 16.5	1.5 7.5					0.157	4.00	
	4322FL	4 CDR	328 1640	100 500	3.7 18.1	1.7 8.2					0.169	4.30	
16 AWG • Solid 1.3 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord													
PVC Insulation • Red PVC Jacket													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.29 mm 16 AWG Solid BC	0.061	1.54	Overall Beldfoil® + Drain Wire (24 AWG TC)			
 Shorting Fold													
	5220FL	2 CDR	1000	305	29.1	13.2					0.178	4.52	Black, Red
	5222FL	4 CDR	1000	305	50.0	22.7					0.208	5.28	Black, Red, Brown, Blue
Polyethylene Insulation • Red FRNC/LSNH Jacket													
300V 70°C	**4220FL**	IEC 60754-2	328 1640	100 500	8.8 44.5	4.0 20.2	1.29 mm 16 AWG Solid BC	0.071	1.80	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.177	4.50	Black, Red
 Shorting Fold													
2 CDR													

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

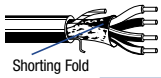
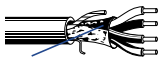
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Fire Alarm Cables

Commercial Applications
Power-Limited Shielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
14 AWG • Solid 1.6 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord													
PVC Insulation • Red PVC Jacket													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.63 mm 14 AWG Solid BC	0.077	1.96	Overall Beldfoil® + Drain Wire (24 AWG TC)			
 Shorting Fold													
	5120FL	2 CDR	500 1000	152 305	22.0 43.0	10.0 19.5					0.217	5.51	Black, Red
	5122FL	4 CDR	1000	305	79.1	35.9					0.255	6.48	Black, Red, Brown, Blue
Polyethylene Insulation • Red FRNC/LSNH Jacket													
300V 70°C	**4120FL**	IEC 60754-2	1640	500	64.4	29.2	1.63 mm 14 AWG Solid BC	0.085	2.15	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.217	5.50	Black, Red
 Shorting Fold													
2 CDR													
12 AWG • Solid 2.0 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord													
Polyethylene Insulation • Red FRNC/LSNH Jacket													
300V 75°C	**5020FL**	NEC: FPLR CEC: CMG FT4	1000	305	60.0	27.2	2.05 mm 12 AWG Solid BC	0.094	2.38	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.251	6.38	Black, Red
 Shorting Fold													
2 CDR													
Polyethylene Insulation • Red FRNC/LSNH Jacket													
300V 70°C	**4020FL**	IEC 60754-2	1640	500	90.4	41.0	2.05 mm 12 AWG Solid BC	0.107	2.72	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.252	6.40	Black, Red
 Shorting Fold													
2 CDR													

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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Fire Alarm Cables

Commercial Applications, Addressable Systems
Power-Limited, Mid-Capacitance Unshielded and Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • Rip Cord													
Foam Polyethylene Insulation • Red PVC Jacket													
300V 75°C	**5320UJ**	NEC: FPL	U-1000	U-305	22.0	10.0	1.02 mm 18 AWG Solid BC	0.055	1.40	Unshielded	0.206	5.23	Black, Red
 Rip Cord													
2 CDR													
16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • Rip Cord													
Foam Polyethylene Insulation • Red PVC Jacket													
300V 75°C	**5220UJ**	NEC: FPL	500 1000	152 305	16.1 32.0	7.3 14.5	1.29 mm 16 AWG Solid BC	0.066	1.67	Unshielded	0.230	5.84	Black, Red
 Rip Cord													
2 CDR													
18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • **Beldfoil®** Shield • Rip Cord													
Foam Polyethylene Insulation • Red PVC Jacket													
300V 75°C		NEC: FPL					1.02 mm 18 AWG Solid BC	0.055	1.40	Overall Beldfoil®			
 Shorting Fold													
	5320FJ	2 CDR	U-1000 1000	U-305 305	27.1 28.0	12.3 12.7					0.211	5.36	Black, Red
	5322FJ	4 CDR	1000	305	43.0	19.5					0.240	6.10	Black, Red, Brown, Blue
16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • **Beldfoil®** Shield • Rip Cord													
Foam Polyethylene Insulation • Red PVC Jacket													
300V 75°C		NEC: FPL					1.29 mm 16 AWG Solid BC	0.066	1.67	Overall Beldfoil®			
 Shorting Fold													
	5220FJ	2 CDR	500 U-1000 1000	152 U-305 305	18.1 35.1 37.0	8.2 15.9 16.8					0.235	5.97	Black, Red
	5222FJ	4 CDR	1000	305	59.1	26.8					0.269	6.83	Black, Red, Brown, Blue

BC = Bare Copper • DCR = DC resistance

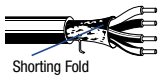
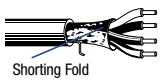
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Fire Alarm Cables

Commercial Applications, Addressable Systems
Power-Limited, Mid-Capacitance Unshielded and Shielded

NEW GENERATION®

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
14 AWG • Solid 1.6 mm Bare Copper • Numbered and Color Coded • **Beldfoil®** Shield • Rip Cord													
Foam Polyethylene Insulation • Red PVC Jacket													
300V 75°C	**5120FJ**	NEC: FPL	1000	305	49.2	22.3	1.63 mm 14 AWG Solid BC	0.084	2.14	Overall Beldfoil®	0.279	7.09	Black, Red
 Shorting Fold 2 CDR Shielded													
12 AWG • Solid 2.1 mm Bare Copper • Numbered and Color Coded • **Beldfoil®** Shield • Rip Cord													
Foam Polyethylene Insulation • Red PVC Jacket													
300V 75°C	**5020FJ**	NEC: FPL	1000	305	69.0	31.3	2.1 mm 12 AWG Solid BC	0.084	2.14	Overall Beldfoil®	0.317	8.05	Black, Red
 Shorting Fold 2 CDR													

BC = Bare Copper • DCR = DC resistance

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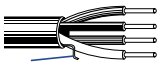
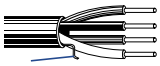
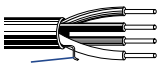
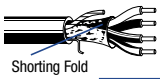
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Fire Alarm Cables

NPLF Systems

Non-Power-Limited Signaling Cable Unshielded and Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C		NEC: NPLF					1.02 mm 18 AWG Solid BC	0.061	1.55	Unshielded			
 Rip Cord	**5320UN**	2 CDR	500 1000	152 305	14.1 31.1	6.4 14.1					0.239	6.07	Black, Red
	5322UN	4 CDR	500 1000	152 305	28.0 52.9	12.7 24.0					0.283	7.19	Black, Red, Brown, Blue
16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C		NEC: NPLF					1.29 mm 16 AWG Solid BC	0.072	1.82	Unshielded			
 Rip Cord	**5220UN**	2 CDR	500 1000	152 305	22.0 39.9	10.0 18.1					0.262	6.65	Black, Red
	5222UN	4 CDR	1000	305	71.2	32.3					0.311	7.90	Black, Red, Brown, Blue
14 AWG • Solid 1.6 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C	**5120UN**	NEC: NPLF	500 1000	152 305	28.7 53.1	13.0 24.1	1.63 mm 14 AWG Solid BC	0.085	2.16	Unshielded	0.299	7.59	Black, Red
 Rip Cord 2 CDR													
18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire • Rip Cord													
PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C		NEC NPLF					1.02 mm 18 AWG Solid BC	0.061	1.55	Overall Beldfoil® + Drain Wire (20 AWG TC)			
 Shorting Fold	**5320FN**	2 CDR	500 1000	152 305	15.4 35.1	7.0 15.9					0.243	6.17	Black, Red
	5322FN	4 CDR	500 1000	152 305	31.1 57.1	14.1 25.9					0.287	7.29	Black, Red, Brown, Blue

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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Fire Alarm Cables

NPLF Systems

Non-Power-Limited Signaling Cable Unshielded and Shielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire • Rip Cord													
PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C		NEC: NPLF					1.29 mm 16 AWG Solid BC	0.072	1.82	Overall Beldfoil® + Drain Wire (20 AWG TC)			
 Shorting Fold	**5220FN**	2 CDR	500 1000	152 305	23.6 45.2	10.7 20.5					0.266	6.76	Black, Red
	5222FN	4 CDR	500 1000	152 305	40.6 76.1	18.4 34.5					0.315	8.00	Black, Red, Brown, Blue
14 AWG • Solid 1.6 mm Bare Copper • Numbered and Color Coded • **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire • Rip Cord													
PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C		NEC: NPLF					1.63 mm 14 AWG Solid BC	0.085	2.16	Overall Beldfoil® + Drain Wire (20 AWG TC)			
 Shorting Fold	**5120FN**	2 CDR	500 1000	152 305	32.0 61.1	14.5 27.7					0.303	7.70	Black, Red
	5122FN	4 CDR	500 1000	152 305	50.7 102.3	23.0 46.4					0.348	8.84	Black, Red, Brown, Blue
12 AWG • Solid 2.1 mm Bare Copper • Numbered and Color Coded • **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire • Rip Cord													
PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C	**5020FN**	NEC: FPL	500 1000	152 305	43.0 83.1	19.5 37.7	2.05 mm 12 AWG Solid BC	0.102	2.58	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.337	8.56	Black, Red
 Shorting Fold 2 CDR													

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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Circuit Integrity & Fire Protection Cables

Commercial Applications

Power-Limited Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
17 AWG • Solid 1.13 mm Plain Annealed Copper to BS6360 • Circuit Protection Conductor • Mica/Glass Fire Barrier • Aluminum/Polyester Taped Screen • Drain Wire													
XL Polyolefin FROH Insulation • Red FRNC/LSNH Jacket													
300V 70°C  1.0 mm²		IEC 331					1.13 mm 17 AWG Solid Plain Annealed Copper BS6360 + Circuit Protection	0.115	2.93	Mica/Glass Fire Barrier Overall Alu/PE foil FROH + Drain Wire			
	4K20FX	2 CDR	328 1640	100 500	21.2 105.8	9.6 48.0					0.313	7.96	Black, Red
	4K21FX	3 CDR	328 1640	100 500	25.4 126.8	11.5 57.5					0.331	8.41	Black, Red, Yellow
	4K22FX	4 CDR	328 1640	100 500	28.4 142.2	12.9 64.5					0.361	9.17	Black, Red, Yellow, Blue
15 AWG • Solid 1.38 mm Plain Annealed Copper to BS6360 • Circuit Protection Conductor • Mica/Glass Fire Barrier • Aluminum/Polyester Taped Screen • Drain Wire													
XL Polyolefin FROH Insulation • Red FRNC/LSNH Jacket													
300V 70°C  1.5 mm²		IEC 331					1.38 mm 15 AWG Solid Plain Annealed Copper BS6360 + Circuit Protection	0.126	3.20	Mica/Glass Fire Barrier Overall Alu/PE foil FROH + Drain Wire			
	4L20FX	2 CDR	328 1640	100 500	26.2 131.2	11.9 59.5					0.335	8.50	Black, Red
	4L21FX	3 CDR	328 1640	100 500	33.3 166.4	15.1 75.5					0.354	8.99	Black, Red, Yellow
	4L22FX	4 CDR	328 1640	100 500	37.7 188.5	17.1 85.5					0.387	9.82	Black, Red, Yellow, Blue
	4L25FX	7 CDR	328 1640	100 500	57.8 288.8	26.2 131.0					0.469	11.90	Black, Red, Yellow, Blue, Black, Red, Yellow
13 AWG • Solid 1.78 mm Plain Annealed Copper to BS6360 • Circuit Protection Conductor • Mica/Glass Fire Barrier • Aluminum/Polyester Taped Screen • Drain Wire													
XL Polyolefin FROH Insulation • Red FRNC/LSNH Jacket													
300V 70°C  2.5 mm²		IEC 331					1.78 mm 13 AWG Solid Plain Annealed Copper BS6360 + Circuit Protection	0.149	3.79	Mica/Glass Fire Barrier Overall Alu/PE foil FROH + Drain Wire			
	4N20FX	2 CDR	328 1640	100 500	36.2 180.8	16.4 82.0					0.381	9.68	Black, Red
	4N21FX	3 CDR	328 1640	100 500	49.2 245.8	22.3 111.5					0.412	10.46	Black, Red, Yellow
	4N22FX	4 CDR	328 1640	100 500	56.9 255.7	25.8 116.0					0.467	11.85	Black, Red, Yellow, Blue

Alu = Aluminum • PE = Polyester • DCR = DC resistance

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BELDEN
SENDING ALL THE RIGHT SIGNALS

RESIDENTIAL



21 Residential Cables

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Please refer to “Terms of Use of Master Catalog” on page 23.22.

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Introduction

RESIDENTIAL

A House is More than a Home.

The intelligent home is here – a living, working, entertaining, learning place. Cables tie the whole experience together providing high quality, superior performance, proven reliability and wide choice to meet all the needs of changing technology and the demands of the discerning consumer.

Key Applications

- Home office
- Audio/video
- Climate control
- Window shade automation
- Lighting

Special Features

Every Belden cable (and connector) is subject to the industry's most rigorous quality control process.

- **High-Performance, Easy-to-Install Cables and Connectors**
  Individual or single application cables are available for any data, video, audio, control or security need, including:
  - Category 5e UTP and optical fiber cables for multimedia, voice, video and data use.
  - Coax cables for HDTV, DBS, CATV, SVHS, CCTV, S-Video, SPIF and cable modem applications.
  - High-conductivity (oxygen-free) speaker cables for audio distribution.
  - Paired, unshielded cables for control applications.
  - Non-category, Cat 5e and Cat 6 low skew performance UTP cables for video signals over twisted pair cables.
  - One-piece connectors and tools that facilitates fast and easy cable connection.

- **Belden also Offers Several Different Composite Cables.**
  Composite cables simplify a multiple use installation by combining Belden data cables, coaxial cables, paired and multi-conductor cables and fiber optic cables in a single-pull product.

  Installation of these cables means that residential properties will be 'future-proof' – ready to embrace the next generation of home entertainment and new technology. This makes a property more saleable and more attractive to the buyer.

- **Time-tested and Preferred in other Industries**
  Many Belden Residential cables in this catalog have been long-standing leaders in other industries such as:
  - Computer Networks
    Where Belden offers the most innovative cables and the leading data cable technology worldwide.
  - Broadcast
    Where network studios prefer Belden over any other cable for picture-perfect quality and professional audio technicians demand Belden for crystal-clear audio quality.
  - Broadband CATV
    Where Belden Duobond® Plus (tri-shield) cables have consistently outperformed the more elaborate quad-shielded cables.
  - Alarm/Security
    Where Belden has been a favorite among installers for many years.

  Now, these industry-leading and time-tested cables are available, along with many new innovations, for wiring the home of the 21st Century...only from Belden.

- **Better Design and Better Performance**
  Some unique high performance technologies are used in the manufacture of the various cables, including:
  - Bonded-Pair Data Cables to Provide the Assurance of Installable Performance™
    With patented bonded-pair design, the cables are able to withstand the rigors of a typical installation without any degradation in performance. This means, for example, that the Cat 5e cable will not only meet the Cat 5e specifications before installation but, more importantly, it will continue to meet them after installation.
  - Coax Cables with Belden's Exclusive Duobond® Plus Shielding
    Duobond® Plus consists of a Duofoil® II (foil tape) surrounded by an 80% braid and an outer layer of foil with a shorting fold. This unique construction provides optimum shielding effectiveness.
  - Composite Cables – Without a Jacket
    Belden Banana Peel® composite cables feature a patent-pending design that eliminates the need for an overall jacket, making the cables easy to handle, identify, pull and terminate. All that is necessary is to peel the cables off the center spline. These cables are increasingly used for multiple installations in new homes.

- **BNC and RCA Connectors**
  One-piece BNC and RCA connectors feature a solid, one-piece brass and nickel-plated construction with gold-plated center pins. They are recommended for mini hi-res video cables:
  - 1277R-1280R
  - 1281R
  - 1281S3-S6

  To ensure proper connection an easy-to-use compression tool and a stripping tool is available.

- **Multimedia Control Cable**
  1502R is a multimedia touch panel control cable for modern audio-video (A/V) and building management systems. When used in conjunction with a touch panel control, these cables improve user comfort and convenience, security and personal enjoyment.

- **Enhanced Sound Performance**
  The copper conductors of Brilliance low cap OFHC speaker cable have been manufactured using an upright shaft manufacturing process. The result of this process is a high-conductivity copper conductor that is inherently free of impurities. Exceptional sound clarity is also achieved by using polyolefin insulation, a much better dielectric than traditional PVC. The low capacitance of this insulation material provides the cable with a superior high frequency response and the facility for extended distance runs.

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Introduction

RESIDENTIAL

- **Easy Installation**
  Easy installation features include the following:
  - Brightly colored jackets for easy identification
  - Print legends that facilitate location identification (Room 12345, Zone ABCDE)
  - Cable jackets with ascending/descending sequential markings at 0.6 m intervals
  - Extremely flexible, easy-to-pull constructions (highly stranded conductors; PVC)

Brilliance® VideoTwist® UTP Cables

To meet the new video/data UTP requirements, Belden has designed a new series of cables. High resolution videos require high performance cables that have low signal skew and low return loss. Typically, these systems use bundled coax for the cable interconnection. Increasingly, however, system designers are turning to unshielded twisted pair (UTP) transmission equipment to distribute component RGB video because UTP is cheaper than coax. UTP cables also mean that the same cable can be used for premise LAN wiring – eliminating the need for two separate cables.

Brilliance VideoTwist® UTP cables offer the best low skew and return loss performance in the marketplace and are designed for quality video applications – plus they meet applicable TIA/EIA standards for data transmissions. The cables dramatically reduce installation costs but retain the appearance, feel and familiarity of a standard category twisted pair cable.

	Nominal Skew (ns/100 m)	Video Transmisson Distance* ft.	m
Typical UTP Data Cables	25 - 45	370 - 520	112 - 158
RGB Coax Cables	15.0	850	259
VideoTwist® 7987	2.2	5900	1798
VideoTwist® 7988	9.0	1475	450
VideoTwist® 7989	10.0	1300	396

* Based on Broadcast standard of 40nd maximum total skew and the use of amplification equipment.

Security

Belden's answer to this challenge is a broad line of security cables which can be found in the New Generation section 20 in this catalog.

Everything you Need for the Intelligent Home

These structured cabling products for the intelligent home are all brought to you by Belden – the most innovative and trusted manufacturer in the cable industry. Belden offers the most comprehensive, time-tested and proven products for cabling the home.

Availability

Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a Residential cable in this catalog section that meets your technical requirements, see our U.S. Master Catalog or contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

Corresponding Literature

Product Bulletins

NP185: Multimedia control cables (1502R)
NP212: Brilliance® VideoTwist® UTP low skew cables
NP229: BNC and RNC connectors
NP232: Brilliance® low cap OFHC speaker cables

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Composite Data, Audio, Video, Security and Control Cables

Banana Peel® Jacketless Cables

Category 5e

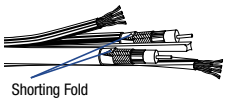
RESIDENTIAL

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal Insulation OD inch	Nominal Insulation OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Core OD inch	Core OD mm

Composite • **(2) Cat 5e** 4-Bonded-Pair UTP 24 AWG • **(2) Series 6 Coax** with **Duobond® Plus** (Bonded Tri-Shield) • **Banana Peel® Unjacketed,** Bonded to Central Spline

Polyolefin Insulation (Pairs) • Gas-Injected FPE Insulation (Coax) • F-R PVC Jacket • No Overall Jacket

7876S	NEC: CMR CEC: CMG FT4	500 1000	152 305	63.1 119.0	28.6 54.0		0.550	13.97	2 x Data	4-Pair UTP Bonded-Pairs 24 AWG 0.5 mm Solid BC	Unshielded	Polyolefin	F-R PVC (1) Blue (1) Green	0.204	5.18
									2 x Coax	Series 6 18 AWG 1.0 mm Solid BC	Duobond® Plus + 77% AL Braid + AL Foil w/shorting fold	Gas-Injected Foam Polyethylene	F-R PVC (1) Black (1) White	0.275	6.99

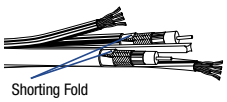


Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 7,049,523; 5,606,151; 5,734,126.
Coax sweep tested to 3.0 GHz and jacket sequentially marked.
Coax shield effectiveness 125 dB @ 1 GHz is better than quad shield.

Composite • **(2) Cat 5e** 4-Bonded-Pair UTP 24 AWG • **(2) Series 6 Coax** with **Duobond® Plus (1) 2-Fiber LANlite® • Banana Peel® Unjacketed,** Bonded to Central Spline

Polyolefin Insulation (Pairs) • Gas-Injected FPE Insulation (Coax) • F-R PVC Jacket • No Overall Jacket

7878S	NEC: CMR OF CEC: CMG OF FT4	500 1000	152 305	70.8 136.9	32.1 62.1		0.595	15.11	2 x Data	4-Pair UTP Bonded-Pairs 24 AWG 0.5 mm Solid BC	Unshielded	Polyolefin	F-R PVC (1) Blue (1) Green	0.204	5.18
									2 x Coax	Series 6 18 AWG 1.0 mm Solid BC	Duobond® Plus + 77% AL Braid + AL Foil w/shorting fold	Gas-Injected Foam Polyethylene	F-R PVC (1) Black (1) White	0.275	6.99
									2 x Fiber LANlite®	Gigabit Ethernet 62.5µ/125µ/900µ (core/clad/coating) Tight-Buffered		PVC (1) Blue (1) Orange	F-R PVC (1) Orange	0.175	4.45



Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 7,049,523; 5,606,151; 5,734,126.
Coax sweep tested to 3.0 GHz and jacket sequentially marked.
Coax shield effectiveness 125 dB @ 1 GHz is better than quad shield.

BC = Bare Copper • AL = Aluminum • DCR = DC resistance

Duobond® Plus see technical information page 23.13.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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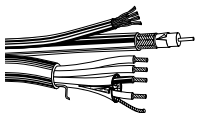
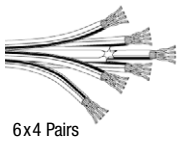
케이블 콘(주) 기술지원팀 :: 콘넥터 문의 0707-434-7701 케이블 문의 0707-434-7702

Composite Data, Audio, Video, Security and Control Cables

Banana Peel® Jacketless Cables

Category 5e

RESIDENTIAL

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal Insulation OD inch	Nominal Insulation OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Core OD inch	Core OD mm
Composite • **(1) NanoSkew™** 4-Non-Bonded-Pair UTP 24 AWG • **(1) RG59 Coax** with **Duofoil® (1) 1502R** • **Banana Peel® Unjacketed,** Bonded to Central Spline																
Polyolefin Insulation (Pairs) • Gas-Injected FPE Insulation (Coax) • Polyolefin Insulation (Control) • F-R PVC Jacket • No Overall Jacket																
	YR48902	NEC CMR OF CEC CMG OF FT4	1000	305	132.3	60.0		0.595	15.11	1xData 7987R	4-Pair UTP Non-Bonded-Pairs 24 AWG 0.5 mm Solid BC	Unshielded	Polyolefin	F-R PVC	0.195 Blue	4.95
										1xCoax 1505A	0.8 mm 20 AWG Solid BC	Duofoil® 100% 95% TC Braid	Gas-Injected HPDE	F-R PVC Black	0.233	5.92
										1xControl 1502R	1-Pair 22 AWG 0.8 mm (7x30) TC 2 Conductors 18 AWG 1.2 mm (16x30) TC	Unshielded	Foam HPDE	F-R PVC Green	0.250	6.35
											Third party verified to TIA/EIA-568-B.2, Category 5e Coax sweep tested to 2.25 GHz and jacket sequentially marked.					
(6) Cat 5e 4-Bonded-Pair UTP 24 AWG • Solid 0.5 mm BC • Rip Cord • **Banana Peel® Unjacketed,** Bonded to Central Spline																
Polyolefin Insulation • Numbered F-R PVC Jackets (Light Blue or Grey) • No Overall Jacket																
	1700S6	CMR CMG	500 1000	152 305	77.6 149.3	35.2 67.7		0.600	15.24	6xData	4-Pair UTP Bonded-Pairs 24 AWG 0.5 mm Solid BC	Unshielded	Polyolefin	F-R PVC	0.204	5.18
 6x4 Pairs											1-20 MHz Ohm 100 + 12% 21-100 MHz + 15% 101-155 MHz + 18% 156-310 MHz + 20% 311-350 MHz + 22%					
												Third party verified to TIA/EIA-568-B.2, Category 5e				

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Duofoil® see technical information page 23.13.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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Composite Data, Audio, Video, Security and Control Cables

Siamese Cables

Category 5e and Category 5

RESIDENTIAL

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Color Code	Nominal Insulation OD inch	Nominal Insulation OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Core OD inch	Core OD mm
Composite • **(1) Cat 5e** 4-Bonded-Pair UTP 24 AWG • **(1) Series 6 Coax** with **Duobond® Plus** Bonded Tri-Shield																
Polyolefin Insulation (Pairs) • Gas-Injected FPE Insulation (Coax) • Overall Green F-R PVC Jacket																
	7911A	NEC: CMR CEC: CMG FT4	500 1000	152 305	35.1 60.0	15.9 27.2		0.275 x 0.529	6.99 x 13.44	1 x Data	4-Pair UTP Bonded-Pairs 24 AWG 0.5 mm Solid BC	Unshielded	Polyolefin	F-R PVC (1) Green	0.200	5.08
										1 x Coax	Series 6 18 AWG 1.0 mm Solid BC	Duobond® Plus + 77% AL Braid + AL Foil w/shorting fold	Gas-Injected Foam Polyethylene	F-R PVC (1) Green	0.275	6.99
											Third party verified to TIA/EIA-568-B.2, Category 5e Coax sweep tested to 3.0 GHz and jacket sequentially marked. Coax shield effectiveness 125 dB @ 1 GHz is better than quad shield.					
Composite • **(1) Cat 5** 4-Pair UTP 24 AW**G** • **(4) 14 AWG** (19x27) 1.85 mm Bare Copper Conductors																
Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • Overall Green F-R PVC Jacket																
	7952A	NEC: CMR CEC: CMG FT4	500	152	58.0	26.3		0.289 x 0.535	7.34 x 13.59	1 x Data	4-Pair UTP 24 AWG 0.5 mm Solid BC	Unshielded	Polyolefin	F-R PVC (1) Blue	0.216	5.49
										4 x CDR 4 x 1.93 mm²	Series 6 14 AWG 1.85 mm (19x27) BC	Unshielded	PVC Red White Green Black	–	0.104	2.64
											Third party verified to TIA/EIA-568-B.2, Category 5 Jacket sequentially marked.					

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Unbonded-Pairs • Solid 0.5 mm BC • Overall **Beldfoil®** Shield • Rip Cord • **24 AWG TC Drain Wire • Overall TC Braid**																			
Polyolefin Insulation • PVC Grey Jacket																			
	1668ES	B-164 1000 1640	B-50 305 500	10.6 64.4 105.8	4.8 29.2 48.0	0.51 mm 24 AWG Solid BC	0.043	1.10	Non-Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC) + Overall TC Braid SF/UTP	0.248	6.30	1 4 8 10 16 20 25 31.25 62.5 100	2.1 4.0 5.7 6.3 8.0 9.0 10.1 11.4 16.5 21.3	62.0 53.0 49.0 47.0 44.0 43.0 41.0 40.0 35.0 32.0	60.2 49.3 43.1 41.0 36.2 33.8 31.2 28.5 18.8 11.0	61.0 49.0 43.0 41.0 37.0 35.0 33.0 31.0 25.0 21.0	100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15	20.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6 21.5 20.1
											Color Code: see chart below Applicable industry standards: EN 50173, ISO/IEC 11801								

Shorting Fold

Siamese Construction

Rip Cord

8-Pair, Twin

TC = Tinned Copper • BC = Bare Copper • AL = Aluminum • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Duobond® Plus see technical information page 23.13.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

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Composite Data, Audio, Video, Security and Control Cables

Multimedia Control Cables

RESIDENTIAL

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Shielding Material	Nominal Insulation OD inch	Nominal Insulation OD mm	Component	Description	Shielding Material & Nom. DCR	Jacket Material & Colors	Insulation OD inch	Insulation OD mm
Control • **(1) Data** 22 AWG Stranded (7x30) 0.8 mm TC • Twisted Pair with **Beldfoil®** Shield • 24 AWG TC Drain Wire • **(2) Power** 18 AWG (16x30) TC Unshielded Pair • Rip Cord																
HDFPE Insulation (Data) • F-R PVC Insulation (Power) • F-R PVC Jacket (Black, White and Aqua)																
300V 75°C	**1502R**	NEC: CMR CEC: CMG FT4	500 1000	152 305	20.1 44.1	9.1 20.0	–	Beldfoil®	0.250	6.35	1x Data	1-Pair 22 AWG 0.8 mm (7x30) TC	Overall Beldfoil® 100% + Drain Wire (24 AWG TC)	HDFPE Blue White	–	–
											1x Power	2 Conductors 18 AWG 1.2 mm (16x30) TC	Unshielded	F-R-PVC Red Black	–	–
Rip Cord																
1 STP + 2 CDR																
Sequential footing marking every 0.6 m.												Pulling Tension: 266 N				

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
22 AWG • Solid 0.6 mm Bare Copper • Twisted Pair																			
Polyolefin Insulation • White FRNC/LSNH Jacket																			
80°C	**7701NH**	IEC 33203C BS 7655	1000 1640	305 500	10.6 17.6	4.8 8.0	0.64 mm 22 AWG Solid BC	0.046	1.17	Unshielded	0.138	3.50	100	68%	14.0	46.0	0.772 1 4 10 16 20	0.4 0.5 0.9 1.5 1.9 2.1	1.3 1.5 3.1 4.9 6.3 6.9
Color Code: White/Blue and Blue/White																			
LonWorks																			

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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Composite Data, Audio, Video, Security and Control Cables

Multimedia Control Cables

RESIDENTIAL

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
20 AWG • Solid 0.8 mm Bare Copper • Twisted Pair • Plastic Foil • 26 AWG Bare Copper Drain Wire																		
PVC Insulation • Green F-R PVC Jacket																		
300V RMS 70°C	**YE00820**	NEC:	100	30	11.5	5.2	0.81 mm	0.056	1.43	Overall	0.276	7.00	–	73	CDR/CDR	30.0	100.0	Red, Black
		CMR	500	152	57.3	26.0	20 AWG			Alu-foil					CDR/SCR	91.0	300.0	White, Yellow
		CEC:	1000	305	114.6	52.0	Solid BC			+ Drain Wire								
		CMR FT4								(26 AWG BC)								
 EIB/KNX																		
			Pulling Tension: 50 N															
PVC Insulation • Green F-R LSNH/FRNC Jacket																		
300V RMS 70°C	**YE00906**	NEC:	100	30	12.3	5.6	0.81 mm	0.063	1.60	Overall	0.283	7.20	–	73	CDR/CDR	30.0	100.0	Red, Black
		CMR	500	152	61.7	28.0	20 AWG			Alu-foil					CDR/SCR	91.0	300.0	White, Yellow
		CEC:	1000	305	123.5	56.0	Solid BC			+ Drain Wire								
		CMR FT4								(26 AWG BC)								
 EIB/KNX																		
			Pulling Tension: 50 N															
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair																		
PVC Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2598	**8471**	NEC:	U-500	U-152	21.0	9.5	1.47 mm	0.105	2.67	Unshielded	0.274	6.96	–	–	CDR/CDR	30.0	100.0	Black, White
		CMG	500	152	20.0	9.1	16 AWG											
		CEC:	U-1000	U-305	41.0	18.6	(19x29) TC											
		CMG FT4	1000	305	43.0	19.5												
 LonWorks																		
			Pulling Tension: 271 N															

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Brilliance® VideoTwist®

Low Skew UTP Cables for Video Transmission Category and Non-Category Styles

RESIDENTIAL

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
NanoSkew™ • 24 AWG Non-Bonded-Pair • Solid 0.5 mm BC • Twisted Pair • **Skew 2.2 ns/100 m** Nominal • Rip Cord • Non-Category Style																			
Polyolefin Insulation • Maroon PVC Jacket																			
300V RMS	**7987R**	NEC:	U-1000	U-305	22.0	10.0	0.51 mm	0.038	0.97	Non-	0.195	4.95	1	2.0	–	–	–	100 ± 15	15.0
		CMR	U-1640	U-500	36.2	16.4	24 AWG			Bonded-Pair			4	4.1	–	–	–	–	–
		CEC:					Solid BC			Unshielded			8	5.8	–	–	–	–	–
		CMG								UTP			10	6.5	–	–	–	–	–
													16	8.2	–	–	–	–	–
													20	9.3	–	–	–	–	–
													25	10.4	–	–	–	–	–
													31.25	11.7	–	–	–	–	–
													62.5	17.0	–	–	–	–	–
													100	22.0	–	–	–	–	–
													155	28.1	–	–	–	–	–
													200	32.0	–	–	–	–	–
													250*	36.4	–	–	–	–	–
													350*	44.8	–	–	–	–	–
Rip Cord																			
4-Pair																			
			Color Code: see chart below																
NanoSkew™ • Category 5e • 24 AWG Bonded-Pair • Solid 0.5 mm Bare Copper • **Skew 9.0 ns/100 m** Nominal • Rip Cord																			
Polyolefin Insulation • Green PVC Jacket																			
300V RMS	**7988R**	NEC:	U-1000	U-305	22.0	10.0	0.51 mm	0.038	0.97	Bonded-Pair	0.204	5.18	1	2.0	65.3	60.3	60.8	100 ± 15	20.0
		CMR	U-1640	U-500	36.2	16.4	24 AWG			Unshielded			4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CEC:					Solid BC			UTP			8	5.8	48.8	43.0	42.7	100 ± 15	24.5
		CMG FT4											10	6.5	47.3	40.8	40.8	100 ± 15	25.0
													16	8.2	44.3	36.0	36.7	100 ± 15	25.0
													20	9.3	42.8	33.5	34.7	100 ± 15	25.0
													25	10.4	41.3	30.9	32.8	100 ± 15	24.3
													31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	18.4	24.8	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1
													155	28.1	29.5	2.0	16.9	100 ± 25	15.8
Rip Cord													200	32.4	27.8	1.0	14.7	100 ± 25	15.0
4-Pair																			
			Color Code: see chart below																
NanoSkew™ • Category 6 • 23 AWG Bonded-Pairs • Solid 0.6 mm Bare Copper • **Skew 10.0 ns/100 m** Nominal • Rip Cord																			
Polyolefin Insulation • Blue PVC Jacket																			
300V RMS	**7989R**	NEC	1000	305	32.0	14.5	0.57 mm	0.042	1.06	Bonded-Pair	0.365	9.27	1	2.0	72.3	70.3	64.8	100 ± 15	20.0
		CMR	1640	500	52.5	23.8	23 AWG			Unshielded	x	x	4	3.8	63.3	59.5	52.7	100 ± 15	23.0
		CEC					Solid BC			UTP	0.165	4.19	8	5.3	58.8	53.4	46.7	100 ± 15	24.5
		CMR FT4											10	6.0	57.3	51.3	44.8	100 ± 15	25.0
													16	7.6	54.3	46.7	40.7	100 ± 15	25.0
													20	8.5	52.8	44.3	38.7	100 ± 15	25.0
													25	9.5	51.4	41.8	36.8	100 ± 15	24.3
													31.25	10.7	49.9	39.2	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
													100	19.8	42.3	22.5	24.8	100 ± 15	20.1
Rip Cord													155	25.2	39.5	14.3	20.9	100 ± 22	18.8
4-Pair													200	29.0	37.8	8.8	18.7	100 ± 22	18.0
MediaTwist™ Construction													250	32.8	36.3	3.5	16.8	100 ± 32	17.3
			Color Code: see chart below																

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance
* Values provided for information only.

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

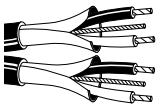
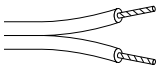
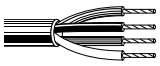
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Home Cinema Audio Cables

High-Conductivity (Oxygen-Free) Copper Speaker Cables

RESIDENTIAL

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
22 AWG • Stranded Conductors (19x34) 0.8 mm TC • Dual Twisted Pair • Individual **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire																		
PVC Insulation • PVC Jacket in Zip-Cord Construction (Red and Green, Red and Black, Red and Violet or Red and Grey)																		
150V RMS 60°C	**1504A**	NEC: CM CEC: CM	U-1000 2000	U-305 610	32.0 63.9	14.5 29.0	0.79 mm 22 AWG (19x34) TC	0.010	0.25	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.143 x 0.286	3.63 x 7.26	45	–	CDR/CDR CDR/SCR	57.0 100.0	187.0 328.0	Black, Red
 2-Pair																		
							610 m put-up available in Red and Grey or Red and Green only. The jacket and shield are bonded so both can be removed with automatic stripping equipment. Drain wire is inside foil shield.								Pulling Tension: 111 N			
16 AWG • Stranded (26x30) 1.5 mm High-Conductivity (Oxygen-Free) Tinned and Bare Copper																		
PVC Insulation • Clear PVC Jacket																		
300V RMS 60°C	**9716**		U-1000 1000	U-305 305	27.1 26.0	12.3 11.8	1.5 mm 16 AWG (26x30) TC/BC	0.027	0.69	Unshielded	0.115 x 0.230	2.92 x 5.84	13	–	–	–	–	Transparent
 2 CDR 2x1.5 mm²																		
							Parallel Zip Construction								Pulling Tension: 347 N			
Low Cap • 16 AWG • Stranded (65x34) 1.5 mm Oxygen-Free High-Conductivity Bare Copper • Conductors Cabled																		
Polyolefin Insulation • PVC Jacket (Green, Blue, Grey, White and Black)																		
	1307A	NEC: CMR, CL3R CEC: CMG FT 4	U-500 1000	U-152 305	15.0 29.1	6.8 13.2	1.5 mm 16 AWG (65x34) BC	0.013	0.32	Unshielded	0.210	5.33	–	–	CDR/CDR	19.9	65.3	Black, Red
 2 CDR 2x1.5 mm²							For audio use only. 305 m put-ups not available in Blue or Green. Suitable for direct burial applications. White and Black jackets are sunlight-resistant.								Brightly colored jackets for easy identification. Print legends that incorporate location information (room 12345, zone ABCDE). Cable jackets with ascending/descending sequential markings at 0.6 m intervals. Extremely flexible, easy-to-pull constructions (highly stranded conductors; PVC jackets)			
Polyolefin Insulation • PVC Jacket (Green, Blue, Grey, White and Black)																		
	1308A	NEC: CMR, CL3R CEC: CMG FT 4	U-500 1000	U-152 305	26.5 54.0	12.0 24.5	1.5 mm 16 AWG (65x34) BC	0.013	0.32	Unshielded	0.270	6.86	–	–	CDR/CDR	19.9	65.3	Black, Red
 4 CDR 4x1.5 mm²							For audio use only. 305 m put-ups not available in Blue or Green. Suitable for direct burial applications. White and Black jackets are sunlight-resistant.								Brightly colored jackets for easy identification. Print legends that incorporate location information (room 12345, zone ABCDE). Cable jackets with ascending/descending sequential markings at 0.6 m intervals. Extremely flexible, easy-to-pull constructions (highly stranded conductors; PVC jackets)			

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

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Home Cinema Audio Cables

High-Conductivity (Oxygen-Free) Copper Speaker Cables

RESIDENTIAL

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
Low Cap • 14 AWG • Stranded (105x34) 1.9 mm Oxygen-Free High-Conductivity Bare Copper • Conductors Cabled																		
Polyolefin Insulation • PVC Jacket (Green, Blue, Grey, White and Black)																		
	1309A	NEC: CMR, CL3R CEC: CMG FT4	U-500 2000	U-152 610	22.5 46.1	10.2 20.9	1.85 mm 14 AWG (105x34) BC	0.015	0.39	Unshielded	0.264	6.71	–	–	CDR/CDR	20.5	67.3	Black, Red
	2 CDR 2x2.1 mm²	For audio use only. 305 m put-ups not available in Blue or Green. Suitable for direct burial applications. White and Black jackets are sunlight-resistant.								Brightly colored jackets for easy identification. Print legends that incorporate location information (room 12345, zone ABCDE). Cable jackets with ascending/descending sequential markings at 0.6 m intervals. Extremely flexible, easy-to-pull constructions (highly stranded conductors; PVC jackets)							
Polyolefin Insulation • PVC Jacket (Green, Blue, Grey, White and Black)																		
	1310A	NEC: CMR, CL3R CEC: CMG FT4	500 1000	152 305	41.4 84.0	18.8 38.1	1.85 mm 14 AWG (105x34) BC	0.015	0.39	Unshielded	0.319	8.10	–	–	CDR/CDR	20.5	67.3	Black, Red
	4 CDR 4x2.1 mm²	For audio use only. 305 m put-ups not available in Blue or Green. Suitable for direct burial applications. White and Black jackets are sunlight-resistant.								Brightly colored jackets for easy identification. Print legends that incorporate location information (room 12345, zone ABCDE). Cable jackets with ascending/descending sequential markings at 0.6 m intervals. Extremely flexible, easy-to-pull constructions (highly stranded conductors; PVC jackets)							
Low Cap • 12 AWG • Stranded (165x34) 2.4 mm Oxygen-Free High-Conductivity Bare Copper • Conductors Cabled																		
Polyolefin Insulation • PVC Jacket (Grey, White and Black)																		
	1311A	NEC: CMR, CL3R CEC: CMG FT 4	U-500 500 1000	U-152 152 305	36.6 36.6 74.1	16.6 16.6 33.6	2.41 mm 12 AWG (165x34) BC	0.018	0.46	Unshielded	0.352	8.94	–	–	CDR/CDR	22.3	73.2	Black, Red
	2 CDR 2x3.2 mm²	For audio use only. 305 m put-ups not available in Blue or Green. Suitable for direct burial applications. White and Black jackets are sunlight-resistant.								Brightly colored jackets for easy identification. Print legends that incorporate location information (room 12345, zone ABCDE). Cable jackets with ascending/descending sequential markings at 0.6 m intervals. Extremely flexible, easy-to-pull constructions (highly stranded conductors; PVC jackets)							
Polyolefin Insulation • PVC Jacket (Grey, White and Black)																		
	1312A	NEC: CMR, CL3R CEC: CMG FT 4	500 1000	152 305	66.6 132.1	30.2 59.9	2.41 mm 12 AWG (165x34) BC	0.018	0.46	Unshielded	0.423	10.74	–	–	CDR/CDR	22.3	73.2	Black, Red
	4 CDR 4x3.2 mm²	For audio use only. 305 m put-ups not available in Blue or Green. Suitable for direct burial applications. White and Black jackets are sunlight-resistant.								Brightly colored jackets for easy identification. Print legends that incorporate location information (room 12345, zone ABCDE). Cable jackets with ascending/descending sequential markings at 0.6 m intervals. Extremely flexible, easy-to-pull constructions (highly stranded conductors; PVC jackets)							
Low Cap • 10 AWG • Stranded (259x34) 3.0 mm Oxygen-Free High-Conductivity Bare Copper • Conductors Cabled																		
Polyolefin Insulation • PVC Jacket (Grey, White and Black)																		
	1313A	NEC: CMR, CL3R CEC: CMG FT 4	500 1000	152 305	55.1 109.1	25.0 49.5	2.97 mm 10 AWG (259x34) BC	0.026	0.66	Unshielded	0.428	10.87	–	–	CDR/CDR	23.2	76.1	Black, Red
	2 CDR 2x5.2 mm²	For audio use only. 305 m put-ups not available in Blue or Green. Suitable for direct burial applications. White and Black jackets are sunlight-resistant.								Brightly colored jackets for easy identification. Print legends that incorporate location information (room 12345, zone ABCDE). Cable jackets with ascending/descending sequential markings at 0.6 m intervals. Extremely flexible, easy-to-pull constructions (highly stranded conductors; PVC jackets)							

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance • CDR = Capacitance between conductors

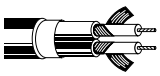
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Home Cinema Video Cables

Low Loss HDTV/SDI Digital Coax and SVHS Coax

RESIDENTIAL

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
28.5 AWG • Solid 0.3 mm Bare Copper • **Duobond®** • 95 % Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black)																			
DigiTruck® SDI/HDTV Digital Video 75°C	**179DT**	NEC: CMR CEC: CMG FT4	500 1000	152 305	5.0 8.0	2.3 3.6	0.31 mm 28.5 AWG Solid BC 379.2 Ω/km* 350.0 Ω/km**	0.056	1.42	Duobond® + 95 % TC Braid 29.2 Ω/km***	0.100	2.54	75	77 %	17.5	57.4	1 5 10 67.5 71.5 100 135 270 360 540 720 750 1000 1500 2000 2250 3000	1.2 1.9 2.4 5.9 6.0 6.9 7.9 10.8 12.5 15.4 17.9 18.3 21.3 26.3 30.8 32.8 38.3	3.9 6.1 7.8 19.3 19.6 22.6 25.8 35.4 41.0 50.5 58.7 60.0 69.9 86.3 101.1 107.6 125.7
 Mini Video Patch 0.3/1.4																			
Guaranteed Return Loss: -21dB Min. 152 m put-up available in Black only.							Nominal Delay: 4.331 ns/m Pulling Tension: 66 N 100% Sweep tested to 3 GHz.												
22 AWG • Stranded (7x29) 0.8 mm Bare Compacted Copper • 95 % Tinned Copper Double Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White, Orange and Violet)																			
High-Flex SDI/HDTV Video Patch 75°C	**1505F**	NEC: CM CEC: CM	1000	305	45.0	20.4	0.76 mm 22 AWG (7x29) BCC 47.8 Ω/km* 40.0 Ω/km**	0.145	3.68	Double Braid 95 % TC Braid 7.8 Ω/km***	0.242	6.15	75	80 %	17.0	55.7	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2250 3000	0.2 0.5 0.9 2.5 3.5 5.1 6.0 7.4 8.7 8.9 10.5 13.3 16.9 20.3	0.7 1.6 2.9 8.2 11.5 16.7 19.7 24.3 28.5 29.2 34.4 43.6 55.4 66.6
 SPDIF, FBAS, Composite Video, Audio 0.8/3.7																			
Return loss at 5-3000 MHz: ≥ 15 dB 100 % Sweep tested: 5 Mhz to 3 GHz Compacted conductor combines impedance uniformity of solid conductors and “nick-resistance” of stranded conductor.							Nominal Delay: 4.265 ns/m Pulling Tension: 400 N												
High-Flex S-video • 30 AWG • Stranded (7x38) 0.3 mm Tinned Copper • 90 % Tinned Copper Serve																			
Foam HDPE Insulation • Matte Black PVC Jacket (Inner PVC Jackets Color Code: Black and Yellow)																			
Round Construction	**1808A**	2 Coax	U-500 500 U-1000 1000	U-152 152 U-305 305	14.5 16.5 31.0 33.0	6.6 7.5 14.1 15.0	0.31 mm 30 AWG (7x38) TC 352.6 Ω/km* 328.0 Ω/km**	0.058	1.47	Serve 90 % TC 24.6 Ω/km***	0.255	6.48	75	78 %	17.3	56.7	1 5 10 30 50 100 200 400 700 900 1000	0.6 1.4 2.1 3.8 5.1 7.6 11.3 16.9 23.3 26.9 28.6	2.0 4.6 6.9 12.5 16.7 24.9 37.1 55.4 76.4 88.3 93.8
																			
Return loss at 5-3000 MHz: ≥ 15 dB							Nominal Delay: 4.265 ns/m Pulling Tension: 52 N												

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • BCC = Bare Compacted Copper

Duobond® see technical information page 23.13.

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Home Cinema Video Cables

Multicore Cables

RESIDENTIAL

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
25 AWG • Solid 0.5 mm Tinned Copper • **Duobond®** • 95 % Tinned Copper Interlocked Serve (Coaxes)																			
FPFA Insulation • Overall Matte Black PVC Jacket																			
HDTV/SDI Digital Video 60°C		NEC: CMR CEC: CMG					0.46 mm 25 AWG Solid TC 129.3 Ω/km* 111.6 Ω/km**	0.074	1.88	Duobond® 95 % TC Serve 17.7 Ω/km***			75	80 %	17.0	55.8	1	0.5	1.7
																	5	1.2	3.8
																	50	3.7	12.1
																	100	4.9	16.1
																	200	6.7	22.0
																	400	9.5	31.2
																	750	13.4	44.0
Miniature 0.5/1.9																	900	15.0	49.2
																	1000	15.8	51.8
																	3000	31.2	102.4
																			Pulling Tension:
	1277R	3 Coax	500	152	25.5	11.6					0.320	8.13							400 N
			1000	305	48.0	21.8													
	1278R	4 Coax	250	76	21.8	9.9					0.351	8.92							489 N
			500	152	31.5	14.3													
			1000	305	60.0	27.2													
	1279R	5 Coax	500	152	40.5	18.4					0.403	10.24							578 N
			1000	305	80.0	36.3													
	1280R	6 Coax	500	152	44.0	20.0					0.423	10.74							601 N
			1000	305	87.0	39.5													
	Nominal Delay: 4.068 ns/m Color Code: see chart below																		
25 AWG • Solid 0.5 mm TC • **Duobond®** • 95 % TC Interlocked Serve (Coaxes) • **Banana Peel® Unjacketed,** Bonded to Central Spline																			
Foam HDPE Insulation • PVC Jacket in Colors																			
HDTV/SDI Digital Video 75°C		NEC: CMR CEC: CMG					0.46 mm 25 AWG Solid TC 129.3 Ω/km* 111.6 Ω/km**	0.074	1.88	Duobond® 95 % TC Serve 17.7 Ω/km***	0.114	2.90	75	80 %	17.0	55.8			see above
Miniature 0.5/1.9																			Pulling Tension:
	1281S3	3 Coax	500	152	17.0	7.7					0.246	6.25							400 N
			1000	305	31.0	14.1													
	1281S4	4 Coax	500	152	23.5	10.7					0.275	6.99							489 N
			1000	305	44.0	20.0													
	1281S5	5 Coax	250	76	16.0	7.3					0.308	7.82							578 N
			500	152	28.5	12.9													
			1000	305	55.0	24.9													
	1281S6	6 Coax	500	152	33.5	15.2					0.342	8.69							601 N
			1000	305	68.0	30.8													
	Nominal Delay: 4.068 ns/m 100 % Sweep tested. 5 MHz to 850 MHz. Patent pending. Color Code: see chart below																		

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper
Duobond® see technical information page 23.13.

Color Code

Cond.	Color
1	Red
2	Green

Cond.	Color
3	Blue
4	Yellow

Cond.	Color
5	Black
6	White

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Tools and Accessories

For Mini Hi-Res Coaxial Cables

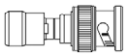
RESIDENTIAL

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Pieces		Standard Unit Weight		AWG of Cable	Cable Retention Force		Body Material/Plating	Center Pin Retention		Nom. Imp. (Ω)	Current Rating	Insertion Loss
			Carton	Box	lbs.	kg		> lbs.	> kg		inch	mm			

One-Piece-Connector • Male BNC • 25 AWG (Mini RG-59) • 2-stud Bayonet Lock • Solid, One-Piece-Brass with **Gold-Plated Center Pins** • **Patent Pending Viewing Window**

Gold-Plated Construction

300V RMS	**1B25A**	*100	10	3.8	1.7	25 AWG	40.0	18.1	Nickel Brass Compression Gold-Plated Center Pin (> 0.01 mm Gold on Beryllium Cu)	0.331	0.150	75	5 amp	< 0.1 dB @ 1 GHz



* Stand packages cannot be broken. Including termination instructions.

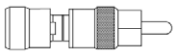
Return loss at RFI: > 100 dB 5-1000 MHz: ≥ 20 dB

Frequency Range: DC-3.0 GHz (dependent upon cable limitations)
Can be used with video multicores 127xR and 1281Sx.

One-Piece-Connector • RCA • 25 AWG (Mini RG-59) • Solid, One-Piece-Brass with **Gold-Plated Center Pins** • **Patent Pending Viewing Window**

Gold-Plated Construction

300V RMS	**1R25A**	*100	10	3.3	1.5	25 AWG	40.0	18.1	Nickel Brass Compression Gold-Plated Center Pin	0.331	0.150	N/A	2 amp	< 0.1 dB @ 1 GHz



* Stand packages cannot be broken. Including termination instructions.

Return loss at 5-1000 MHz: ≥ 20 dB

Frequency Range: DC-3.0 GHz (dependent upon cable limitations)
Can be used with video multicores 127xR and 1281Sx.

Stripping Tool • 3-Cut • 25 AWG (Mini RG-59)

Cable Preparation Tool

	HCST	1	1	0.8	0.4	25 AWG



Can be used with video-multicores 127xR and 1281Sx.

Compression Tool • BNC/RCA die • 25 AWG (Mini RG-59)

Easy-to-Use Compression Tool

	HCCT	1	1	1.8	0.8	25 AWG



Can be used with video-multicores 127xR and 1281Sx.

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BELDEN
SENDING ALL THE RIGHT SIGNALS



22 Glossary of Terms

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Glossary of Terms

5-Mil Copper — Solid Copper Shield. Provides added electrical protection.

802.14 — IEEE's Cable TV MAC and PHY Protocol Working Group.

10GBASE-T — IEEE standard for 10 Gigabit Ethernet transmission over copper.

10GX® — Belden's most advanced end-to-end UTP structured cabling system delivering guaranteed performance of 625 MHz and data-rates of 10 Gb/s.

A — Ampere.

ABR — Available Bit Rate.

Abrasion Resistance — Ability of a wire, cable or material to resist surface wear.

Abrasion Stripper — More accurately described as "buffing stripper," which is a motorized device for removing flat cable insulation by means of one or two buffing wheels that melt the insulation and brush it away from the conductors.

AC — Alternating current. Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

Accelerated Aging — A test that simulates long time environmental conditions in a relatively short time.

ACMC — Alien Crosstalk Margin Computation is the Pass/Fail criteria to determine if a channel complies with 10GBASE-T Alien noise requirements.

ACR — Attenuation Crosstalk Ratio. The difference between attenuation and crosstalk, measured in dB, at a given frequency. Important characteristic in networking transmission to assure that signal sent down a twisted pair is stronger at the receiving end of the cable than are any interference signals imposed on that same pair by crosstalk from other pairs.

ADSL — Asymmetric Digital Subscriber Line.

AES/EBU — Informal name of a digital audio standard established jointly by the AES (Audio Engineering Society) and EBU (European Broadcast Union) organizations.

AF — Audio frequency.

AFEXT — Alien far-end crosstalk loss is a measure of the unwanted signal coupling from near-end disturbing channel pairs into a disturbed pair of a neighboring channel or part thereof, measured at the far-end.

Air Core — Cables that are not gel filled.

Air-Gap Dielectric — A coaxial design in which a monofilament of plastic holds the center conductor in place in a hollow plastic tube allowing the remainder of the dielectric to be air. Typical velocities of up to 84% can be achieved in this design.

Alien crosstalk — A measure of the unwanted signal coupling between cabling or components in close proximity.

Alloy — A combination of two or more different polymers/metals. Usually combined to make use of different properties of each polymer/metal.

Alpeth — Coated Aluminum Polyethylene. Basic sheath.

Alternating Current (AC) — Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

AM — Amplitude modulation.

Ambient — Conditions that exist in the environment of the cable. Conditions existing at a test or operating location prior to energizing equipment (e.g. ambient temperature).

American Wire Gage (AWG) — A standard for expressing wire diameter. As the AWG number gets smaller, the wire diameter gets larger.

Ampacity — Current handling capability expressed in amperes. The maximum current a conductor can carry without being heated beyond a safe limit.

Ampere — A standard unit of current. Defined as the amount of current that flows when one volt of electromotive force (EMF) is applied across one ohm of resistance. One ampere of current is produced by one coulomb of charge passing a point in one second.

Amplitude — The magnitude of a current or voltage. It can be the maximum, minimum, average or RMS value of an alternating current (AC) signal. These four magnitudes are the same for a direct current (DC) signal.

Analog — Representation of data by continuously variable quantities as opposed to a finite number of discrete quantities in digital.

Analog Signal — An electrical signal which varies continuously, not having discrete values. Analog signals are copies or representations of other waves in nature. An analog audio signal, for instance, is a representation of the pressure waves which make up audible sound.

ANEXT — Alien near-end crosstalk loss is a measure of the unwanted signal coupling from near-end disturbing channel pairs into a disturbed pair of a neighboring channel or part thereof, measured at the near-end.

Anneal — To soften and relieve strains in any solid material, such as metal or glass, by heating to just below its melting point and then slowly cooling it. Annealing generally lowers the tensile strength of the material, while improving its flex life and flexibility.

ANSI — American National Standards Institute.

ASP — Aluminum Steel Polyethylene. Provides mechanical and electrical protection.

ASTM — The American Society for Testing and Materials, a standards organization which suggests test methods, definitions and practices.

Asynchronous Transfer Mode — The SONET standard for a packet switching technique which uses packets of a fixed length.

ATM — Asynchronous Transfer Mode.

Attenuation — The decrease in magnitude of a signal as it travels through any transmitting medium, such as a cable or circuitry. Attenuation is usually expressed logarithmically as the ratio of the original and decreased signal amplitudes. It is usually expressed in decibels (dB).

Audio — A term used to describe sounds within the range of human hearing (20 Hz to 20 kHz). Also used to describe devices which are designed to operate within this range.

Audio Frequency — Frequencies within the range of human hearing (approximately 20 Hz to 20 kHz).

Augmented Category 6 — TIA standard for a cabling system and components specified to 500MHz to support 10GBASE-T and other high frequency applications.

AWG — American Wire Gage. A wire diameter specification. The smaller the AWG number, the larger the wire diameter.

AWM — Appliance Wiring Material. A UL designation for a type of wire.

Backbone — The cable used to connect all systems of a multi-level distributed system to an intermediate system.

Backshell — Housing on a connector that covers the area where the cable conductors connect to the connector contacts. It can be a metal housing providing continuity of the shield through IDC connectors.

Balanced Line — A cable having two identical conductors which carry voltages opposite in polarity, but equal in magnitude with respect to ground, suitable for differential signal transmission.

Balun — Balanced to unbalanced (Bal-un) transformer used to connect an unbalanced transmission line (i.e. coaxial cable) to a balanced system or cable, or vice versa. It can also provide impedance transformation, as 300 ohm balanced to 75 ohm unbalanced.

Bandwidth — The difference between the upper and lower limits of a given band of frequencies. It is expressed in Hertz. The range of frequencies that a transmitted communications signal occupies or that a receiving system can accept. For example, it takes more bandwidth to download a photograph in a second than to download a page of text. Virtual reality and three-dimensional audio/visual presentations require even more.

Baud — Rate of digital transmission equal to the reciprocal of the time of one output signaling element.

Bel — A unit that represents the logarithm of the ratio of two levels. One bel equals the base 10 logarithm of the ratio of two power levels. It is also equal to the base 10 logarithm of square of the ratio of two voltage or current levels, provided the impedances are the same at the two levels. (See *dB*.)

Belden — A leading manufacturer of the specialty wire, cable and fiber products needed for new applications in data, audio, video and voice signal transmission, among other things.

Belflex® — A premium hybrid matte-finish jacket material that exhibits superior flexibility at low temperatures along with resistance compared to standard PVC jacketing materials.

Beldfoil® — Belden trademark for highly effective electrostatic shield of reinforced metallic foil.

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Glossary of Terms

Beldsol™ — Solderable Belden magnet wire combining insulating films of polyurethane for excellent dielectric characteristics and nylon for mechanical protection.

Bend Loss — A form of increased attenuation caused by (a) having an optical fiber curved around a restrictive radius of curvature or (b) microbends caused by minute distortions in the fiber imposed by externally induced perturbations.

Bend Radius — Radius of curvature that a flat, round fiber optic or metallic cable can bend without any adverse effects.

Binder — A tape or thread used for holding assembled cable components in place.

Bit — One binary digit.

Bit Error Rate — The number of errors occurring in a system per unit of time (e.g. bits per second).

Bits Per Second — The number of binary bits that can be transmitted per second (bps), i.e. Mb/s (Mega = million), Gb/s (Giga = billion).

BNC — Abbreviation for "Bayonet Neil-Concelman." A coaxial cable connector used extensively in video and RF applications and named for its inventors.

Bonded — 1) Adhesive application of a metallic shielding tape to the dielectric of a coaxial cable to improve electrical performance and ease of connector installation. Also refers to adhesive application of a metallic shielding tape to the jacket of a cable. 2) Steel is bonded to polyethylene with a copolymer adhesive. All Stalpeth and some ASP cables are bonded. Provides extra strength to jacket, primarily used in underground applications.

Bonded ASP — Aluminum Steel Polyethylene where the steel is bonded to polyethylene for strength. Filled cables for use in ducts.

Bonding — The method used to produce good electrical contact between metallic parts of any device. Used extensively in automobiles and aircraft to prevent static buildup. Also refers to the connectors and straps used to bond equipment.

Booster — An amplifier inserted into a cable to increase the signal amplitude in order to compensate for signal loss due to attenuation. This extends the transmission range of the cable. Transformers may be employed to boost AC voltages. The term booster is also applied to amplifiers used in television receiving antenna systems.

BPS — Bits per second. (See *Bits Per Second*)

BPSK — Binary Phase Sift Keying. A type of digital transmission where two phases of the signal are possible to represent binary one and zero.

Braid — A group of textile or metallic filaments interwoven to form a tubular flexible structure which may be applied over one or more wires or flattened to form a strap.

Braid Angle — The angle between a strand of wire in a braid shield and the longitudinal axis (i.e. axis along the length of the center) of the cable it is wound around.

Breakdown Voltage — The voltage at which the insulation between two conductors will fail and allow electricity to conduct or "arc."

Breakout — The point at which a conductor or conductors are separated from a multi-conductor cable to complete circuits at various points along the main cable.

BRI — Basic Rate Interface ISDN.

Broadband — The technique used to multiplex multiple networks on a single cable without interfering with each other. Technologies that allow you to transmit or receive higher volumes of data at higher speeds.

Buffer — A protective coating over an optical fiber.

Buffing Stripper — A motorized device for removing flat cable insulation by means of one or two buffing wheels that melt the insulation and brush it away from the conductors. Also called Abrasion Stripper.

Bunch Strand — Conductors twisted together with the same lay and direction without regard to geometric pattern.

Buried — Cables that are required to go underground.

Bus-bar Wire — Uninsulated tinned copper wire used as a common lead.

Butyl Rubber — A synthetic rubber with good electrical insulating properties.

Byte — A group of eight adjacent binary digits (8 bits).

C — Capacitance (electrical). Celsius (temperature).

Cable — A group of individually insulated conductors or subcomponents twisted helically.

Cable Modem — A device that enables you to hook up your PC to a local cable TV line and receive data at much faster rates than telephone modems and ISDN lines. A strong competitor to DSL telephone service.

Cabling — The grouping or twisting together of two or more insulated conductors or subcomponents to form a cable.

CACSP — Coated Aluminum, Coated Steel, Polyethylene. Provides additional strength and protection.

California Proposition 65 (Prop 65) — Refers to the California Proposition 65 Consent Judgement for wire & cable manufacturers (San Francisco Superior Court nos. 312962 and 320342). ***Compliant Products*** have less than 300 ppm of lead (by weight) in their outer surface layer. ***Exempt Products*** are those that are infrequently handled, manufactured before September 2003, distributed/sold outside the State of California, internal components not normally accessible to the consumer, or contain Prop 65 substances as part of the internal conductor or other component not normally accessible to the consumer. Contact Belden Customer Service or visit www.belden-emea.com for product specific details.

Canadian Electrical Code (CEC) — Canadian version of the U.S. National Electrical Code (NEC).

CAP — Carrierless Amplitude Phase Modulation.

Capacitance — The ability of a dielectric material between conductors to store energy when a difference of potential exists between the conductors. The unit of measurement is the farad. Cable capacitance is usually measured in picofarads (pF).

Capacitive Crosstalk — Cable crosstalk or interference resulting from the coupling of the electrostatic field of one conductor upon one or more others.

Capacitive Reactance — The opposition to alternating current due to the capacitance of a capacitor, cable or circuit. It is measured in ohms and is equal to 1/(2*pi*f*C) where pi is approximately 3.1416, f is the frequency in Hz and C is the capacitance in farads.

Capacitor — Two conducting surfaces separated by a dielectric material. The capacitance is determined by the area of the surfaces, type of dielectric and spacing between the conducting surfaces.

Carrier Strip — Also referred to as substrate. A film that is on one side of a laminated flat cable.

CASPIC — Coated Aluminum, Coated Steel.

Category — Rating of a local area network (LAN) cable established by TIA/EIA to indicate the level of electrical performance.

Category Cables — Belden manufactures Category 3 to 7 cables, all high performance twisted pair data cables. The higher the category number, the greater the bandwidth. Category 7 is currently the highest performance telecommunication wire available. Ours is certified to applicable UL standards.

CATV — Abbreviation for Community Antenna Television. Cable TV.

CB — Citizens band.

CBR — Constant Bit Rate.

CCTV — Closed-circuit television.

Cellular Polyethylene — Expanded or "foam" polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium. The result is a desirable reduction of the dielectric constant compared to solid polyethylene, which decreases attenuation and increases the velocity of propagation.

Center-to-Center Distance — Pitch. Nominal distance from center-to-center of adjacent conductors within a cable. When conductors are flat, pitch is usually measured from the reference edge of a conductor to the reference edge of the adjacent conductor.

Channel — The horizontal cable including the workstation outlet and patch panel in the telecommunications closet plus a maximum combined length of up to ten meters of patch cable at each end (maximum length of 100 meters).

Characteristic Impedance — In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or the impedance which makes a transmission cable seem infinitely long, when connected across the cable's output terminals.

Chrominance Signal — The portion of a video signal that contains the color information.

Circuit — A system of conducting media designed to pass an electric current.

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Circular Mil — Area of a wire that is one-thousandth of an inch (0.001 inch, one mil) in diameter. This area is pi/4 of a square mil. The circular mil area (CMA, cmil) equals the diameter in mils squared. By knowing the CMA of various conductors, they can be used to determine what conductivity and gage size various combinations will produce.

Cladding — A low refractive index material that surrounds the core of an optical fiber causing the transmitted light to travel down the core and protects against surface contaminant scattering or a layer of metal applied over another. Cladding is often chosen to improve conductivity or to resist corrosion.

CO — Central Office.

Coaxial Cable — A cylindrical transmission line composed of a conductor centered inside a metallic tube or shield, separated by a dielectric material, and usually covered by an insulating jacket. Used by cable TV companies to distribute signals to homes and businesses. Also used by telephone companies in some applications and by cellular telephone, radio and television installations.

Coil Effect — The inductive effect exhibited by a spiral-wrapped shield, especially above audio frequencies.

Color Code — A system of different colors or stripes used to identify components of cables such as individual conductors or groups of conductors.

COLS — Commercial Online Service.

Component Video — The unencoded output of a camera, video tape recorder, etc., whereby each red, green, and blue video signal is transmitted down a separate cable (usually coax) to improve picture quality. Can also refer to a video system where the luminance and chrominance video components are kept separate.

Composite Cable — Cable having conductors with two or more AWG sizes or more than one cable type.

Composite Video — The encoded output of a camera, video tape recorder, etc., whereby the red, green and blue video signals are combined with the synchronizing, blanking and color burst signals and are transmitted simultaneously down one cable.

Concentric Stranding — A group of uninsulated wires twisted together and containing a center core with subsequent layers spirally wrapped around the core with alternating lay directions to form a single conductor.

Conductivity — The ability of a material to allow electrons to flow, measured by the current per unit of voltage applied. It is the reciprocal of resistivity and is measured in siemens (S) or mhos.

Conductor — A substance, usually metal, used to transfer electrical energy from point to point.

Conduit — A tube of metal or plastic through which wire or cable can be run. Used to protect the wire or cable and, in the case of metal conduit, to contain the fire of a burning wire or cable.

Connector — A device designed to allow electrical flow from one wire or cable to a device on another cable. A connector will allow interruption of the circuit or the transfer to another circuit without any cutting of wire or cable or other preparation.

Copperweld® — Trademark of Copperweld Steel Co. for copper-clad steel conductor.

Cord — A very flexible insulated cable.

Core — The light conducting central portion of an optical fiber with a refractive index higher than that of the cladding. The center of a cable construction. Most often applies to a coaxial cable, where the core is the center conductor and the dielectric material applied to it.

CoreGuard® — PE grease flooding over the braid in a coax cable to resist water migration in outdoor applications.

Corona — The ionization of gasses about a conductor that results when the potential gradient reaches a certain value.

Coupling — The transfer of energy (without direct electrical contact) between two or more cables or components of a circuit.

Coverage — How well a metal shield covers the underlying surface. Measured in percent.

CPE — Chlorinated polyethylene can be used as either a thermoplastic or thermoset. It is a tough chemical- and oil-resistant material and makes an excellent jacket for industrial control cable. As a thermoset, it can be used as an oil-resistant cord jacket. Other outstanding properties include low water absorption and superior crush resistance, which are important attributes in industrial control applications.

CPS — Abbreviation for cycles per second. This term has been replaced by Hertz is common usage.

CPU — Central Processing Unit.

Crosstalk — A type of interference caused by signals from one pair or cable being coupled into adjacent pairs or cables. Can occur with audio, data or RF signals.

CRT — Cathode Ray Tube.

CSA — Abbreviation for Canadian Standards Association, the Canadian version of the Underwriters Laboratories.

CSMA/CD — Carrier Sense Multiple Access/Collision Detection.

CSR — Customer Service Representative.

CUPIC — Copper.

Current Carrying Capacity — The maximum current a conductor can carry without being heated beyond a safe limit. Ampacity.

Current Loop — A two wire transmit/receive interface.

Current, Alternating (AC) — Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

Current, Direct (DC) — Electrical current whose electrons flow in one direction only and is generally constant.

Cut-through Resistance — A test to determine the ability of a material to withstand the application of blades or sharp edges without being cut.

D1 — A component digital video recording format that conforms to the CCIR-601 standard. Records on 19 mm magnetic tape. (Often used incorrectly to indicate component digital video.)

D2 — A composite digital video recording format. Records on 19 mm magnetic tape.

D3 — A composite digital video recording format. Records on 1/2 inch (12.7 mm) magnetic tape.

Daisy Chain — A cable assembly with three or more termination areas.

Datalene® — Belden trademark for foam polyolefin.

DAVIC — Digital Audio Video Council.

dB — Decibel.

DBS — Direct Broadcast Satellite.

DC — Direct current.

DC Resistance — See *Resistance*.

Decibel (dB) — A decibel is one-tenth of a bel and is equal to 10 times the logarithm of the power ratio, 20 times the log of the voltage ratio, or 20 times the log of the current ratio. Decibels are also used to express acoustic power, such as the apparent level of a sound. The decibel can express an actual level only when comparing with some definite reference level that is assumed to be zero dB.

Delay Line — A transmission line or equivalent device designed to delay a wave or signal for a specific length of time.

DEPIC — Dual Expanded Plastic Insulated Conductor (Foam Skin). Decreases outside diameter of cable.

Derating Factor — A multiplier used to reduce the current carrying capacity of conductors in more adverse environments, such as higher temperature, or where multiple conductors are together in one conduit.

DES — Data Encryption Standard.

DHCP — Dynamic Host Configuration Protocol.

Dielectric — An insulating (nonconducting) medium. It is the insulating material between conductors carrying a signal in a cable. In coaxial cables it is between the center conductor and the outer conductor. In twisted pair cables it is the insulation between conductors plus any surrounding air or other material.

Dielectric Breakdown — Any change in the properties of a dielectric that causes it to become conductive. Normally a catastrophic failure of an insulation because of excessive voltage.

Dielectric Constant — Also called relative permittivity. That property of a dielectric which determines the amount of electrostatic energy that can be stored by the material when a given voltage is applied to it. Actually, the ratio of the capacitance of a capacitor using the dielectric to the capacitance of an identical capacitor using a vacuum (which has a dielectric constant of 1) as a dielectric. A number which indicates the quality of a material to resist holding an electrical charge when placed between two conductors.

Dielectric Heating — The heating of an insulating material when placed in a radio-frequency field, caused by internal losses during the rapid polarization reversal of molecules in the material.

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Dielectric Loss — The power dissipated in a dielectric as the result of the friction produced by molecular motion when an alternating electric field is applied.

Dielectric Strength — The voltage an insulation can withstand before it breaks down. Usually expressed as volts per mil.

Dielectric Withstand Voltage — The voltage an insulation can withstand before it breaks down. Usually expressed as volts per mil.

Digital Signal — An electrical signal which possesses two distinct states (on/off, positive/negative).

Dispersion — The cause of bandwidth limitations in an optical fiber. Dispersion causes a broadening of input pulses along the length of the fiber. Two major types are (a) mode dispersion caused by differential optical path lengths in a multimode fiber, and (b) material dispersion caused by a differential delay of various wavelengths of light in a wave guide material.

Distortion — Any undesired change in a wave form or signal.

Distribution Cable — In a CATV system, the transmission cable between the distribution amplifier and the drop cable.

Disturbed Conductor — A conductor that receives energy generated by the field of another conductor or an external source, e.g. the quiet line.

DMT — Discrete Multitone.

DOCSIS — Data Over Cable Service Interface Specification™. Defines interface requirements for cable modems involved in high-speed data distribution over cable television system networks.

Drain Wire — A non-insulated wire in contact with parts of a cable, usually the shield, and used in the termination to that shield and as a ground connection.

Drop Cable — In a CATV system, the transmission cable from the distribution cable to a dwelling.

DSL — Digital Subscriber Line. A technology for bringing high-bandwidth information to homes and small businesses over ordinary copper telephone lines. A DSL line can carry both data and voice signals, with the data part of the line remaining continuously connected. Currently competes with the cable modem in bringing broadband services to homes and small businesses.

Duobond® II — Belden trademark for a laminated shielding tape consisting of heat sensitive adhesive, aluminum foil, polyester or polypropylene and aluminum foil.

Duobond Plus® — Belden trademark for a foil/braid/foil connection with a shorting fold in the outermost shield.

Duofoil® — Belden trademark for a shield in which metallic foil is applied to both sides of a supporting plastic film.

DVB — Digital Video Broadcasting.

E — Voltage (electromotive force).

Earth — British terminology for zero-reference ground.

Edge Margin — Margin.

EFP — Electronic Field Production. Video production for commercials, television shows and other non-news purposes done outside the studio.

EIA — Electronic Industries Association (formerly RMA or RETMA).

Elastomer — Any material that will return to its original dimensions after being stretched or distorted.

Electromagnetic — Referring to the combined electric and magnetic fields caused by electron motion through conductors.

Electromagnetic Coupling — The transfer of energy by means of a varying magnetic field. Inductive coupling.

Electron Volt — A measure of the energy gained by an electron passing through an electric field produced by one volt.

Electrostatic — Pertaining to static electricity or electricity at rest. An electric charge, for example.

Electrostatic Coupling — The transfer of energy by means of a varying electrostatic field. Capacitive coupling.

ELFEXT — Equal Level Far End Crosstalk (dB). A subtraction of attenuation from FEXT. By subtracting the attenuation, ELFEXT negates the effects of attenuation on the interference as it propagates down the cable, thus bringing it to an equal level.

Elongation — The increase in length of a wire or cable caused by longitudinal tension.

EMF — Electromotive force (voltage).

EMI — Electromagnetic Interference.

End of Life Vehicle (ELV) — Refers to EU directive 2000/53/EC (18-SEPT-2000), which bans the use of certain substances in automobiles. This would require the use of a HMF or RoHS compliant cable.

Energy — The capability of doing work.

Energy Dissipation — Loss of energy from a system due to the conversion of work energy into an undesirable form, usually heat. Dissipation of electrical energy occurs when current flows through a resistance.

ENG — Electronic News Gathering.

EPDM — Ethylene-propylene-diene monomer rubber. A chemically cross-linked elastomer with good electrical insulating properties and excellent flexibility at high and low temperatures. It has good insulation resistance and dielectric strength, as well as excellent abrasion resistance and mechanical properties. EPDM has better cut-through resistance than silicone rubber, which it replaces in some applications.

EPR — Ethylene-propylene copolymer rubber. A material with good electrical insulating properties.

Equilay — More than one layer of helically laid wires with the length of the lay the same for each layer.

ETP — Abbreviation for a copper refining process called Electrolytic Tough Pitch. This process produces a conductor that is 99.95% pure copper (per ASTM B115) resulting in high conductivity.

eV — Electron volt.

Expanded Polyethylene — Expanded or "foam" polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a desirable reduction of the dielectric constant.

Extruded Cable — Conductors are simultaneously insulated and the cable is formed by a continuous extrusion process.

f — Frequency.

Farad — A unit of capacity that will store one coulomb of electrical charge when one volt of electrical pressure is applied.

FAS — Fire Alarm and Signal Cable, CSA (Canadian Standards Association) Cable Designation.

FAQ — Frequently Asked Question.

FCFC — Abbreviation for flat conductor flat cable.

FDDI — Fiber Distributed Data Interface.

FEC — Forward Error Correction.

Feedback — Energy that is extracted from a high-level point in a circuit and applied to a lower level. Positive feedback reduces the stability of a device and is used to increase the sensitivity or produce oscillation in a system. Negative feedback, also called inverse feedback, increases the stability of a system as the feedback improves stability and fidelity.

Feeder Cable — In a CATV system, the transmission cable from the head end (signal pickup) to the trunk amplifier. Also called a trunk cable.

FEP — Fluorinated ethylene-propylene. A thermoplastic material with good electrical insulating properties and chemical and heat resistance.

Ferrous — Composed of and/or containing iron. A ferrous metal exhibits magnetic characteristics.

FEXT — Far End Crosstalk. Crosstalk induced on the pairs, measured at the far end of the cable, referenced to the near end input signal. Usually expressed in decibels (dB).

Fiber — A single, separate optical transmission element characterized by core and cladding.

Fiber Optics — Light transmission through optical fibers for communication and signaling. A technology that transmits information as light pulses along a glass or plastic fiber. Optical fiber carries much more information than conventional copper wire and is generally not subject to interference. Most telephone company long-distance lines are optical fiber. See RUS 1755.900.

Fiber to the home (FTTH) — A technology that provides voice, data and video services from the phone company's branch office to local customers over an all-fiber optic link. Still in its infancy, FTTH technology is substantially more expensive and labor-intensive to install and maintain than competing technologies.

Field — An area through which electric and/or magnetic lines of force pass.

Filled — Cables that are gel filled.

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Glossary of Terms

Fillers — Non-conducting components cabled with the insulated conductors or optical fibers to impart roundness, flexibility, tensile strength or a combination of all three to the cable.

Flamarrest® — Belden trademark for a plenum grade chloride-based thermoplastic jacketing material with low smoke and low flame spread properties; more flexible than traditional fluorocopolymer jacket materials. Cables jacketed with Flamarrest meet the ANSI/NFPA Standard 2621-985 (UL-910) Flame Test.

Flame Resistance — The ability of a material not to fuel a flame once the source of heat is removed.

Flat Cable — Also referred to as planar and/or ribbon cable. Any cable with two or more parallel conductors in the same plane encapsulated by insulating material.

Flat Conductor — A conductor with a width-to-thickness ratio of arbitrarily 5 to 1 or greater.

Flat Conductor Cable — A flat cable with a plurality of flat conductors.

Flex Life — The qualification of the number of times a cable may bend before breaking.

Flexibility — The ability of a cable to bend in a short radius. The ability of a cable to lay flat or conform to a surface as with microphone cables.

FlexPoint PCB — Belden's patent-pending 10GX® Module design which reduces the compensation circuitry's time delay, ensuring stable high performance and enabling transmission rates of 625 MHz and data-rates of 10Gb/s.

Floating — Referring to a circuit which has no connection to ground.

Fluorocopolymer — Generic term for PVDF.

FM — Frequency modulation.

Foam Polyethylene — Expanded or "foam" polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a desirable reduction of the dielectric constant.

FPFA — Foam Perfluoroalkoxy

FR-TPE — FR-TPE, flame retarded thermoplastic elastomer, is a rubber-like plastic that has properties similar to rubber yet is processed as a thermoplastic. It is used as the insulation and jacket in an all TPE construction which meets UL 13 and 1277 industrial cable requirements. It has good electrical properties, abrasion resistance, colorability and flame retardance. This compound is ideal for cold weather applications.

FREP — Flame retardant ethylene propylene is a special flame retardant version of EPDM rubber. It is designed for use as an industrial control insulation and has excellent electrical characteristics, deformation resistance and also meets the flame retardant needs of industrial control cables.

Frequency — The number of times a periodic action occurs in one second. Measured in Hertz.

Frequency Response — The amplitude versus frequency characteristics of a device. Also may refer to the range of frequencies over which the device operates within prescribed performance.

Frequency, Power — Normally, the 50 or 60 Hz power used to operate most AC powered equipment. The frequency of AC power supplied by electric utilities companies.

FSK — Frequency Shift Keying.

FTTC — Fiber-to-the-Curb.

Gage — The physical diameter of a wire. A standard for expressing wire diameter. As the AWG number gets smaller, the wire diameter gets larger.

Gain — The increase of voltage, current, or power over a standard or previous reading. Usually expressed in decibels (dB).

Geosol — A solderable, extra tough film insulation developed by Belden for use in geophysical cables and miniature cables.

Giga — One billion.

Gigahertz (GHz) — A unit of frequency equal to one billion Hz.

GND — Ground.

Gopher — Gopher Resistant Copper Alloy. Provides shield and added protection in a single layer.

GOPIC — Gopher.

Graded-Index — A type of optical fiber in which the refractive index of the core is in the form of a parabolic curve, decreasing toward the cladding. This type of fiber provides high bandwidth capabilities.

Ground — An electrical connection between a circuit and the earth. Also refers to a conductor connected to earth. In some instances, can refer to a central metallic point designated as having zero potential.

Ground Conductor — A conductor in a transmission cable or line that is grounded.

Ground Loop — A completed circuit between shielded pairs of a multiple pair created by random contact between shields. An undesirable circuit condition in which interference is created by ground currents when grounds are connected at more than one point.

Ground Potential — The potential of the earth. A circuit, terminal, or chassis is said to be at ground potential when it is used as a reference point for other potentials in the system.

H — Symbolic designation for magnetic field intensity. Abbreviation for henrys (unit of inductance).

Halar® — A Solvay Solexis trademark for thermoplastic fluoropolymer material with excellent chemical resistance, electrical properties, thermal characteristics and impact resistance.

Haloarrest® I — Haloarrest I is a non-halogenated flame retarded thermoplastic polyolefin with excellent low smoke and flame properties. It is used as a jacket over the XLPE insulated singles (non-XHHW), and the entire construction meets the UL 13 and 1277 specifications as a non-halogenated PLTC/TC cable. Haloarrest I meets the European Specifications on acid gas evolution and % Halogen content. This jacket can also be used with XHHW conductors for wet ratings.

Harness — A flat cable or group of cables, usually with many breakouts with the wire ends prepared for termination or terminated to connectors and ready to install.

HDSL — High bit-rate Digital Subscriber Line.

Headroom — The amount by which a cable ACR exceeds the specified requirements. The TIA/EIA-568B standard specifies a minimum of 10 dB of ACR for Category 5e certification at 100 MHz.

Heavy Metal Free (HMF) — General term for a product or material that does not contain restricted heavy metals, such as Lead or Cadmium. See also Restriction of Hazardous Substances.

Henry — Unit of inductance (H) that will produce a voltage drop of one volt when the current changes at the rate of one ampere per second.

Hertz (Hz) — Unit of frequency equal to one cycle per second.

Heterogeneous Insulation — A cable insulating system composed of two or more layers of different insulating materials.

HF — High Frequency. International Telecommunication Union designation for the 3 to 30 MHz band of frequencies.

HFC — Hybrid Fiber/Coaxial.

High Frequency — International Telecommunication Union designation for the 3 to 30 MHz band of frequencies.

Homogeneous Insulation — A complete cable insulation structure whose components cannot be identified as layers of different materials.

Hook-Up Wire — Single conductor wire with various types of insulation.

Horizontal Cable — Cable used between the workstation outlet and the telecommunications closet. Limited to 90 meters maximum per TIA/EIA-568B.1.

HSCDS — High-Speed Cable Data Service.

HTML — Hypertext Markup Language.

HTTP — Hypertext Transfer Protocol.

Hum — Term used to describe noise in a audio, video or other system that comes from 60 Hz power or its harmonic(s). So named for the low-frequency humming sound produced in audio systems. Usually hum is the result of undesired coupling from a 60 Hz source or of inadequate filtering of the DC output of an AC input power supply.

Hypalon® — A DuPont trade name for a synthetic rubber (chlorosulfonated polyethylene) used as insulating and jacketing material for wire and cable.

I — Symbol used to designate current.

I/O Interconnection — Input/Output interface to the outside world.

I^2R — Formula for power in watts, where I = current in amperes, R = resistance in ohms.

ICEA — Insulated Cable Engineers Association.

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IDC — Insulation Displacement Connector. Type of connector where contact is made to the cable conductor(s) by cutting through the individual conductor's insulation. The conductor does not need to have its insulation removed prior to connection. Flat cable often uses IDCs to simultaneously connect all conductors.

IDSL — ISDN Digital Subscriber Line.

IEEE — Institute of Electrical and Electronic Engineers.

IETF — Internet Engineering Task Force.

IF — Intermediate Frequency.

IFB — Interrupted Feedback (Foldback). A monitoring scheme often used in television where the feed of program audio to an on-air person can be interrupted with directions, cues or other information. Usually integrated into the intercom system.

IGMP — Internet Group Management Protocol.

Impedance — The total opposition that a circuit offers to the flow of alternating current or any other varying current at a particular frequency.

Impedance Match — A condition whereby the impedance of a particular circuit, cable or component is the same as the impedance of the circuit, cable or device to which it is connected.

Impedance Matching Stub — A section of transmission line or pair of conductors cut to match the impedance of a load. Also called matching stub.

Impedance Matching Transformer — A transformer designed to match the impedance of one circuit to that of another.

Impedance, Characteristic — In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or the impedance which makes a transmission cable seem infinitely long, when connected across the cable's output terminals.

Impedance, High — Generally, the area of 25,000 ohms or higher.

Impedance, Low — Generally, the area of 1 through 600 ohms.

Index Edge — Reference Edge.

Inductance — The property of wire which stores electrical current in a magnetic field around the wire. By coiling wire, the effect can be intensified. It is measured in Henrys.

Induction — The phenomenon of a voltage, magnetic field or electrostatic charge being produced in an object from the source of such fields.

Induction Heating — Heating a conducting material by placing it in a rapidly changing magnetic field. The changing field induces electric currents in the material and losses account for the resultant heat.

Inductive Crosstalk — Crosstalk resulting from the coupling of the electromagnetic field of one conductor upon another.

Injection Laser Diode — Sometimes called the semiconductor diode. A laser in which the lasing occurs at the junction of N-type and P-type semiconductor materials.

INMS — Integrated Network Management System.

Input — A signal (or power) which is applied to a piece of electric apparatus or the terminals on the apparatus to which a signal or power is applied.

Insertion Loss — A measure of the attenuation of a cable and/or component(s) by determining the output of a system before and after the device is inserted into the system.

Insulation — A material having good dielectric properties which is used to separate close electrical components, such as cable conductors and circuit components.

Insulation Displacement Connector (IDC) — A mass termination connector for flat cable with contacts that displace the conductor insulation to complete termination.

Insulation Stress — The molecule separation pressure caused by a potential difference across an insulator. The practical stress on insulation is expressed in volts per mil.

Interface — The region where two systems or a major and a minor system meet and interact with each other.

Interference — Disturbances of an electrical or electromagnetic nature that introduce undesirable responses into other electronic equipment.

Intermediate Frequency — A frequency to which a signal is converted for ease of handling. Receives its name from the fact that it is an intermediate step between the initial and final conversion or detection stages.

Ionization — The formation of ions. Ions are produced when polar compounds are dissolved in a solvent and when a liquid, gas, or solid is caused to lose or gain electrons due to the passage of an electric current.

Ionization Voltage — The potential at which a material ionizes. The potential at which an atom gives up an electron.

IP — Internet Protocol.

IPCDN — IP Over Cable Data Network working group of the IETF.

IR — Insulation Resistance.

IR Drop — The designation of a voltage drop in terms of current and resistance. (See also *Voltage Drop*.)

IRC — Inter Relay Chat.

IRS — Ignition Radiation Suppression.

Integrated Services Digital Network — An alternative to telephone modems that allows digital transmission over ordinary telephone copper wire and other media. Home and business users can get highly graphic Web pages more quickly through ISDN adapters than through dial-up connections.

ISO — International Standards Organization.

Isolation — The ability of a circuit or component to reject interference, usually expressed in dB.

ISP — Internet Service Provider.

ITFS — Instructional Television Fixed Service.

ITU — International Telecommunications Union.

Jacket — Pertaining to wire and cable, the outer protective covering that may also provide additional insulation.

Jumper — A short length of conductor or flat cable used to make a connection between terminals or around a break in a circuit or between circuit boards.

kB — Kilobyte.

keV — 1000 electron volts.

Kilo — One thousand.

KPSI — Tensile strength in thousands of pounds per square inch.

kV — Kilovolt (1000 volts).

kVA — Kilo Volt-ampere. One thousand volt-amperes (VA). (See also *VA*.)

kW — Kilowatt.

L — Symbol for inductance.

Laminated Cable — Insulated or uninsulated wires which are encapsulated by two sheets of laminate material to maintain a predetermined pitch.

LAN — Local Area Network. A data network connecting any number of users, intended to serve a small area. A group of computers and associated devices that shares a common communications line and typically shares the resources of a single processor or server within a small geographic area.

Laser — A coherent source of light with a narrow beam and a narrow spectral bandwidth (about 2 nm).

Lay — The length measured along the axis of a wire or cable required for a single strand (in stranded wire) or conductor (in cable) to make one complete turn about the axis of the conductor or cable. In a twisted pair cable, the lay length is the distance it takes for the two wires to completely twist around each other.

Lay Direction — The direction of the progressing spiral twist in a cable while looking along the axis of the cable away from the observer. The lay direction can be either left or right.

Lead Dress — The placement or routing of wiring and component leads in an electrical circuit.

Lead Free — Unless otherwise specified, a homogeneous material containing less than 300ppm of lead (Pb) which is not intentionally added. See also *Heavy Metal Free*.

Lead-in — The cable that provides the path for RF energy between the antenna and the receiver or transmitter.

Leakage — The undesirable passage of current over the surface of or through an insulator.

LEC — Local Exchange Carrier.

Level — A measure of the difference between a quantity or value and an established reference.

LF — Low frequency. International Telecommunication Union designation for the 30 to 300 kHz band of frequencies.

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Glossary of Terms

Light Emitting Diode (LED Source) — A semiconductor device that emits incoherent light formed by the P-N junction. Light intensity is roughly proportional to electrical current flow.

Limpness — The ability of a cable to lay flat or conform to a surface as with microphone cables. The ability of a cable to bend in a short radius.

Line Drop — A voltage loss occurring between any two points in a power or transmission line. Such loss or drop is due to the resistance, reactance or leakage of the line. (See also *Voltage Drop* and *IR Drop*.)

Line Equalizer — A reactance (inductance and/or capacitance) connected in series with a transmission line to alter the frequency-response characteristics of the line.

Line Level — Refers to the output voltage level of a piece of electronic equipment. Usually expressed in decibels (e.g. 0 dBV).

Line Voltage — The value of the potential existing on a supply or power line.

LMDS — Local Multipoint Distribution Service

Load — A device that consumes power from a source and uses that power to perform a function.

Loaded Line — A transmission line that has lumped elements (inductance or capacitance) added at uniformly spaced intervals. Loading is used to provide a given set of characteristics to a transmission line.

Loading — A transmission line that has lumped elements (inductance or capacitance) added at uniformly spaced intervals. Loading is used to provide a given set of characteristics to a transmission line.

Local Area Network — A data network connecting any number of users, intended to serve a small area. (See also *LAN*.)

Long-wire Antenna — An antenna conductor length in excess of one-half of a wavelength.

Loss — Energy or signal lost without accomplishing useful work.

Lossy — Having high losses resulting in efficiency.

Low Frequency — International Telecommunication Union designation for the 30 to 300 kHz band of frequencies.

Luminance Signal — The portion of the composite video signal that represents the brightness or the black and white information.

m — Prefix for milli or one-thousandth.

M — Mutual inductance. The abbreviation for mega or 1 million. And also indicates 1000 (one thousand) feet in the wire industry. Lower case m is for milli or one-thousandth. (See also *m*.)

M′ — Notation representing 1000 feet.

mA — milliampere (one-thousandth of an ampere).

MAC — Media Access Control (layer of OSI Reference Model).

MAN — Metropolitan Area Network.

Manufacturing Automation Protocol — A manufacturing automation protocol based on IEEE 802.4 standards.

MAP — Manufacturing Automation Protocol.

Margin — Distance between reference edge of cable and nearest edge of first conductor or center of first conductor.

Mass-Termination — The process of simultaneously terminating all conductors in a single operation.

Matrix IDC™ — Belden's patent pending 10GX® Module IDC design which reduces the ANEXT between pairs of adjacent modules by 15dB, enabling transmission rates of 625 MHz and data rates of 10Gb/s.

Matte Finish PVC — A special formulation of PVC which very closely looks and feels like rubber.

MATV — Abbreviation for Master Antenna Television.

MB — Megabyte.

Mb/s — Mega bits per second. The number of bits, in millions, transmitted per second.

MCNS — Multimedia Cable Network System Partners Ltd.

MDS — Multipoint Distribution System.

Mega — Prefix meaning million.

Megahertz (MHz) — Unit of frequency equal to one million Hertz.

Metropolitan Area Network (MAN) — A data network intended to serve the area of a city or an area of similar size.

mfd — Microfarad (one-millionth of a farad). Modern abbreviation is µF (lower case Greek *mu* followed by F).

Mho — The unit of conductance equal to the reciprocal of the unit of resistance (ohm).

MHz — Megahertz. (See also *Megahertz*.)

Micro — Prefix meaning one-millionth.

Microfarad — One-millionth of a farad (µf, µfd, mf and mfd are common abbreviations).

Micromicrofarad — One-millionth of a microfarad (µµf, µµfd, mmf, mmfd are common abbreviations). Modern usage is picofarad (pF).

Micron — Millionth of a meter. (µ is a common abbreviation).

Microphonics — Noise caused by mechanical excitation of a system component. In a single-conductor microphone cable, for example, microphonics can be caused by the shield rubbing against the dielectric as the cable is flexed.

Mil — A unit of length equal to one thousandth of an inch (0.001).

Milli — Prefix meaning one-thousandth.

Mitigation — Strategies or methods to improve Alien Crosstalk performance in the field for 10G transmission over installed-base cabling.

Mode — A single electromagnetic wave traveling in an optical fiber.

Modem — Modulator-Demodulator. Device that converts signals in one form to another form compatible with another kind of equipment.

Modulation — Altering the characteristics of a carrier wave to convey information. Modulation techniques include amplitude frequency, phase, plus many other forms of on-off digital coding.

Molded Cable — Cable assemblies with molded connectors on one or both ends.

Mono Filament — A single strand filament as opposed to a braided or twisted filament.

MSO — Multiple System Operator. Cable TV term referring to companies that operate multiple cable TV systems in numerous cities.

MTP — Simple Mail Transfer Protocol.

Multi-Conductor Cable — Cable with more than one conductor.

Multiplex — A technique for putting two or more signals into a single channel.

Mutual Capacitance — Effective capacitance between two conductors when the effects of the other conductors and shield, if present, are removed.

mV — Millivolt (one-thousandth of a volt).

mW — Milliwatt (one-thousandth of a watt).

Mylar® — DuPont trademark for polyethylene terephtalate (polyester) film.

N — Type of coaxial connector named after its inventor, Paul Neil of Bell Labs. Also the symbol for Newton.

Nano — One-billionth.

Nanometer (nm) — One billionth of a meter.

Nanosecond — One billionth of a second.

NAP — Network Access Point.

National Electrical Code (NEC) — A publication of the National Fire Protection Association (NFPA) which outlines requirements for electrical wiring and building construction.

NBR — Butadiene-acrylonitrile copolymer rubber, a material with good oil and chemical resistance.

NEC — National Electrical Code.

NEMA — National Electrical Manufacturers Association.

Neoprene — A synthetic rubber with good resistance to oil, chemical, and flame. Also called polychloroprene.

Network — A method of data communications between computers.

NEXT — Near-end Crosstalk. Crosstalk induced on the pairs, measured at the end near the transmitter. Usually expressed in decibels (dB).

NFPA — National Fire Protection Association.

Nibble — One half byte (4 bits).

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Glossary of Terms

NOC — Network Operations Center.

Noise — In a cable or circuit, any extraneous signal which tends to interfere with the signal normally present in or passing through the system.

Non-Paired Cable — Cable with two or more cabled conductors that are not in a paired configuration.

Non-Plenum — A description for a cable that does not meet the requirements of NFPA 262 (UL 910) CMP flame test. Such a cable cannot be installed in an area that is used for air return (plenum).

Notch — The removal of the web section between conductors of a flat cable to aid in stripping, slitting and termination.

NTSC — National Television System Committee. Organization that formulated standards for the current U.S. color television system. This system is used in most countries of the Americas and in other parts of the world. It was designed to be compatible with the existing monochrome TV sets, so that they would not become obsolete. Color televisions would also be able to receive monochrome transmissions. NTSC uses a 3.579545 MHz subcarrier whose phase varies with the instantaneous hue of the televised color and whose amplitude varies with the instantaneous saturation of the color. NTSC employs 525 lines per frame, 29.97 frames per second and 59.94 fields per second.

Numerical Aperture (NA) — A measure of the angular acceptance for a fiber. It is approximately the sine of the half-angle of the acceptance cone.

Nylon — An abrasion-resistant thermoplastic with good chemical resistance.

OFDM — Orthogonal Frequency Division Multiplexing.

OFHC — Abbreviation for oxygen-free, high conductivity copper. It has 99.95% minimum copper content and an average annealed conductivity of 101% compared to standard copper.

Ohm — The unit of electrical resistance. The value of resistance through which a potential difference of one volt will maintain a current of one ampere.

Ohm's Law — Stated E=IR, I=E/R or R=E/I. The current I in a circuit is directly proportional to the voltage E, and inversely proportional to the resistance R.

Optical Waveguide Fiber — A transparent filament of high refractive index core and low refractive index cladding that transmits light.

OSI — Open System Interconnect (Model for networking protocols).

OSS — Operations Support Systems.

Output — The useful power or signal delivered by a circuit or device.

Ozone — Extremely reactive form of oxygen, normally occurring around electrical discharges and present in the atmosphere in small but active quantities. In sufficient concentrations it can break down certain rubber insulations under tension (such as a bent cable).

Paired Cable — Cable with conductors cabled in groups of two.

PAL — Phase Alternation Line. PAL is a European color TV system featuring 625 lines per frame, 25 frames and 50 fields per second. Used mainly in Europe, China, Malaysia, Australia, New Zealand, the Middle East, and parts of Africa. PAL-M is a Brazilian color TV system with 525 lines per frame, 30 frames and 60 fields per second.

Parallel Circuit — A circuit in which the identical voltage is presented to all components, with current dividing among the components according to the resistances or the impedances of the components.

Parallel Digital — Digital information that is transmitted in parallel form. The digits are sent on separate conductors rather than sequentially on one transmission line (serial). Often used informally to refer to parallel digital television signals.

PASP — Polyethylene Aluminum Steel Polyethylene. Provides additional lightning and gopher protection.

Patchcord — A flexible piece of cable terminated at both ends with plugs. Used for interconnecting circuits on a patchboard, in a wiring closet or at the work area.

PC — Personal Computer.

PE — Polyethylene.

Peak — The maximum instantaneous value of a varying current or voltage.

Peel Strength — The force necessary to separate two adjacent conductors of a bonded or laminated flat cable.

Periodicity — The uniformly spaced cable impedance variations that result in addition of the reflections of a signal. The distance between them is the half wavelength of the most affected frequency. Multiples of that frequency are also affected. Even very slight variations, which appear over and over in a construction or installation, can have major effects on signal integrity because of periodicity.

Permanent Link — The horizontal cable including the workstation outlet and patch panel in the telecommunications closet plus two meters of cable at each end for testing. Limited to a maximum of 90 meters in TIA/EIA-568B.1.

PFA — Perfluoroalkoxy.

Phase — An angular relationship between waves.

Phase Shift — A change in the phase relationship between two alternating quantities.

Photodetector (Receiver) — Converts light energy to electrical energy. The silicone photo diode is most commonly used for relatively fast speeds and good sensitivity in the 0.75 micron to 0.95 micron wavelength region. Avalanche photodiodes (APD) combine the detection of optical signals with internal amplification of photo-current. Internal gain is realized through avalanche multiplication of carriers in the junction region. The advantage in using an APD is its higher signal-to-noise ratio, especially at high bit rates.

PHY — Physical (layer of OSI Reference Model). (See also *Physical Layer*.)

Physical Layer — The actual portion of a network that is used to physically connect computers of a network and over which the data is transmitted — the cable.

PIC — Plastic Insulated Conductor. Provides strong insulation.

Pickup — Any device which is capable of transforming a measurable quantity of intelligence (such as sound) into relative electrical signals (e.g. a microphone).

Pico — One-trillionth.

Picofarad — One trillionth of a farad. A micromicrofarad. Abbreviated pF in modern usage or mmF in earlier usage.

Pin-diode — A photodetector used to convert optical signals to electrical signals in a receiver. (See also *Photodetector*.)

Pitch — Nominal distance from center-to-center of adjacent conductors within a cable. When conductors are flat, pitch is usually measured from the reference edge of a conductor to the reference edge of the adjacent conductor. Spacing.

Planar Cable — Also referred to as flat and/or ribbon cable. Any cable with two or more parallel conductors in the same plane encapsulated by insulating material.

Plastic — High polymeric substances, including both natural and synthetic products that are capable of flowing under heat and pressure, called thermoplastics. Unlike rubber and other thermoset compounds, plastics can be remelted and reused.

Plasticizer — A chemical added to plastics to make them softer and more flexible.

Plenum — A compartment or chamber to which one or more air ducts are connected and that forms part of the air distribution system. A description for a cable that passes the NFPA 262 (UL-910) CMP flame test requirements.

Plug — A male housing with male or female contacts.

Point-to-Point Wiring — Wiring that consists of continuous conductors terminated at each end to circuit destination.

Polarization — The orientation of a flat cable or a rectangular connector (e.g. for gray flat cable), the colored edge indicating the number one conductor.

Polybutadiene — A type of synthetic rubber often blended with other synthetic rubbers to improve their properties.

Polyethylene (PE) — A thermoplastic material having excellent electrical properties. Low dielectric constant, a stable dielectric constant over all frequencies, very high insulation resistance. In terms of flexibility, polyethylene can be rated stiff to very hard, depending on molecular weight and density – low density being the most flexible and the high-density, high-molecular weight formulation being very hard. Moisture resistance is rated excellent.

Polymer — A substance made of many repeating chemical units or molecules. The term polymer is often used in place of plastic, rubber or elastomer.

Polyolefin — Any of the polymers and copolymers of the ethylene family of hydrocarbons, such as polyethylene and polypropylene.

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Glossary of Terms

Polypropylene (PP) — A thermoplastic similar to polyethylene but stiffer and having a higher softening point (temperature). This material is primarily used as an insulation material. Typically, it is harder than polyethylene. This makes it suitable for thin wall insulations. The dielectric constant is 2.25 for solid and 1.55 for cellular designs.

Polyurethane (PUR) — Broad class of polymers noted for good abrasion and solvent resistance. Can be in solid or cellular form. This thermoplastic material is used primarily as a cable jacket material. It has excellent oxidation, oil, and ozone resistance. Some formulations also have good flame resistance. It is a hard material with excellent abrasion resistance. It has outstanding memory properties, making it an ideal jacket material for retractile cords.

Polyvinyl Chloride (PVC) — A general purpose thermoplastic used for wire and cable insulation and jackets.

Portable Cordage — Cable with two or more twisted conductors for flexible applications. Also called flexible cord.

POTS — Plain Old Telephone Service. Sometimes used in discussions of new telephone technologies in which the question of whether and how existing voice transmission for ordinary telephone communication can be accommodated. For example, DSL and ISDN provide part of their channels for POTS, while using most of their bandwidth for digital data transmission.

Potting — Sealing by filling with a substance to exclude moisture.

Power — The amount of work per unit of time. Usually expressed in watts. Power equals the product of voltage and current ($P = V \times I$).

Power Loss — The difference between the total power delivered to a circuit, cable or device and the power delivered by that device to a load.

Power Ratio — The ratio of power appearing at the load to the input power.

PP — Polypropylene.

PPP — Point-to-Point Protocol.

Precision Video — Video coaxial cables having very tight electrical tolerances in impedance, velocity of propagation, attenuation and return loss. Used in high quality applications such as live broadcast in network studios and pre- or post-production facilities.

Premise Cabling — Refers to the entire cabling system used for voice, data, video and power on a user's premise. For Local Area Networks, the cabling of choice includes unshielded twisted pairs (UTP), fiber optic and coaxial cables. Of these, the UTP market is the largest, with greatest demand for cables with four pairs that meet certain standards of performance, such as Category 5 and Category 5e.

PRI — Primary Rate Interface ISDN.

Prop 65 — See *California Proposition 65*.

Propagation Delay — Time required for a signal to pass from the input to the output of a device.

PSAELFEXT — Power sum alien equal level far-end crosstalk is a computation of the unwanted signal coupling between pairs in cabling in close proximity from multiple transmit signals at the near-end into another pair measured at the far-end, and relative to the received signal level.

PSAFEXT — Power sum alien far-end crosstalk loss is a computation of the unwanted signal coupling between pairs in cabling in close proximity from multiple transmit signals at the near-end into another pair measured at the far-end.

PSANEXT — Power sum alien near-end crosstalk loss is a computation of the unwanted signal coupling between pairs in cabling in close proximity from multiple transmit signals at the near-end into a pair measured at the near-end.

Pseudo Random NRZ — A wave form of binary signals that may be used in a computer system. It is called NRZ, Non-Return to Zero, because the voltage does not return to zero after each bit.

PSTN — Public Switched Telephone Network.

Pulse — A current or voltage which changes abruptly from one value to another and back to the original value in a finite length of time. Used to describe one particular variation in a series of wave motions.

Put-up — Packaging of finished wire or cable.

PVC — Polyvinyl Chloride. (See also *Polyvinyl Chloride*.)

PVDF — Polyvinylidene Fluoride.

QAM — Quandrature Amplitude Modulation.

QOS — Quality of Service.

QPSK — Quaternary Phase Shift Keying or Quadrature PSK.

Quad — A four conductor cable. Also called star quad.

R — Symbol for resistance.

Radio Frequency (RF) — Radio Frequency. Includes frequencies from a few kilohertz to several gigahertz. Used to transmit information from point to point over the airwaves or cable.

RAM — Random Access Memory.

Rated Temperature — The maximum temperature at which an electric component can operate for extended periods without loss of its basic properties.

Rated Voltage — The maximum voltage at which an electric component can operate for extended periods without undue degradation or safety hazard.

RDC — Regional Data Center.

Reactance — A measure of the combined effects of capacitance and inductance on an alternating current. The amount of such opposition varies with the frequency of the current. The reactance of a capacitor decreases with an increase in frequency; the opposite occurs with an inductance.

Receiver — A unit that converts an RF signal to another type of signal (e.g. radio, television). Also refers to an electronic package that converts light energy to electrical energy in a fiber optic system. (See also *Photodetector*.)

Receptacle — A female housing with male or female contacts.

Reference Edge — Edge of cable or conductor from which measurements are made, such as in flat cable. Sometimes indicated by a thread, identification stripe or printing. Conductors are usually identified by their sequential position from the reference edge, with number one conductor closest to this edge.

Reflection — The change in direction (or return) of waves striking a surface. For example, electromagnetic energy reflections can occur at an impedance mismatch or variation in a transmission line, causing standing waves.

Reflection Loss — The part of a signal which is lost due to reflection of power at a line discontinuity.

Refractive Index — The ratio of light velocity in a vacuum to its velocity in the transmitting medium.

Registration — Alignment of one object with relation to another. In flat cables it involves aligning conductors with contacts or solder pads. Also called register.

Repeater — A receiver and transmitter combination used to regenerate an attenuated signal.

Resistance — In DC circuits, the opposition a material offers to current flow, measured in ohms. In AC circuits, resistance is the real component of impedance, and may be higher than the value measured at DC.

Resonance — An AC circuit condition in which inductive and capacitive reactances interact to cause a minimum or maximum circuit impedance.

Restricted Flame Retardants — Refers to the EU directive 2003/11/EC (6-FEB-2003), which bans the use of Penta- and Octa- BDE compounds. Belden is currently using these substances in certain CPE jacket materials only, and plans to phase out usage by January 2006.

Restriction of Hazardous Substances (RoHS) — Refers to the EU directive 2002/95/EC (27-JAN-2003) which bans the use of certain substances as of July 2006. The following items are of primary concern in cables, namely: Asbestos and its compounds, Cadmium and its compounds, Chromium VI and its compounds, Lead and its compounds, Mercury and its compounds, and Polybrominated Biphenyls (pbbs) and their ethers/oxides (PBDEs, PBBEs). Contact Belden Customer Service or visit www.belden-emea.com for product specific details.

Retractile Cord — A cord having specially treated insulation or jacket so that it will retract like a spring. Retractability may be added to all or part of a cord's length.

Return Loss — Measure of signal reflections from a cable or device with a fixed, standard reference impedance on the measuring equipment. Expressed in decibels (dB).

RF — Radio Frequency.

RFI — Radio Frequency Interference.

RFP — Request for Proposals.

RG/U — RG is the abbreviation for radio guide, a military designation for a coaxial cable, and U stands for universal.

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Glossary of Terms

RGB — Abbreviation for the three parts of color video signal: red, green and blue. Also refers to multi-coaxial cables carrying these signals.

Ribbon Cable — A flat cable made with parallel round conductors in the same plane. Also referred to as planar and/or flat cable. Any cable with two or more parallel conductors in the same plane encapsulated by insulating material.

Ringing Out — The process of locating or identifying specific conductor paths by means of passing a current through selected conductors.

Riser — The system of pathways that are provided to run riser cables from one floor to another.

RJ-45 — Modular telecommunications connector.

RL — Return Loss.

RMS — Root-mean-square.

Rope Strand — A conductor composed of groups of twisted strands.

Round Conductor Flat Cable (RCFC) — A cable made with parallel round conductors in the same plane.

Routing — The path followed by a cable or conductor.

RSVP — Resource Reservation Protocol.

RTP — Real-Time Transport Protocol.

Rubber (Wire Insulation) — A general term used to describe wire insulations made of thermosetting elastomers, such as natural or synthetic rubbers, neoprene, Hypalon® butyl rubber and others.

RUS 1755.900 (*aka* PE90) — A specification for fiber optic cables currently in high demand by the telecommunications industry. Only a handful of U.S. manufacturers can produce fiber optic cables to this specification. Belden is one of them.

S-CDMA — Synchronous Code Division Multiple Access.

S-HDSL — Single-pair High bit-rate Digital Subscriber Line.

SAE — Society of Automotive Engineers.

SBR — A copolymer of styrene and butadiene. Also GR-S or Buna-S. Most commonly used type of synthetic rubber.

ScTP — Screened Twisted Pair. Premise network cable with an overall foil shield.

SDI — Serial Digital Interface.

SDSL — Symmetric Digital Subscriber Line.

SEALPIC — Aluminum Shield. Sealed Aluminum.

Self-extinguishing — The characteristic of a material that extinguishes its own flame after the igniting flame is removed.

Self-Support — Undulated core with aluminum, polyethylene and a support strand. For aerial use.

Semiconductor — In wire industry terminology, a material possessing electrical conductivity that falls somewhere between that of conductors and insulators. Usually made by adding carbon particles to an insulator. Not the same as semiconductor materials such as silicone, germanium, etc. Used for making transistors and diodes.

Semi-Solid Dielectric — A coaxial design in which a monofilament of plastic holds the center conductor in place in a hollow plastic tube allowing the remainder of the dielectric to be air. Typical velocities of up to 84% can be achieved in this design.

Separator — Pertaining to wire and cable, a layer of insulating material such as textile, paper, Mylar®, etc., which is placed between a conductor and its dielectric, between a cable jacket and the components it covers, or between various components of a multiple-conductor cable. It can be utilized to improve stripping qualities, flexibility or can offer additional mechanical or electrical protection to the components it separates.

Serial Digital — Digital information that is transmitted in serial form. SDI informally refers to serial digital television signals that conform to the SMPTE 259M standard.

Serial Digital Interface — Informally refers to serial digital television signals that conform to the SMPTE 259M standard.

Series Circuit — A circuit in which the components are arranged end to end to form a single path for current.

Serve Shield — A metallic shield consisting of several strands of wire, helically wound and laid parallel around a cable core in only one direction, as opposed to the two directions with interleaving of a braid shield.

Shannon Capacity — A theoretical calculation of the maximum available data-rate for a channel.

Sheath — Pertaining to wire and cable, the outer protective covering, also called jacket, that may also provide additional insulation.

Shield — A tape, serve or braid (usually copper, aluminum or other conductive material) placed around or between electric circuits or cables or their components, to prevent signal leakage or interference.

Shield Coverage — The optical percentage of a cable actually covered by shielding material.

Shield Effectiveness — The relative ability of a shield to screen out undesirable interference or prevent signal leakage out of the cable. Frequently confused with the term shield coverage.

Shield Percentage — The percentage of physical area of a circuit or cable actually covered by shielding material.

Shielded Armored — Types of Shield: Aluminum, Aluminum/Steel and Copper. Cables that require some sort of shield.

Signal — Any visible or audible indication which can convey information. Also, the information conveyed through a communication system.

Signal Conductor — A conductor in a transmission cable or line that carries electrical signals.

Signal to Noise Ratio — Ratio of desired signal to undesired signal (noise) that is often expressed in decibels. Commonly used interchangeably with Attenuation Crosstalk Ratio (ACR) – the difference between attenuation and crosstalk, measured in decibels (dB), at a given frequency. Important characteristic in networking transmission to assure that signal sent down a twisted pair is stronger at the receiving end of the cable than are any interference signals imposed on that same pair by crosstalk from other pairs.

Silicone — A material made from silicone and oxygen. Can be in thermosetting elastomer or liquid form. The thermosetting elastomer form is noted for high heat resistance. This is a very soft thermoset insulation. It has excellent electrical properties plus ozone resistance, low moisture absorption, weather resistance, and radiation resistance. It typically has low mechanical strength and poor scuff resistance.

Single-mode Fiber — An optical fiber wave guide in which only one mode will propagate. The fiber has a very small core diameter of approximately 8 micro meters. It permits signal transmission at extremely high bandwidths and is generally used with laser diodes.

Single-ended — Unbalanced, such as grounding one side of a circuit or transmission line.

Sinusoidal — Varying in proportion to the sine of an angle or time function. Ordinary alternating current is sinusoidal.

SIS — Single conductor having synthetic thermosetting insulation of heat-resistant, moisture-resistant, flame-retarding grade. Also made with chemically cross-linked polyethylene insulation. Used for switched wiring only.

Skew Rays — A ray that does not intersect the fiber axis. Generally, a light ray that enters the fiber core at a very high angle.

Skin Effect — The tendency of alternating current to travel only on the surface of a conductor as its frequency increases.

SMA — Subminiature A connector commonly used in VHF, UHF, RF and microwave applications.

SMB — Subminiature B connector snap-mount connector.

SMC — Subminiature C connector.

Snake Cable — A name given to individually shielded or individually shielded and jacketed, multi-pair audio cables. Used in the connection of multi-channel line level audio equipment.

SNMP — Simple Network Management Protocol.

SNR — Signal to Noise Ratio.

SONET — Synchronous Optical Network.

Source — The device from which a signal is marked into a cable. The device (usually LED or laser) used to convert an electrical information-carrying signal into a corresponding optical signal for transmission by an optical wave guide.

Spacing — The distance between the centers of two adjacent conductors. Pitch.

Span — The distance between the center of the first conductor and the center of the last conductor in a flat cable.

Spectral Bandwidth — The difference between wavelengths at which the radiant intensity of illumination is half its peak intensity.

Spectrum — Frequencies that exist in a continuous range and have a common characteristic. A spectrum may be inclusive of many spectrums (e.g. the electromagnetic radiation spectrum includes the light spectrum, radio spectrum, infrared spectrum, etc.).

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Glossary of Terms

Speed of Light (c) — Approximately 2.998 x 10^8 meters per second.

SpiralFlex™ — Belden's patent-pending cable design for the 10GX® Cable which increases randomization and pair separation, enabling transmission rates of 625 MHz and data-rates of 10Gb/s.

Splitter — A device that sends the signal from one source to two or more receiving devices by allocating a portion of the signal to each receiver (e.g. cable TV splitter). A device that divides a high bandwidth signal into two or more lower bandwidth signals, each carrying a selected frequency range. Users connected to a DSL line, for example, may have a splitter installed at their home or business to divide the incoming signal into low frequencies to send to their phone and high frequencies for data to the computer.

SRL — Structural Return Loss.

Stalpeth (DUCTPIC) — Aluminum steel bonded to the polyethylene jacket. Helps minimize jacket damage.

Standing Wave — The stationary pattern of waves produced by two waves of the same frequency traveling in opposite directions on the same transmission line. The existence of voltage and current maxima and minima along a transmission line is a result of reflected energy from an impedance mismatch.

Standing Wave Ratio (SWR) — A ratio of the maximum amplitude to the minimum amplitude of a standing wave stated in current or voltage amplitudes. (See also *Standing Wave*.)

Star Quad — Term given to 4-conductor microphone cables where the conductors are spiraled together, which, when connected in an x configuration, greatly increases common mode noise rejection.

Static Charge — An electrical charge that is bound to an object. An unmoving electrical charge.

Stay Cord — A component of a cable, usually of high tensile strength, used to anchor the cable ends at their points of termination and keep any pull on the cable from being transferred to the electrical conductors.

Step Insulated — Process of applying insulation in two layers. Typically used in shielded networking cables such that the outer layer of insulation can be removed and remaining conductor and insulation can be terminated in a RJ-45 type connector.

Step-index Fiber — An optical fiber in which the core is of a uniform refractive index with a sharp decrease in the index of refraction at the core/cladding interface.

STP — Shielded Twisted Pair(s).

Strain Gage — A device for determining the amount of strain (change in dimensions) when a stress is applied.

Strand — A single uninsulated wire.

Stranded Conductor — A conductor composed of several strands or groups of uninsulated wires.

Strip — To remove insulation from a cable or wire.

Stripping Groove — The controlled thinning of the lamination between two conductors in a flat cable to allow easy hand separation. Tear feature.

Structural Return Loss — Magnitude of the internal cable reflections, measured in decibels (dB), relative to the actual cable impedance, not the system impedance. Measure of signal reflections caused by the structure of the cable without the additional reflections from any impedance mismatch between the cable and the measuring equipment. Measure of internal cable reflections using a reference impedance in the measuring equipment that is adjusted to the nominal or average impedance of the cable. (See also *Return Loss*.)

Surge — A temporary and relatively large increase in the voltage or current in an electric circuit or cable. Also called transient.

S-Video — Transmission method for video in which the two parts of the signal, the chrominance and luminance, are sent on separate transmission lines to provide better picture quality.

Sweep Test — Testing a characteristic of a cable or device across a range of frequencies. In cable, it usually implies return loss or structural return loss. (See also *Return Loss* or *Structural Return Loss*.)

TCP/IP — Transmission Control Protocol/Internet Protocol.

TDMA — Time Division Multiple Access.

Tear Feature — The controlled thinning of the lamination between two conductors in a flat cable to allow easy hand separation.

Teflon® — DuPont Company trademark for fluorocarbon resins.

Tefzel® — DuPont Company trademark for a ETFE. Fluorocopolymer thermoplastic material which has excellent electrical properties, heat resistance, chemical resistance, toughness, radiation resistance and flame resistance.

Temperature Rating — The maximum temperature at which the insulating material or cable may be used in continuous operation without change in its basic properties.

Tensile Strength — The pull stress required to break a bare wire.

TFE — Tetrafluoroethylene. A thermoplastic material with good electrical insulating properties and chemical and heat resistance.

Thermal Rating — The temperature range in which a material will perform its function without undue degradation.

Thermoplastic — A material which will soften, flow or distort appreciably when subjected to sufficient heat and pressure. Examples are polyvinyl chloride and polyethylene.

Thermoset — A material which will not soften, flow or distort appreciably when subjected to heat and pressure. Vulcanizable. Examples are rubber and neoprene.

TIA — Telecommunications Industry Association. Body which authored the TIA/EIA-568-B Commercial Building Telecommunications Wiring Standard in conjunction with EIA.

TIA/EIA-568-B — Commercial Building Telecommunications Wiring Standard defines a generic telecommunications wiring system for commercial buildings that will support a multi-product, multi-vendor environment. It also provides direction for the design of telecommunications products for commercial enterprises.

Tinsel — A type of electrical conductor composed of a number of tiny threads, each thread having a fine, flat ribbon of copper or other metal closely spiraled about it. Used for small size cables requiring limpness and extra-long flex life.

Topcoated Wire — Conductor produced by applying a layer of tin over a stranded bare copper conductor holding the strands together allowing easier soldering and preventing the fraying of strands.

TP-PMD — Twisted Pair-Physical Medium Dependent.

Transducer — A device for converting one form of energy to another, such as mechanical energy to electrical energy.

Transfer Impedance — For a specified cable length, transfer impedance relates to a current on one surface of a shield to the voltage drop generated by this current on the opposite surface of the shield. Transfer impedance is used to determine shield effectiveness against both ingress and egress of interfering signals. Cable shields are normally designed to reduce the transfer ofinterference – hence, shields with lower transfer impedance are more effective than shields with higher transfer impedance.

Transmission Line — An arrangement of two or more conductors, such as a coaxial cable or a waveguide used to transfer signal energy from one location to another.

Transmission Line Cable — Two or more conductors placed within a dielectric material in such a way as to control the electrical characteristics.

Transmitter — Equipment that generates RF or electrical signals for transmission through the air or space or over a transmissions line. Also refers to the electronic package that converts electrical energy to light energy in a fiber optic system.

Triad Cable — Cable with three twisted conductors.

Triaxial Cable — A cable construction having a conductor and two isolated braid shields, all insulated from each other. A coaxial cable with a second braid applied over an inner jacket and an outer jacket applied over the outer braid. Commonly used in television camera systems.

Triboelectric Noise — Noise generated in a shielded cable due to variations in capacitance between the shield and conductors as the cable is flexed.

Trunk Cable — In a CATV system, the transmission cable from the head end (signal pickup) to the trunk amplifier. Also called a feeder cable.

Turn-key — A contractual arrangement in which one party designs and installs a system and turns over the keys to another party who will operate the system.

TVRO — TV Receive only.

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Glossary of Terms

Twin-lead — A transmission line having two parallel conductors separated by insulating material. Line impedance is determined by the diameter and spacing of the conductors and the insulating material and is usually 300 ohms for television receiving antennas.

Twinax Cable — Cable with two twisted conductors with established electrical properties (one pair = two conductors sharing a common axis = twinax).

Twisted Pair — Two lengths of insulated conductors twisted together. The traditional method for connecting home and many business computers to the telephone company. Gets its name because two insulated copper wires are twisted together, both of which are needed for each connection. In commercial environments, performance of data transmission can be improved by adding a composite tape to the wire. This is known as shielded twisted pair.

Two-pair Premise Wiring — Refers to the two pairs of voice grade (low bandwidth) twisted pair wire installed in most homes since the 1950s. The extra pair makes it possible for you to add another line when you need it.

UHF — Ultra High Frequency. International Telecommunications Union designation for the 300 to 3000 MHz band of frequencies.

UL — Underwriters Laboratories. A nonprofit organization which tests and verifies construction and performance of electronic parts and equipment, including wire and cable.

UM — Unsoldered Mechanical Protection. Additional steel and polyethylene over inner polyethylene jacket. Provides additional mechanical protection.

Unbalanced Line — A transmission line in which voltages on the two conductors are unequal with respect to ground. A coaxial cable is a common type of unbalanced line.

Unilay — A conductor with more than one layer of helically laid wires with the direction of lay and length of lay the same for all layers.

UTP — Unshielded Twisted Pair(s).

V — Volt. (See also *Volt*.)

VA — Volt-ampere. Measure of apparent power in a reactive circuit found by multiplying the voltage by the current.

VC/MTM — Variable Constellation/Multi-Tone Modulation.

VDSL — Very high bit rate Digital Subscriber Line.

Velocity of Propagation (VP) — The transmission speed of electrical energy in a length of cable compared to speed of light in free space. Usually expressed as a percentage.

VHF — Very High Frequency. International Telecommunications Union designation for the 30 to 300 MHz band of frequencies.

VHS — Abbreviation for Video Home System.

Video — Pertaining to picture information in a television system.

VLF — Very Low Frequency. International Telecommunications Union designation for the 3 to 30 kHz band of frequencies.

Volt — A unit of electromotive force.

Voltage — Electrical potential of electromotive force expressed in volts.

Voltage Drop — The voltage developed across a component or conductor by the current flow through the resistance or impedance of the component or conductor.

Voltage Rating — The highest voltage that may be continuously applied to a cable construction in conformance with standards or specifications.

Voltage Standing Wave Ratio — Ratio of maximum voltage of the standing wave to the minimum voltage of the standing wave. (See also *Standing Wave Ratio*.)

VSWR — Voltage Standing Wave Ratio.

VW-1 — A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test, formerly designed FR-1.

W — Symbol for watt or wattage.

Wall Thickness — The thickness of an insulation or jacket.

WAN — Wide Area Network.

Watt — A unit of electrical power.

Wave Form — A graphical representation of a varying quantity. Usually, time is represented on the horizontal axis, and the current or voltage value is represented on the vertical axis.

Wavelength — The distance between positive peaks of a signal. As the frequency increases, and waves get closer together, the wavelength decreases.

WCS — Wireless Communications Service.

Wire — A conductor, either bare or insulated.

Wireless — Really a misnomer. Belden makes a variety of cables needed to build the transmitting infrastructure required to support wireless devices. Wireless is a technology that allows a device (phone, pager or satellite dish) to be unconnected from the transmission point of a voice, video or data signal. The transmission infrastructure required to support such wireless devices is a wired platform of transmission towers and stations that communicate point to point and to telephone central offices.

X — Symbol for reactance.

X-Bar™ — The X-Bar is a plastic device that is used for installing 10GX® Cable onto a 10GX Module, optimizing the termination process and practically eliminating performance variation due to termination variances.

XLPE — Cross-linked polyethylene is a thermoset and is cross-linked by radiation, thermally, or by moisture. XLPE offers a wide range of operating temperatures, excellent deformation, abrasion, and flame resistance. XLPE can be formulated with halogenated or non-halogenated flame retardant packages. Some grades are also rated XHHW-2 which offers excellent wet electrical properties.

XLR — A multi-pin audio connector (typically 3 pins) used in microphone, line level and snake cable audio connections.

XPE-PVC — Expanded Polyethylene-Polyvinyl Chloride. Fire retardant.

Z — Symbol for impedance.

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23 Technical Information



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The information, graphs, tables and illustrations presented in this section are provided to assist Belden customers with the selection of the most appropriate cable for their application. For further assistance, contact Belden technical support at: +31-77-3875-414.

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Conductor

Table 1: Solid Copper Wire, American Wire Gage

Gage (AWG)	Nominal OD			Nominal Circular MIL Area	Nominal Weight		Nominal Resistance @ 68°F (20°C)	
	inch	mm	mm^2		lbs./1000 ft.	kg/km	Ω/1000 ft.	Ω/km
40	0.0031	0.079	0.005	9.61	0.02993	0.04	1080.0	3542.40
39	0.0035	0.089	0.006	12.20	0.03774	0.06	847.8	2780.78
38	0.0040	0.102	0.008	15.72	0.04759	0.07	648.6	2127.41
37	0.0045	0.114	0.010	19.83	0.0613	0.09	512.1	1679.69
36	0.0050	0.127	0.013	25.00	0.07568	0.11	414.8	1360.54
35	0.0056	0.142	0.016	31.52	0.09542	0.14	331.0	1085.68
34	0.0063	0.160	0.020	39.75	0.1203	0.18	260.9	855.75
33	0.0071	0.180	0.025	50.13	0.1517	0.23	206.9	678.63
32	0.0080	0.203	0.032	63.21	0.1913	0.28	164.1	538.25
31	0.0089	0.226	0.040	79.7	0.2413	0.36	130.1	426.73
30	0.0100	0.254	0.051	100.5	0.3042	0.45	103.2	338.50
29	0.0113	0.287	0.064	126.7	0.3836	0.57	81.83	268.40
28	0.0126	0.320	0.080	159.8	0.4837	0.72	64.90	212.87
27	0.0142	0.361	0.102	201.5	0.6100	0.91	51.47	168.82
26	0.0159	0.404	0.127	253.0	0.7692	1.14	40.81	133.86
25	0.0179	0.455	0.163	320.4	0.9699	1.44	32.37	106.17
24	0.0201	0.511	0.203	404.0	1.223	1.82	25.67	84.20
23	0.0226	0.574	0.259	511.5	1.542	2.29	20.36	66.78
22	0.0253	0.643	0.322	640.4	1.945	2.89	16.14	52.94
21	0.0285	0.724	0.412	812.1	2.452	3.65	12.80	41.98
20	0.0320	0.813	0.514	1020.0	3.092	4.60	10.15	33.29
19	0.0359	0.912	0.653	1200.0	3.899	5.80	8.051	26.41
18	0.0403	1.02	0.816	1620.0	4.917	7.32	6.385	20.94
17	0.0453	1.15	1.039	2050.0	6.200	9.22	5.064	16.61
16	0.0508	1.29	1.300	2583.0	7.818	11.63	4.016	13.17
15	0.0571	1.45	1.651	3260.0	9.858	14.67	3.184	10.44
14	0.0641	1.63	2.070	4107.0	12.43	18.49	2.525	8.28
13	0.0720	1.83	2.630	5178.0	15.68	23.33	2.003	6.57
12	0.0808	2.05	3.290	6530.0	19.77	29.41	1.588	5.21
11	0.0907	2.30	4.155	8234.0	24.92	37.08	1.260	4.13
10	0.1019	2.60	5.230	10380.0	31.43	46.76	0.9989	3.28

* AWG 10 through 30 per UL Subject 13.

Information from National Bureau of Standards Copper Wire Tables – Handbook 100.

Unparalleled Performance

Belden is one of only a very few cable manufacturers to draw and anneal its own conductors. This is a time-consuming process, but it allows us to ensure signal integrity, as well as proper physical characteristics.

In addition, the standards under which we design and manufacture our fiber optic cabling are among the strictest in the industry. The result is a comprehensive offering of products which give unparalleled performance and can satisfy your most demanding operating and environmental challenges.

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Conductor

Table 2: Stranded Copper Wire, American Wire Gage

Gage (AWG)	Stranding (Nom. AWG)	Min. Average CD of Strand	Approximate OD			ASTM Min. Circular MIL Area	Min. Weight		Max. Resistance @ 68°F (20°C)	
			inch	mm	mm^2		lbs./1000 ft.	kg/km	Ω/1000 ft.	Ω/km
36	7x44	0.0019	0.006	0.152	0.014	25	0.076	0.11	414.8	1360.54
34	7x42	0.0024	0.0075	0.191	0.022	39.7	0.121	0.18	260.9	855.75
32	7x40	0.0030	0.0093	0.236	0.034	64	0.195	0.29	164.1	538.25
	19x44	0.0018	0.010	0.254	0.039	64	0.195	0.29	164.1	538.25
30	7x38	0.0038	0.012	0.305	0.056	100	0.304	0.45	112.0	367.36
	19x42	0.0023	0.012	0.305	0.060	100	0.304	0.45	112.0	367.36
28	7x36	0.0048	0.015	0.381	0.071	159	0.484	0.72	70.7	231.90
	19x40	0.0029	0.016	0.406	0.093	159	0.484	0.72	70.7	231.90
27	7x35	0.0054	0.017	0.432	0.111	202	0.614	0.91	55.6	182.37
26	7x34	0.0060	0.019	0.483	0.140	253	0.770	1.15	44.4	145.63
	10x36	0.0050	0.021	0.533	0.127	253	0.770	1.15	44.4	145.63
	19x38	0.0036	0.020	0.508	0.153	253	0.770	1.15	44.4	145.63
24	7x32	0.0076	0.024	0.610	0.226	404	1.229	1.83	27.7	90.86
	10x34	0.0064	0.024	0.610	0.200	404	1.229	1.83	27.7	90.86
	19x36	0.0046	0.024	0.610	0.239	404	1.229	1.83	27.7	90.86
	42x40	0.0031	0.023	0.584	0.201	404	1.229	1.83	27.7	90.86
22	7x30	0.0096	0.030	0.762	0.352	640	1.947	2.90	17.5	57.40
	19x34	0.0058	0.031	0.787	0.380	640	1.947	2.90	17.5	57.40
	26x36	0.0050	0.030	0.762	0.327	640	1.947	2.90	17.5	57.40
20	7x28	0.0126	0.038	0.965	–	1020	3.103	4.62	10.9	35.75
	10x30	0.0101	0.037	0.940	0.612	1020	3.103	4.62	10.9	35.75
	19x32	0.0073	0.037	0.940	0.612	1020	3.103	4.62	10.9	35.75
	26x34	0.0063	0.036	0.914	0.520	1020	3.103	4.62	10.9	35.75
	42x36	0.0049	0.038	0.965	–	1020	3.103	4.62	10.9	35.75
18	7x26	0.0152	0.048	1.22	0.891	1620	4.93	7.33	6.92	22.70
	16x30	0.0101	0.047	1.19	0.808	1620	4.93	7.33	6.92	22.70
	19x30	0.0092	0.049	1.24	0.957	1620	4.93	7.33	6.92	22.70
	42x34	0.0062	0.047	1.19	0.819	1620	4.93	7.33	6.92	22.70
	65x36	0.0050	0.047	1.19	–	1620	4.93	7.33	6.92	22.70
16	7x24	0.0192	0.060	1.52	1.420	2580	7.85	11.68	4.35	14.27
	19x29	0.0117	0.058	1.47	1.216	2580	7.85	11.68	4.35	14.27
	26x30	0.0100	0.059	1.50	1.310	2580	7.85	11.68	4.35	14.27
	65x34	0.0063	0.059	1.50	1.300	2580	7.85	11.68	4.35	14.27
	105x36	0.0050	0.059	1.50	1.365	2580	7.85	11.68	4.35	14.27
14	7x22	0.0242	0.076	1.93	–	4110	12.50	18.60	2.73	8.95
	19x26	0.0147	0.071	1.80	–	4110	12.50	18.60	2.73	8.95
	42x30	0.0099	0.075	1.91	–	4110	12.50	18.60	2.73	8.95
	105x34	0.0063	0.075	1.91	–	4110	12.50	18.60	2.73	8.95
12	7x20	0.0305	0.096	2.44	3.610	6530	19.86	29.55	1.71	5.61
	19x25	0.0185	0.093	2.36	3.070	6530	19.86	29.55	1.71	5.61
	65x30	0.0100	0.095	2.41	3.270	6530	19.86	29.55	1.71	5.61
	165x34	0.0063	0.095	2.41	3.300	6530	19.86	29.55	1.71	5.61
10	37x26	0.0167	0.115	2.92	4.710	10380	31.58	46.98	1.08	3.54
	65x28	0.0126	0.120	3.05	–	10380	31.58	46.98	1.08	3.54
	105x30	0.0099	0.118	3.00	–	10380	31.58	46.98	1.08	3.54

* AWG 10 through 30 per UL subject 13.

Belden has standardized on the stranded conductors used in the design of all Belden products.

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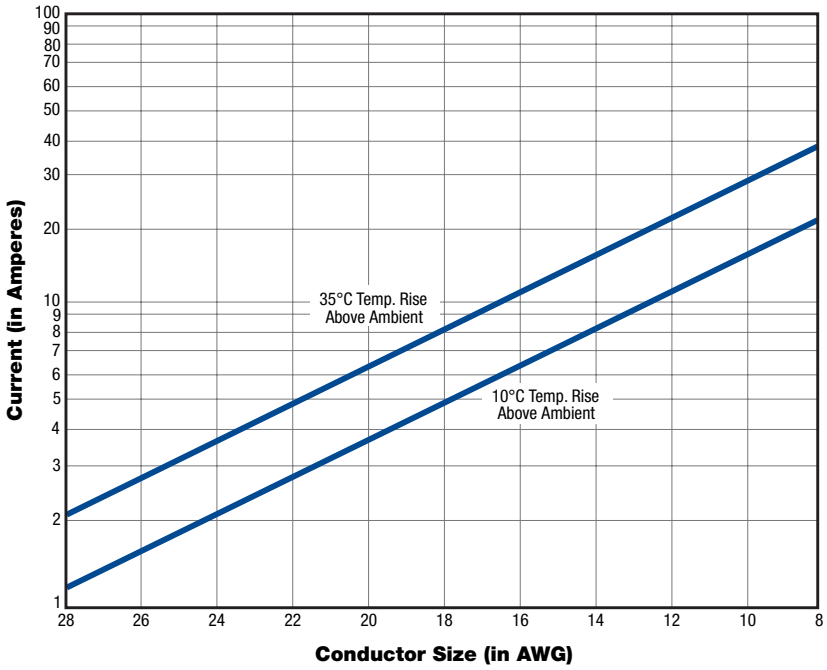
Conductor

Table 3: Current Ratings for Belden Electronic Cables

The maximum continuous current rating for an electronic cable is limited by conductor size, number of conductors contained within the cable, maximum temperature rating of the cable, and environmental conditions such as ambient temperature and air flow. To use the current capacity chart, first determine conductor size, temperature rating, and number of conductors from the applicable product description for the cable of interest.

Next, find the current value on the chart for the proper temperature rating and conductor size. To calculate the maximum current rating/conductor, multiply the chart value by the appropriate conductor factor. The chart assumes cable is surrounded by still air at an ambient temperature of 25°C. Current values are in RMS amperes and are valid for copper conductors only. For conditions other than specified, contact Belden technical support at +31-77-3875-414.

Note: Current ratings are intended as general guidelines for low power electronic communications and control applications. Current ratings for power applications generally are set by regulatory agencies such as UL, CSA, NEC, and others.



Current Rating

No. of Conductors*	Factor
1	1.6
2 to 3	1.0
4 to 5	0.8
6 to 15	0.7
16 to 30	0.5

* Do not count shields unless used as conductor.

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Conductor

Table 4: Metric/Imperial/AWG Equivalents
(Square Millimeters/Square Inches/Circular Mils/AWG)

mm²	sq. in.	Circular mils	AWG
1000	1.550	1974000	
975	1.511	1924700	
950	1.472	1875300	
925	1.434	1826000	
900	1.395	1776600	
875	1.356	1727300	
850	1.317	1677900	
825	1.279	1628600	
800	1.240	1579200	
775	1.201	1529900	
750	1.163	1480500	
725	1.124	1431200	
700	1.085	1381800	
675	1.046	1332500	
650	1.008	1283100	
625	0.969	1233800	
600	0.930	1184400	
575	0.891	1135100	
550	0.853	1085700	1000 MCM
525	0.814	1036400	
500	0.775	987000	
475	0.736	937700	
450	0.698	888300	
425	0.659	839000	
400	0.620	789600	750 MCM
375	0.581	740300	
350	0.542	690900	
325	0.504	641600	600 MCM
300	0.465	592200	
275	0.426	542900	500 MCM
250	0.388	493500	
225	0.349	444200	350 MCM
200	0.310	394800	
185	–	–	
175	0.271	345500	300 MCM
150	0.233	296100	
125	0.1938	246800	
120	–	211600	4/0
100	0.1550	197400	
95	0.1472	187530	
90	0.1395	177660	
–	–	167800	3/0
85	0.1317	167790	
80	0.1240	157920	
75	0.1163	148050	
70	0.1085	138180	
–	–	133100	2/0
65	0.1008	128310	
60	0.0930	118440	
55	0.0853	108570	
–	–	105600	1/0
50	0.0775	98700	
45	0.0698	88830	
–	–	83690	1
40	0.0620	78960	
35	0.0542	69090	
–	–	66360	2
30	0.0465	59220	
–	–	52620	3
25	0.0388	49350	
–	–	41740	4
20.0	0.0310	39480	
19.5	0.0302	38490	
19.0	0.0294	37510	
18.5	0.0287	36520	
18.0	0.0279	35530	
17.5	0.0271	34550	
17.0	0.0264	33560	
–	–	33090	5
16.5	0.0256	32560	
16.0	0.0248	31580	6
15.5	0.0240	30600	
15.0	0.0233	29610	
14.5	0.0225	28620	
14.0	0.0217	27640	
13.5	0.0209	26650	
–	–	26420	
13.0	0.0201	25660	
12.5	0.0194	24680	
12.0	0.0186	23690	
11.5	0.0178	22700	
11.0	0.0171	21710	
–	–	20820	7
10.5	0.0163	20730	
10.0	0.0155	19740	
9.5	0.01472	18753	
9.0	0.01395	17766	
8.5	0.01317	16779	
–	–	16510	8
8.0	0.01240	15792	
7.7	0.01163	14805	
7.0	0.01085	13818	
–	–	13090	9
6.5	0.01008	12831	
6.0	0.00930	11844	
5.5	0.00853	10857	
–	–	10380	10
5.00	0.00775	9870	
4.75	0.00736	9377	
4.50	0.00698	8883	
4.25	0.00659	8390	
–	–	8230	11
4.00	0.00620	7896	
3.75	0.00581	7403	
3.50	0.00542	6909	
–	–	6530	12
3.25	0.00504	6416	
3.00	0.00465	5922	
2.75	0.00426	5429	
2.63	–	5180	13
2.50	0.00388	4935	
2.25	0.00349	4422	
–	–	4110	14
2.00	0.00310	3948	
1.75	0.00271	3455	
1.65	–	3260	15
1.50	0.00233	2961	
–	–	2580	16
1.25	0.00194	2468	
–	–	2050	17
1.00	0.00155	1974	
0.90	0.00140	1777	
–	–	1620	18
0.75	0.00116	1481	
0.70	0.00109	1382	
0.65	–	1290	19
0.60	0.00093	1184	
–	–	1029	20
0.50	0.000775	987	

To Convert:	Multiply by:
Inches to millimeters	25.4
Millimeters to inches	0.03937

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Insulations and Jackets

Overview

Insulations

Belden expends a great amount of time and effort to formulate its own insulations. As a result, Belden insulations provide superior performance under a variety of hostile environmental conditions.

Among the insulations we utilize are:

- **Polyethylene**
- **Polyvinyl Chloride (PVC)**
- **Polypropylene**

Also available are:

- **Datalene®**
  For computer and data transmission. Datalene is crush resistant, lightweight, and offers good performance characteristics over a wide range of temperatures.
- **Teflon® Insulated Plenum & High-temperature Cables**
  For data communications, instrumentation/control, and other commercial and industrial applications. Plenum cables eliminate the need for conduit and reduce installation time.

Jackets

Belden electronic cables are manufactured in a wide selection of jacketing materials.

- **Polyvinyl Chloride**
- **Polyethylene**
- **Polyurethane**
- **Teflon®**
- **Tefzel®**
- **Neoprene**
- **EPDM**
- **Silicone rubber**
- **Natural rubber**

Special compounds and variations of standard compounds are used as well.

Teflon® and Tefzel® are DuPont trademarks.

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Insulations and Jackets

Typical Characteristics of Popular Insulation and Jacketing Compounds

EPDM

EPDM (ethylene-propylene-diene elastomer) is a chemically cross-linked elastomer with excellent flexibility at low and high temperatures (-55°C to 150°). It has good insulation resistance and dielectric strength, as well as excellent abrasion resistance and mechanical properties. EPDM also has better cut-through resistance than silicone rubber, which it replaces in some applications.

EPDM is compatible with most varnishes, but after the dip and bake cycle varnish tends to adhere to the insulation (because EPDM, unlike some rubber insulations, does not exude oils or waxes). As lead wires are pulled apart for termination, the varnish cracks, sometimes breaking the insulation.

To resolve this problem, a stearic solution is applied to the lead wire during the put-up process. This ensures that rigid varnish does not cause EPDM insulation to rupture when the wire is terminated.

Field evaluations by numerous users reveal that the coated EPDM has excellent varnish resistance at least equal to synthetic elastomers, cross-link polyethylene, or silicone glass braid in dip and bake systems.

Neoprene

The temperature range of this material can vary from -55°C to 90°C. The actual range would depend on the formulation used. Neoprene is both oil-resistant and sunlight-resistant, making it ideal for many outdoor applications. The most stable colors are Black, Dark Brown, and Gray. The electrical properties are not as good as other insulation materials. Because of this, thicker insulation should be used. Typical designs where this material is used are lead wire insulation and cable jackets.

Polyethylene (Solid and Foamed)

A very good insulation in terms of electrical properties. Low dielectric constant, a stable dielectric constant over all frequencies, very high insulation resistance. In terms of flexibility, polyethylene can be rated stiff to very hard, depending on molecular weight and density – low density being the most flexible, with high-density, high-molecular weight formulation being very hard. Moisture resistance is rated excellent. Black and specially formulated colored versions have excellent weather resistance. The dielectric constant is 2.3 for solid insulation and typically 1.64 for foam designs. Flame retardant formulations are available with dielectric constants ranging from about 1.7 for foam flame retardant to 2.58 for solid flame retardant polyethylene.

Polypropylene (Solid and Foam)

Similar in electrical properties to polyethylene. This material is primarily used as an insulation material. Typically, it is harder than polyethylene. This makes it suitable for thin wall insulations. UL maximum temperature rating may be 60°C, 80°C or 105°C. The dielectric constant is 2.25 for solid and typically 1.55 for foam designs.

Polyurethane

This material is used primarily as a cable jacket material. It has excellent oxidation, oil, and ozone resistance. Some formations also have good flame resistance. It is a hard material with excellent abrasion resistance. It has outstanding “memory” properties, making it an ideal jacket material for retractile cords.

PVC

Sometimes referred to as vinyl or polyvinylchloride. Extremely high or low temperature properties cannot be found in one formulation. Certain formulations may have -55°C to 105°C rating. Other common vinyls may have -20°C to 60°C. There are many formulations for the variety of different applications. The many varieties of PVC also differ in pliability and electrical properties. The price range can vary accordingly. Typical dielectric constant values can vary from 3.5 to 6.5.

Rubber

The description of rubber normally includes natural rubber and SBR compounds. Both of these materials can be used for insulations and jackets. There are many formulations of these basic materials. Each formulation is for a specific application. Some formulations are suitable for -55°C minimum, while others are suitable for 75°C maximum.

Silicone

This is a very soft insulation which has a temperature range from -80°C to 200°C. It has excellent electrical properties plus ozone resistance, low moisture absorption, weather resistance, and radiation resistance. It typically has low mechanical strength and poor scuff resistance.

Teflon®

This material has excellent electrical properties, temperature range and chemical resistance. It is not suitable where subjected to nuclear radiation and does not have good high voltage characteristics. FEP Teflon® is extrudable in a manner similar to PVC and polyethylene. This means that long wire and cable lengths are available. TFE Teflon® is extrudable in a hydraulic ram type process. Lengths are limited due to amount of material in the ram, thickness of the insulation, and preform size. TFE must be extruded over a silver- or nickel-coated wire. The nickel- and silver-coated designs are rated 260°C and 200°C maximum, respectively. The cost of Teflon® is approximately 8 to 10 times more per weight unit than that of PVC.

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Insulations and Jackets

Table 5: Comparative Properties of **Plastic** Insulating and Jacketing Compounds

Properties	PVC	LDPE	Cellular Polyethy-lene	HDPE	Polypro-pylene	Cellular Polypro-pylene	PUR	Nylon	CPE	LSNH	FEP Teflon®
Oxidation Resistance	E	E	E	E	E	E	E	E	E	E	O
Heat Resistance	G-E	G	G	E	E	E	G	E	E	G-E	O
Oil Resistance	F	G-E	G	G-E	F	F	E	E	E	G	E
Low-temperature Flexibility	P-G	E	E	E	P	P	G	G	E	F-G	O
Weather, Sun Resistance	G-E	E	E	E	E	E	G	E	E	G	O
Ozone Resistance	E	E	E	E	E	E	E	E	E	E	E
Abrasion Resistance	F-G	G	F	E	F-G	F-G	O	E	E-O	F-G	E
Electrical Properties	F-G	E	E	E	E	E	P	P	E	G	E
Flame Resistance	E	P	P	P	P	P	P	P	E	E	E
Nuclear Radiation Resistance	F	G-E	G	G-E	F	F	G	F-G	O	F	P
Water Resistance	F-G	E	E	E	E	E	P-G	P-F	O	G	E
Acid Resistance	G-E	G-E	G-E	E	E	E	F	P-F	E	P-F	E
Alkali Resistance	G-E	G-E	G-E	E	E	E	F	E	E	G	E
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, etc.)	P	G-E	G	G-E	P-F	P	P-G	G	E	F	E
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	P-F	P	P	P	P-F	P	P-G	G	G-E	P-F	E
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	P-F	G	G	G	P	P	P-G	G	E	P	E
Alcohol Resistance	P-F	E	E	E	E	E	P-G	P	E	G	E
Underground Burial	P-G	G	N/A	E	N/A	N/A	G	P	E-O	F	E

CPE = Chlorinated Polyethylene • HDPE = High-density Polyethylene • LDPE = Low-density Polyethylene • PUR = Polyurethane • LSNH = Low-smoke Non-halogen • FEP = Fluorinated Ethylene-Propylene • P = Poor • F = Fair • G = Good • E = Excellent • O = Outstanding

These ratings are based on average performance of general purpose compounds.
Any given property can usually be improved by the use of selective compounding.

Teflon® is a DuPont trademark.

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Insulations and Jackets

Table 6: Comparative Properties of **Fluoropolymer** Insulating and Jacketing Compounds

Properties	FEP Teflon®	Tefzel® (ETFE)	PTFE Teflon®
Oxidation Resistance	O	E	O
Heat Resistance	O	E	O
Oil Resistance	O	E	E-O
Low-temperature Flexibility	O	E	O
Weather, Sun Resistance	O	E	O
Ozone Resistance	E	E	O
Abrasion Resistance	E	E	O
Electrical Properties	E	E	E
Flame Resistance	O	G	E
Nuclear Radiation Resistance	P-G	E	P
Water Resistance	E	E	E
Acid Resistance	E	E	E
Alkali Resistance	E	E	E
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, etc.)	E	E	E
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	E	E	E
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	E	E	E
Alcohol Resistance	E	E	E
Underground Burial	E	E	E

FEP = Fluorinated Ethylene-Propylene • ETFE = Ethylene Tetrafluoroethylene • PTFE = Polytetrafluoroethylene
P = Poor • F = Fair • G = Good • E = Excellent • O = Outstanding

These ratings are based on average performance of general purpose compounds.
Any given property can usually be improved by the use of selective compounding.

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Insulations and Jackets

Table 7: Comparative Properties of **Rubber** Insulations

Properties	Rubber	Neoprene	Hypalon® (Chlorosulfonated Polyethylene)	EPDM (Ethylene-Propylene-Diene Elastomer)	Silicone
Oxidation Resistance	F	G	E	E	E
Heat Resistance	F	G	E	E	O
Oil-resistance	P	G	G	P	F-G
Low-temperature Flexibility	G	F-G	F	G-E	O
Weather, Sun Resistance	F	G	E	E	O
Ozone Resistance	P	G	E	E	O
Abrasion Resistance	E	G-E	G	G	P
Electrical Properties	G	P	G	E	G
Flame Resistance	P	G	G	P	F-G
Nuclear Radiation Resistance	F	F-G	E	G	E
Water Resistance	G	E	E	G-E	G-E
Acid Resistance	F-G	G	E	G-E	F-G
Alkali Resistance	F-G	G	E	G-E	F-G
Aliphatic Hydrocarbons Resistance (Gasoline, Kerosene, etc.)	P	G	F	P	P-F
Aromatic Hydrocarbons Resistance (Benzol, Toluol, etc.)	P	P-F	F	F	P
Halogenated Hydrocarbons Resistance (Degreaser Solvents)	P	P	P-F	P	P-G
Alcohol Resistance	G	F	G	P	G

P = Poor • F = Fair • G = Good • E = Excellent • O = Outstanding

These ratings are based on average performance of general purpose compounds.
Any given property can usually be improved by the use of selective compounding.

Hypalon® is a DuPont trademark.

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Insulations and Jackets

Table 8: Nominal Temperature Range for Various Insulating and Jacketing Compounds

Compound	Normal Low	Normal High	Special Low	Special High
Chlorosulfonated Polyethylene (Hypalon®)	-20°C	90°C	-40°C	105°C
EPDM (Ethylene-Propylene-Diene Monomer)	-55°C	105°C	–	150°C
Neoprene	-20°C	60°C	-55°C	90°C
Polyethylene (Solid and Foamed)	-60°C	80°C	–	–
Polypropylene (Solid and Foamed)	-40°C	105°C	–	–
Rubber	-30°C	60°C	-55°C	75°C
FEP Teflon®	-70°C	200°C	–	–
PVC	-20°C	80°C	-55°C	105°C
Silicone	-80°C	150°C	–	200°C
Tefzel®	-65°C	150°C	–	–
PTFE Teflon®	-70°C	260°C	–	–
CPE	-35°C	90°C	-45°C	105°C

Hypalon®, Teflon® and Tefzel® are DuPont trademarks.

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Shielding and Armoring
Overview

Innovative Leadership

The evolution of technology maintains steady demand for sophisticated cable shielding. Belden meets that demand with innovative shielding and shield effectiveness testing methods to supply you with high quality, dependable cable.

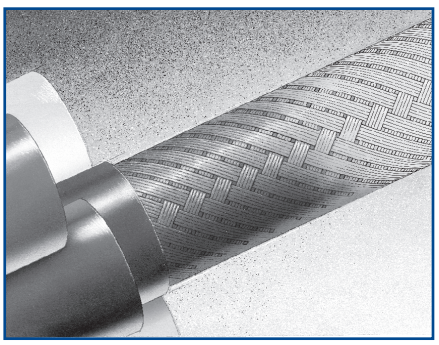
With the creation of trademarked shield designs and patented test methods, Belden has earned a reputation for innovation and leadership that is unequaled in the wire and cable industry. In addition, Belden offers the broadest line of shielded multi-conductor, coaxial and flat cable in the industry.

Several unique Belden innovations are utilized across a wide range of shielding applications:

- **Beldfoil®**
  The first aluminum/polyester foil developed for use as a cable shield. Provides 100% shield coverage for optimum protection.
- **Duofoil®**
  Consists of an aluminum-poly-aluminum laminate wrapped around the cable's dielectric core. Provides 100% physical coverage, and improves shield reliability and flex life.

Belden also utilizes a number of innovative techniques to apply shielding to multi-conductor and paired cables:

- **"French Braid" Shields**
  Belden's patented "French Braid" shield is a double spiral (double serve shield) with the two spirals tied together by one weave.



Belden's patented "French Braid" shield.

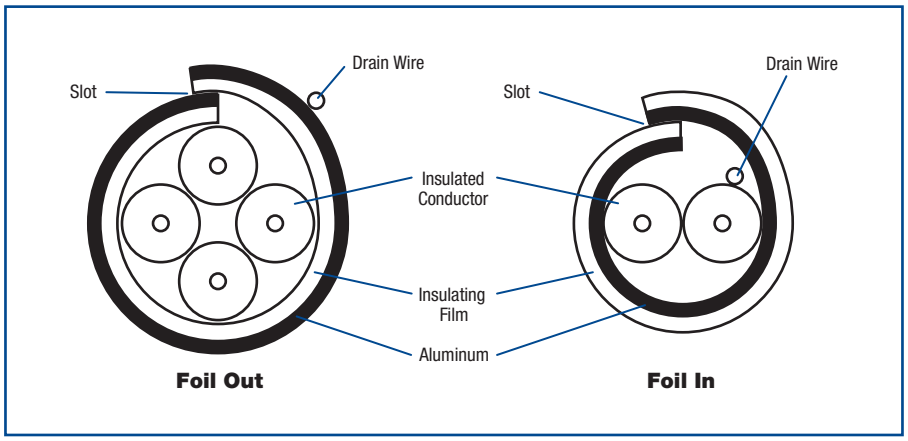


Figure 1: Foil shield configurations without shorting folds.

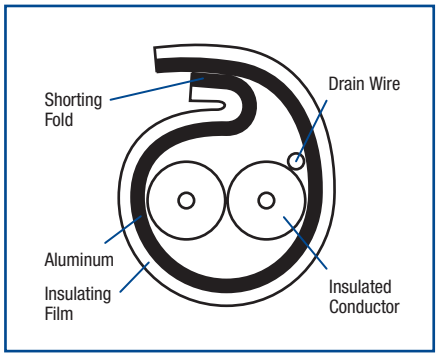


Figure 2: Foil shield configurations with shorting fold.

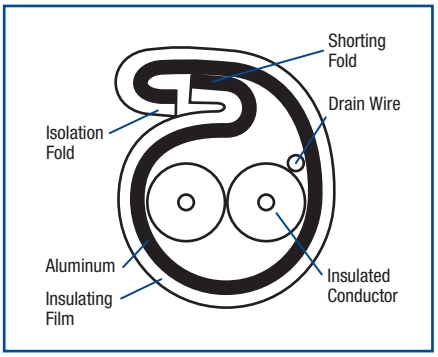


Figure 3: Foil shield with Z-fold reduces crosstalk in multi-pair applications.

- **Shorting Fold**
  Belden uses a shorting fold technique to maintain metal-to-metal contact for improved high frequency performance. Without the shorting fold, a slot is created through which signals can leak and cause interference. (See figures 1 and 2 above.)

- **Z-Fold®**
  Belden improves on the traditional shorting fold by employing a Z-Fold designed for use in multi-pair applications to reduce crosstalk. The Z-Fold (see figure 3) combines an isolation and a shorting fold. The shorting fold provides metal-to-metal contact while the isolation fold keeps shields from shorting to one another in multi-pair, individually shielded cables.

The use of either a shorting fold or a Z-Fold increases the foil shield's range of effectiveness to higher frequencies.

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Shielding and Armoring

Characteristics of Belden Shield Types and Armor Styles

Foil Shields

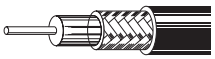
Foil shields consist of aluminum foil laminated to a polyester or polypropylene film. The film gives the shield mechanical strength and bonus insulation. Foil shields provide 100% cable coverage, necessary for electrostatic shield protection. Because of their small size, foil shields are commonly used to shield individual pairs of multi-pair data cables to reduce crosstalk. They have less weight, bulk and cost less than spiral or braid shields and are generally more effective than braid shields in RF ranges. Foil shields are more flexible than braid but have a shorter flex life than spiral or braid.



Drain wires are used with foil shields to make termination easier and to ground electrostatic discharges. The shortcomings in using the foil shield include higher dc resistance and lower mechanical strength than braid or spiral shields.

Braid Shields

A braid shield consists of groups of tinned or bare copper or aluminum strands, one set woven in a clockwise direction and interwoven with another set in a counter-clockwise direction.



Braid shields provide superior structural integrity, while maintaining good flexibility and flex life. These shields are ideal for minimizing low frequency interference and have lower DC resistance than foil. Braid shields are effective at audio, as well as RF ranges. Generally, the higher the braid coverage, the more effective the shield. However, the trade-off between cost and braid coverage must be considered. Typical braid coverages are between 80% and 95%. Coverage of 100% is unattainable with a braid shield. Other features to consider when choosing a braid shield are the weave angle, strand diameter, number of carriers (strand groups) and the number of ends (strands).

Braid shields are generally bulkier and heavier than other shields and, in some cases, harder to terminate because the braid may be combed out and pigtailed.

Spiral/Serve Shields

A spiral/serve shield consists of wire (usually copper) wrapped in a spiral around the inner cable core.



Superior flexibility and flex life, ease of termination and up to 97% coverage are the advantages of spiral shields. They are best suited for audio applications. As a rule, spiral shields are not effective above the audio frequency range due to the coil effect produced by the inductance of served wire strands.

"French Braid" Shields

Belden's patented "French Braid" shield is a double spiral (double serve shield) with the two spirals tied together by one weave. This construction provides improved flex life over standard spiral shields, improved flexibility over conventional braid shields, and lower levels of microphonic or triboelectric noise than either spiral or conventional braid shields.



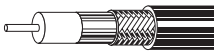
Combination Shields

Combination shields consist of more than one layer of shielding. They provide maximum shield efficiency across the frequency spectrum. The combination foil/braid shield combines the advantages of 100% foil coverage, plus the strength and low DC resistance of the braid.

Belden has also developed a number of shielding configurations for use with broadband coaxial cables.

- **Duobond®**
  Duobond is essentially the same construction as Duofoil® (a laminated tape of foil/film/foil), but with an extra layer of adhesive bonding the foil shield to the dielectric core. This foil shield provides 100% coverage and insures maximum shield protection.

- **Duobond II (Foil/Braid)**
  Combines Duobond with an outer braid, applied for greater protection against interference and to increase the overall tensile strength.



- **Duobond III (Tri-Shield)**
  Utilizes the Duobond II design (foil/braid) plus a surrounding layer of Duofoil. The extra foil layer improves shield reliability and provides an additional interference barrier.



- **Duobond Plus®**
  Features foil/braid/foil construction with a shorting fold in the outermost foil. This fold prevents a slot opening from being created in the shield, thereby preventing signal egress or ingress.



- **Duobond IV (Quad Shield)**
  Offers an extra layer of braid shield (foil/braid/foil/braid) for improved strength and durability.



Other combination shields are available such as the foil/braid/foil/braid used on the Ethernet cables, braid/braid or foil/spiral.

Armoring

Belden's innovative technology delivers maximum effectiveness to meet the performance requirements of a wide range of applications.

Belden also has the capability to protect electronic, instrumentation, and control cables with interlocking steel or aluminum armor.

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Shielding and Armoring

Shield Types Application Guide, Table 9: Relative Cost Comparison of Shield Types Table 10: Shield Performance Ratings

Shield Types Application Guide

Choose a Foil Shield…

- For protection against capacitive (electric field) coupling where shield coverage is more important than low DC resistance.
- When possible sources of interference include TV signals, crosstalk from other circuits, radio transmitters, fluorescent lights or computing equipment.
- For MATV, CATV, video, networking, computer I/O cables in office, industrial or commercial environments where ambient EMI levels are low.

Choose a Braid Shield…

- For superior performance against diffusion coupling, where low DC resistance is important, and to a lesser extent, capacitive and inductive coupling.
- When possible sources of interference exhibit low impedance characteristics, such as motor control circuits and switches which operate inductive loads.
- For computer to terminal interconnect for process, instrumentation or control applications.

Choose a Spiral Shield…

- For functional shielding against diffusion and capacitive coupling at audio frequencies only.
- When possible sources of interference are power lines and fluorescent lights.
- For applications when flexibility and flex life are major concerns, such as microphone and audio cables and retractile cords.

Choose a Combination Shield…

- For shielding against high frequency radiated emissions coupling and ESD. Combines the low resistance of braid and 100% coverage of foil shields.
- When possible sources of interference include radio transmitters, TV stations, printed circuit boards, back planes, motor control circuits and computing equipment.
- For video, CATV, MATV, networking, computer I/O cables and computer-aided manufacturing applications.

Table 9: Relative Cost Comparison

Relative cost comparisons are based on coaxial cable. Chart shows relative shield cost as one component of the total cost of the cable.

These cost ratings may change depending on the physical construction of the cable.

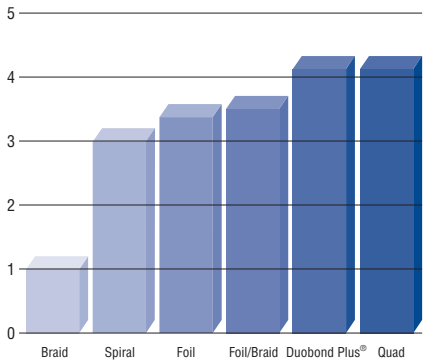


Table 10: Shield Performance Comparison Chart

Properties	Cable Shield Ratings*				
	Braid (95% Coverage)	Spiral	Foil	Foil/Braid	Foil/Braid/Foil Duobond Plus®
Frequency: DC					
Capacitive	A	AA	AAA	AAA	AAA
Diffusion	AAA	A	C	AAA	AAA
Diffusion/Inductive	–	–	–	–	–
Diffusion/Inductive/Capacitive	–	–	–	–	–
Frequency: 15 kHz					
Capacitive	A	AA	AAA	AAA	AAA
Diffusion	AAA	B	C	AAA	AAA
Diffusion/Inductive	AA	C	A	AA	AAA
Diffusion/Inductive/Capacitive	–	–	–	–	–
Frequency: 10 MHz to 1000 MHz					
Capacitive	A	AA	AAA	AAA	AAA
Diffusion	–	–	–	–	–
Diffusion/Inductive	B	C	A	AA	AAA
Diffusion/Inductive/Capacitive	B	C	A	AA	AAA

* Although ratings shown in table 10 are based on shielded coaxial cable test results, these ratings also pertain to shielded multi-conductor and flat cable where shield types are available.

Note: Shield effectiveness decreases as frequency increases. Therefore, ratings in one frequency category do not imply equal shield effectiveness in other frequency categories.

Shield Rating Key	
AAA	Best
AA	Better
A	Good
B	Functional
C	Unsatisfactory
–	Not applicable

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Metric Conversions

Table 11: Temperature Conversion Chart and Formula
Table 12: Distance and Weight Conversion Formulas, Table 13: RG Types

Table 11: Temperature Conversion Chart

°C ⟷	°F
210	410
205	401
200	392
195	383
190	374
185	365
180	356
175	347
170	338
165	329
160	320
155	311
150	302
145	293
140	284
135	275
130	266

°C ⟷	°F
125	257
120	248
115	239
110	230
105	221
100	212
95	203
90	194
85	185
80	176
75	167
70	158
65	149
60	140
55	131
50	122
45	113

°C ⟷	°F
40	104
35	95
30	86
25	77
20	68
15	59
10	50
5	41
0	32
-5	23
-10	14
-15	5
-20	-4
-25	-13
-30	-22
-35	-31
-40	-40

Temp. Conversion Formulas

$$°C = \frac{5}{9}(°F - 32)$$

$$°F = \frac{9}{5}°C + 32$$

Table 12: Conversion Chart

To Convert Imperial to Metric			
inch	mm	x 25.4	#
ft.	m	: 0.3048	#
mi	km	x 1.6093	▲
lbs.	kg	x 0.4536	▲
lbs./100 ft.	kg/km	x 1.488	▲
To Convert Metric to Imperial			
mm	inch	: 25.4	#
m	ft.	x 0.3048	#
km	mi	x 0.6214	▲
kg	lbs.	x 2.204	▲
kg/km	lbs./100 ft.	x 0.67197	▲

= Exact value
▲ = Approximate value
x = multiply by
: = devide by

Table 13: RG Types

For example RG-59 is a common type of coaxial cable used in a wide variety of professional and commercial applications. The term RG itself is quite generic and refers to a wide variety of cable designs, which differ from one another in shielding characteristics, center conductor material, and dielectric type.

RG was originally a military spec, but is now obsolete; in practice, the term RG is generally used to refer to coaxial cables with 50, 75 or 93 Ohm characteristic impedance and a center conductor as follows:

Type	CDR (mm approx)	Impedance Ohm
RG-6	1	75
RG-8	1.5 - 2.7	75
RG-11	1.6	75
RG-58	0.7 - 1.2	75
RG-58	0.7 - 4.5	50
RG-59	0.6 - 0.8	75
RG-62	0.6	93
RG-401	1.6	50
RG-402	0.9	50
RG-405	0.5	50

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Metric Conversions

Table 14: Conductor Size Equivalents (Square Millimeters/Square Inches/Circular Mils/AWG)

mm²	sq. in.	Circular mils	AWG
1000	1.550	1974000	
975	1.511	1924700	
950	1.472	1875300	
925	1.434	1826000	
900	1.395	1776600	
875	1.356	1727300	
850	1.317	1677900	
825	1.279	1628600	
800	1.240	1579200	
775	1.201	1529900	
750	1.163	1480500	
725	1.124	1431200	
700	1.085	1381800	
675	1.046	1332500	
650	1.008	1283100	
625	0.969	1233800	
600	0.930	1184400	
575	0.891	1135100	
550	0.853	1085700	1000 MCM
525	0.814	1036400	
500	0.775	987000	
475	0.736	937700	
450	0.698	888300	
425	0.659	839000	
400	0.620	789600	750 MCM
375	0.581	740300	
350	0.542	690900	
325	0.504	641600	600 MCM
300	0.465	592200	
275	0.426	542900	500 MCM
250	0.388	493500	
225	0.349	444200	350 MCM
200	0.310	394800	
185	–	–	
175	0.271	345500	300 MCM
150	0.233	296100	
125	0.1938	246800	
120	–	211600	4/0
100	0.1550	197400	
95	0.1472	187530	
90	0.1395	177660	
–	–	167800	3/0
85	0.1317	167790	
80	0.1240	157920	
75	0.1163	148050	
70	0.1085	138180	
–	–	133100	2/0
65	0.1008	128310	
60	0.0930	118440	
55	0.0853	108570	
–	–	105600	1/0
50	0.0775	98700	
45	0.0698	88830	
–	–	83690	1
40	0.0620	78960	
35	0.0542	69090	
–	–	66360	2
30	0.0465	59220	
–	–	52620	3
25	0.0388	49350	
–	–	41740	4
20.0	0.0310	39480	
19.5	0.0302	38490	
19.0	0.0294	37510	
18.5	0.0287	36520	
18.0	0.0279	35530	
17.5	0.0271	34550	
17.0	0.0264	33560	
–	–	33090	5
16.5	0.0256	32560	
16.0	0.0248	31580	6
15.5	0.0240	30600	
15.0	0.0233	29610	
14.5	0.0225	28620	
14.0	0.0217	27640	
13.5	0.0209	26650	
–	–	26420	
13.0	0.0201	25660	
12.5	0.0194	24680	
12.0	0.0186	23690	
11.5	0.0178	22700	
11.0	0.0171	21710	
–	–	20820	7
10.5	0.0163	20730	
10.0	0.0155	19740	
9.5	0.01472	18753	
9.0	0.01395	17766	
8.5	0.01317	16779	
–	–	16510	8
8.0	0.01240	15792	
7.7	0.01163	14805	
7.0	0.01085	13818	
–	–	13090	9
6.5	0.01008	12831	
6.0	0.00930	11844	
5.5	0.00853	10857	
–	–	10380	10
5.00	0.00775	9870	
4.75	0.00736	9377	
4.50	0.00698	8883	
4.25	0.00659	8390	
–	–	8230	11
4.00	0.00620	7896	
3.75	0.00581	7403	
3.50	0.00542	6909	
–	–	6530	12
3.25	0.00504	6416	
3.00	0.00465	5922	
2.75	0.00426	5429	
2.63	–	5180	13
2.50	0.00388	4935	
2.25	0.00349	4422	
–	–	4110	14
2.00	0.00310	3948	
1.75	0.00271	3455	
1.65	–	3260	15
1.50	0.00233	2961	
–	–	2580	16
1.25	0.00194	2468	
–	–	2050	17
1.00	0.00155	1974	
0.90	0.00140	1777	
–	–	1620	18
0.75	0.00116	1481	
0.70	0.00109	1382	
0.65	–	1290	19
0.60	0.00093	1184	
–	–	1029	20
0.50	0.000775	987	

To Convert:	Multiply by:
Inches to millimeters	25.4
Millimeters to inches	0.03937

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Belden Color Code Charts

Color Code Chart 1

Cond.	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Grey
11	Pink
12	Tan

18 gage conductors in cables 8446 through 8449 are black and white.

Color Code Chart 2 and 2R – ICEA (Insulated Cable Engineers Association) Standard*

Cond.	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	White/Black Stripe
8	Red/Black Stripe
9	Green/Black Stripe
10	Orange/Black Stripe
11	Blue/Black Stripe
12	Black/White Stripe
13	Red/White Stripe
14	Green/White Stripe
15	Blue/White Stripe
16	Black/Red Stripe
17	White/Red Stripe
18	Orange/Red Stripe
19	Blue/Red Stripe
20	Red/Green Stripe
21	Orange/Green Stripe
22	Black/White/Red
23	White/Black/Red
24	Red/Black/White
25	Green/Black/White
26	Orange/Black/White
27	Blue/Black/White
28	Black/Red/Green
29	White/Red/Green
30	Red/Black/Green
31	Green/Black/Orange
32	Orange/Black/Green
33	Blue/White/Orange
34	Black/White/Orange
35	White/Red/Orange
36	Orange/White/Blue
37	White/Red/Blue
38	Black/White/Green
39	White/Black/Green
40	Red/White/Green
41	Green/White/Blue
42	Orange/Red/Green
43	Blue/Red/Green
44	Black/White/Blue
45	White/Black/Blue
46	Red/White/Blue
47	Green/Orange/Red
48	Orange/Red/Blue
49	Blue/Orange/Red
50	Black/Orange/Red

* 2= Spiral Stripe • 2R= Ring Band Striping

Color Code Chart 3 for Paired Cables (Belden Standard)

Cond.	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue
16	Green & Yellow
17	Green & Brown
18	Green & Orange
19	White & Blue
20	White & Yellow
21	White & Brown
22	White & Orange
23	Blue & Yellow
24	Blue & Brown
25	Blue & Orange
26	Brown & Yellow
27	Brown & Orange
28	Orange & Yellow
29	Purple & Orange
30	Purple & Red
31	Purple & White
32	Purple & Green
33	Purple & Blue
34	Purple & Yellow
35	Purple & Brown
36	Purple & Black
37	Grey & White

Color Code Chart 4 for Paired Cables

Pair No.	Color Combination
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Grey
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Grey
11	Black & Blue
12	Black & Orange
13	Black & Green
14	Black & Brown
15	Black & Grey
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Grey
21	Purple & Blue
22	Purple & Orange
23	Purple & Green
24	Purple & Brown
25	Purple & Grey

Color Code Chart 5 for Paired Cables (Western Electric Standard)

Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Grey Stripe & Grey/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Grey Stripe & Grey/Red Stripe
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Grey Stripe & Grey/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Grey Stripe & Grey/Yellow Stripe
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe
25	Purple/Grey Stripe & Grey/Purple Stripe

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Belden Color Code Charts

Color Code Chart 6

Position No.	Color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Grey
9	White
10	White/Black
11	White/Brown
12	White/Red
13	White/Orange
14	White/Yellow
15	White/Green
16	White/Blue
17	White/Purple
18	White/Grey
19	White/Black/Brown
20	White/Black/Red
21	White/Black/Orange
22	White/Black/Yellow
23	White/Black/Green
24	White/Black/Blue

Color Code Chart 7 for Snake Cables

Pair No.	Color Combination
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Grey
9	White
10	Black
11	Tan
12	Pink
13	Grey/Brown Stripe
14	Grey/Red Stripe
15	Grey/Orange Stripe
16	Grey/Yellow Stripe
17	Grey/Green Stripe
18	Grey/Blue Stripe
19	Grey/Purple Stripe
20	Grey/Grey Stripe

Pair No.	Color Combination
21	Grey/White Stripe
22	Grey/Black Stripe
23	Grey/Tan Stripe
24	Grey/Pink Stripe
25	Blue/Brown Stripe
26	Blue/Red Stripe
27	Blue/Orange Stripe
28	Blue/Yellow Stripe
29	Blue/Green Stripe
30	Blue/Blue Stripe
31	Blue/Purple Stripe
32	Blue/Grey Stripe
33	Blue/White Stripe
34	Blue/Black Stripe
35	Blue/Tan Stripe
36	Blue/Pink Stripe
37	Lime/Brown Stripe
38	Lime/Red Stripe
39	Lime/Orange Stripe
40	Lime/Yellow Stripe

Pair No.	Color Combination
41	Lime/Green Stripe
42	Lime/Blue Stripe
43	Lime/Purple Stripe
44	Lime/Grey Stripe
45	Lime/White Stripe
46	Lime/Black Stripe
47	Lime/Tan Stripe
48	Lime/Pink Stripe
49	Aqua/Brown Stripe
50	Aqua/Red Stripe
51	Aqua/Orange Stripe
52	Aqua/Yellow Stripe
53	Aqua/Green Stripe
54	Aqua/Blue Stripe
55	Aqua/Purple Stripe
56	Aqua/Grey Stripe
57	Aqua/White Stripe
58	Aqua/Black Stripe
59	Aqua/Tan Stripe
60	Aqua/Pink Stripe

Color Code Chart 8 for DataTwist® Cables (Modified Western Electric)

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown
5	White/Grey Stripe & Grey
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe

Pair No.	Color Combination
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Grey Stripe & Grey/Red Stripe
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe
14	Black/Brown Stripe & Brown/Black Stripe

Pair No.	Color Combination
15	Black/Grey Stripe & Grey/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Grey Stripe & Grey/Yellow Stripe

Pair No.	Color Combination
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe
25	Purple/Grey Stripe & Grey/Purple Stripe

Color Code Chart 9: IBM RISC System/6000

Cond.	Color
1	White over Blue
2	White over Orange
3	White over Green
4	White over Brown
5	White over Grey
6	White over Red
7	White over Yellow

Pair No.	Color Combination
1	White over Blue & Blue over White
2	White over Orange & Orange over White
3	White over Green & Green over White

Color Code Chart 10 for Fiber Optics*

Position No.	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red

Position No.	Color
8	Black
9	Yellow
10	Purple
11	Rose
12	Aqua

* per TIA/EIA 598-A

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Belden Color Code Charts

Chart 11: VDE 47100

Core No.	Color
1	White
2	Brown
3	Green
4	Yellow
5	Grey
6	Pink
7	Blue
8	Red
9	Black
10	Violet
11	Grey/Pink
12	Red/Blue
13	White/Grey
14	Brown/Green
15	White/Yellow
16	Yellow/Brown
17	White/Grey
18	Grey/Brown
19	White/Pink
20	Pink/Brown
21	White/Blue

Core No.	Color
22	Brown/Blue
23	White/Red
24	Brown/Red
25	White/Black
26	Brown/Black
27	Grey/Green
28	Yellow/Green
29	Pink/Green
30	Yellow/Pink
31	Green/Blue
32	Yellow/Blue
33	Green/Red
34	Yellow/Red
35	Green/Black
36	Yellow/Black
37	Grey/Blue
38	Pink/Blue
39	Grey/Red
40	Pink/Red
41	Grey/Black
42	Pink/Black

Core No.	Color
43	Blue/Black
44	Red/Black
45	White/Brown/Black
46	Yellow/Green/Black
47	Grey/Pink/Black
48	Red/Blue/Black
49	White/Green/Black
50	Brown/Green/Black
51	White/Yellow/Black
52	Yellow/Brown/Black
53	White/Grey/Black
54	Grey/Brown/Black
55	White/Pink/Black
56	Pink/Brown/Black
57	White/Blue/Black
58	Brown/Blue/Black
59	White/Red/Black
60	Brown/Red/Black
61	Black/White

Chart 12: UNEL 00722

Core No.	Color
2	Brown, Blue
3	Brown, Blue, Green/Yellow
4	Brown, Black, Blue, Green/Yellow
5	Brown, Blue, Black, Black, Green/Yellow

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Halogen-Free Standards

Our halogen-free cables meet the most important international standards. Moreover Belden selected halogen-free jacketing materials are suitable for outdoor use like direct burial.

In comparison to products containing halogens (like PVC), these halogen-free materials offers considerable advantages in case of a fire:

- Less impairment to vision
- Minimal toxic gases
- No release of highly caustic acids
- More safety for man, nature and materials.

Belden's halogen-free cables are both FRNC (= Flame-Retardant, Non-Corrosive) and LSNH (= Low-Smoke, Non-Halogen).

In the event of a fire, low halogen cables can burn extremely fiercely. In addition, a forced air flow intended to cool equipment can provide a continuous supply of oxygen, thus "feeding" the fire. Where this air flow has a HVAC function, fire and toxic smoke may be distributed to other parts of the building.

Beyond Zero Halogen

Where there is a risk of fire and/or smoke being propagated and spread throughout a building, there is an additional risk of corrosive and toxic damage. Recent research has demonstrated that several cables in common use may in fact propagate fire and smoke extremely rapidly. These include cables with a fire rating, including low smoke and low halogen. In a number of actual fires, severe structural damage has occurred.

Products Tested for Public Safety

It goes without saying that where public safety is concerned, there can be no shortcuts. Safety standards are high to ensure minimum damage to life, property and the environment. When it comes to cables, make sure you specify the best products for safety. So you can be confident of performance and quality – even in the event of a calamity.

Belden cables offer the quality and reliability consistent with your long-term needs. And to ensure top performance. Belden cables are available with extended fire ratings. Belden has developed these cables in response to the industry's growing demand for halogen free cables with acid free, non toxic and low smoke density which are also flame and fire retardant.

The test designation (and its meaning) would be one of the following:

IEC 60754-1
The cable must be designed with halogen-free plastics. This has an additional advantage: no formation of toxic gases.

IEC 60754-2
This test determines the level of corrosion by combustion of insulation-bedding and sheathing compounds. A minimum of 1000 mg (±5 mg) of insulating or sheathing compound should be heated in a furnace, 500 - 600 mm long, to a temperature of 935°C.

IEC 60332-3C (Test on Fire Behavior on Cable Bundles)
The cables should be flamed/torched from a distance of 75 mm by a propane gas burner. The test duration is 20 min. The test is passed if the flames extinguish by themselves and when no part of the samples is affected above a 2.5 m height from the burner.

IEC 60332-1
A sample of 600 mm is burnt with a flame of a propane gas burner. The test is passed, if the sample has not burnt or when the flames extinguish by themselves and the affected part of the sample which is located the farest from the bottom edge of the burner has not reached the opposite edge of the sample.

IEC 61034-1
The measurement system (27 m^3 chamber) consists of a light source (a standardized 100 W halogen lamp) and a selenium or silicon photo-electric cell, both installed at a height of 2.15 m. A rectangular tray filled with 1 litre of alcohol provides the fire source. A ventilator ensures an even distribution of smoke. The number of test samples depends on the outer diameter. The light intensity is recorded by a plotter. The test is passed if the level of light transmission is not lower than 60%.

Specification	International IEC	Europe CENELEC	Germany VDE	Switzerland SEV	Spain UNE	Italy CEI	France NF	United Kingdom BS	Others
Material Properties									
Quantity of halogen (halogen-free)	IEC 60754-1	EN 50267-2-1	VDE 0482, Teil 267	TP 20B/ 3C 3.4.5	UNE EN 50267-2-1	CEI 20-37-2	NFC 20-454	-/-	-/-
Toxicity index (no toxic gases)	IEC 60754-1	EN 50305	-/-	-/-	UNE EN 50267-2-1	CEI 20-37-7	NFC 20-454	-/-	NES 713
Degree of Acidity (no corrosive gases)	IEC 60754-2	EN 50267-2-2	VDE 0482, Teil 267	TP 20B/ 3C 3.4.4/3.4.5	UNE EN 50267-2-3	-/-	NFC 20-454	BS 6425 Part 2	-/-
Fire Performance									
Fire retardant (no flame propagation)	IEC 60332-3C IEC 60333-3	EN 50265-2-1 (HD405.3)	VDE 0482, Teil 266-2-4	TP 20B/ 3C 3.4.1.3	UNE 20423-3 UNE 20427	CEI 20-22-3	NFC 32070-C1	BS 4066 Part 3	-/-
Flame retardant	IEC 60332-1	EN 50265-2-1 (HD405.1/2)	VDE 0482, Teil 265-2-1	TP 20B/ 3C 3.4.1.1	UNE EN 50265-2-1	-/-	-/-	BS 4066 Part 1	-/-
Low smoke density	IEC 61034-1	EN 50268-2-1	VDE 0482, Teil 268	TP 20B/ 3C 3.4.3	UNE EN 50268	CEI 20-37-5	-/-	BS 7622 Part 1	-/-

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Environmental Regulations and Compliance

Heavy Metal Free, RoHS and Prop 65

Over the past several years, increased attention has been placed upon the potential environmental impacts of electronic products. Both voluntary and regulatory measures have been taken to address some of these concerns. Already in place are California Proposition 65 and the European Union End-of-Life Vehicle (ELV) and Flame Retardant Directives. Since July 2006 the European Union Restriction on Hazardous Substances (RoHS) Directive is in place and restricts the use of heavy metal substances (Lead, for example) in electronic products. There are also several states and countries currently considering their own legislation on this topic.

The use of materials that are environmentally friendly is of growing concern to Belden, its customers and to the global community since January 2006. Belden is engaged in a world-wide project to integrate into its product designs and supplier requirements a formalized program to restrict the use of these materials. The following list of materials represents examples of substances that Belden is eliminating or reducing in certain applications:

- Asbestos and its compounds
- Cadmium and its compounds
- Chromium VI and its compounds
- Lead and its compounds
- Mercury and its compounds
- Polybrominated biphenyls (PBBs) and their ethers/oxides (PBDEs, PBBEs)
- Di-(2-ethylhexly)phthalate (DEHP)
- Penta-, Octa-BDE brominated flame retardants

As a result of this project, many of Belden's products are now, heavy metal free and meet the requirements of both RoHS and California Proposition 65. Please consult the Glossary of Terms section, contact Belden customer service or visit www.belden-emea.com for more specific product details and current compliance information.

RoHS Compliance

Unless so marked, cables in this catalog do not contain any of the following restricted substances, as an intentional additive, and is therefore compliant with European Directive 2002/95/EC (RoHS), European Directive 2000/53/EC (ELV), European Directive 2003/11/EC (BFR), European Directive 2002/96/EC (WEEE), and California Proposition 65 Consent Judgement for Wire & Cable Manufactures [San Francisco Superior Court Nos. 312962 and 320342] (Prop 65).

For customer convenience, Belden products that are in compliance with these directives contain the identification "ROHS" within the text of the jacket surface printing and also an environmentally friendly logo (as shown at right) on package labeling.

Substance	Maximum Concentration*
Lead	0.03%
Mercury	0.10%
Hexavalent Chromium	0.10%
PBB, PBDE**	0.10%
Cadmium	0.01%

* Per homogeneous material, as trace or contaminate amount.
** Some Belden cables may contain Decabromodiphynyl Oxide/Ether (PBDE) as a flame retardant. This substance is currently exempt from RoHS.

In addition, Belden products do not contain asbestos and its compounds or Di-(2-ethylhexly)phthalate (DEHP).

This determination is based upon information obtained from sources which Belden believes are reliable, and from random sample testing at the Belden Engineering Center; however, the information is provided without any representation of warranty, expressed or implied, regarding accuracy or correctness. Belden does not specifically run any analysis on our raw materials or end product to measure for these substances.

The information provided in this catalog, and the identification of materials listed as reportable or restricted within the catalog, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the catalog is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This catalog is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

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Cable Packaging

Belden, a recognized leader in state-of-the-art packaging design, has introduced a variety of packaging styles and options for the convenience of our customers:

UnReel®

A wide variety of Belden cable and plenum cable is available in Belden's UnReel cardboard dispenser.

Belden UnReel is a unique packaging/dispensing system developed to save time, cut costs and labor, and eliminate the need for dereeling equipment.

Lightweight and more economical than conventional drums or reels, UnReel dispensers have pre-punched handles for easy, individual transport as well as rectangular boxes for easy pallet delivery and storage. Unreeled cable pays out smoothly and evenly with no kinking, twisting, or backlashing. It also rolls out 60% faster per hour than conventionally packaged cable.

UnReel ships, stores and dispenses in one carton, which – since its introduction – has always been fully recyclable and biodegradable. Look for the letter "U" in the put-up ("length") description.

Coil Package

New Generation cables are available in a coil package. These revolutionary coils come in an easy-to handle standard package size so pallet loading is uniform. In addition, the densely packaged coil requires less shelf space, truck space or cage space. In addition, because there is no box and no spool, far less waste and clean-up are required after use.

This is the most tangle-proof package available and, because the wire pulls from the middle you only have to handle the weight of the length of wire between you and the coil. This is a great advantage over the conventional spool where it is necessary to pull the whole weight of the package to get it spinning and, once spinning, the spool does not stop. Often assistance is required to stop for payouts from tangling. With coils, no assistance is required and there is no tangling. In addition, five coils can be stacked and pulled in parallel through their common centre.

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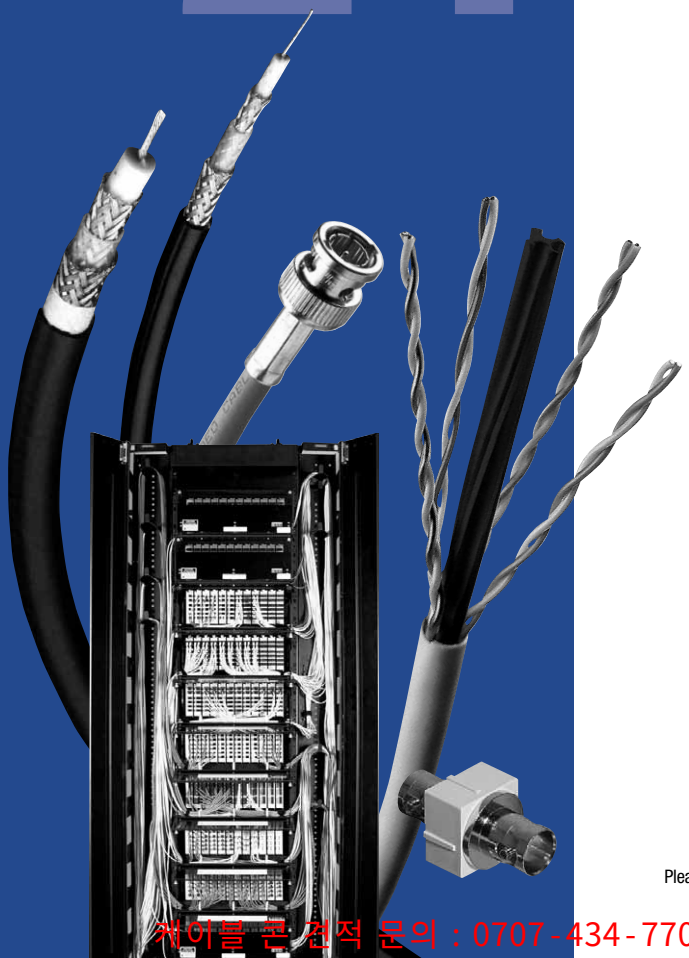


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