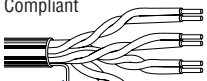
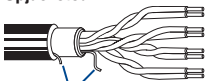


Industrial Data Solutions® — Industrial Ethernet

Category 5e DataTuff® Twisted Pair Cables, 2-Pair and 4-Pair
Heavy-Duty Sunlight and Oil-Resistant Jackets

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm							
Enhanced Cat 5e • 24 AWG Bonded-Pairs Solid BC Conductors • Rip Cord • See Color Codes below																
Polyolefin Insulation • .030" Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black, Red or Teal)																
 EtherNet/IP Compliant	7932A <i>new</i>	NEC:	2	1000	304.8	19.0	8.61	.207	5.26	1	2.0	65.3	63.3	60.8	100±12	20.0
		CMR		2000 ▲	609.6	38.0	17.24			4	4.0	56.3	52.3	48.7	100±12	23.6
		CEC:								8	5.7	51.8	46.1	42.7	100±12	25.4
		CMR FT4								10	6.4	50.3	43.9	40.8	100±12	26.0
										16	8.1	47.3	39.1	36.7	100±12	26.0
										25	10.3	44.3	34.1	32.8	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
*2000 ft. put-up available in Black only. • M-12 or RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°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																
 EtherNet/IP Compliant	7923A	NEC:	4	1000	304.8	28.0	12.7	.230	5.84	1	2.0	65.3	63.3	60.8	100±12	20.0
		CMR,		2000 ▲	609.6	54.0	24.5			4	4.0	56.3	52.3	48.7	100±12	23.6
		CMX-								8	5.7	51.8	46.1	42.7	100±12	25.4
		Outdoor								10	6.4	50.3	43.9	40.8	100±12	26.0
		CEC:								16	8.1	47.3	39.1	36.7	100±12	26.0
		CMR FT4								25	10.3	44.3	34.1	32.8	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
*2000 ft. put-up available in Black only. • RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°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 • P-07-KA060003-MSHA*																
Polyolefin Insulation • Waterblocked Sunlight- and Oil-resistant Black Polyethylene Jacket																
 EtherNet/IP Compliant Halogen-Free Burial	7934A <i>new</i>	—	4	1000	304.8	25.0	11.34	.230	5.84	1	2.0	62.3	60.0	60.8	100±15	20.0
										4	4.1	53.3	49.0	48.7	100±15	23.6
										8	5.8	48.8	43.0	42.7	100±15	25.4
										10	6.5	47.3	41.0	40.8	100±15	26.0
										16	8.2	44.3	36.0	36.7	100±15	26.0
										20	9.3	42.8	33.5	34.7	100±15	26.0
										25	10.4	41.3	30.9	32.8	100±15	25.5
										31.25	11.7	39.9	28.0	30.9	100±15	25.0
										62.5	17.0	35.4	19.0	24.8	100±15	23.5
										100	22.0	32.3	11.0	20.8	100±15	22.5
										155	28.1	29.5	1.4	16.9	100±25	15.8
										200	32.0	27.8	1.0	14.7	100±25	15.0
		RJ-45 Compatible • Jacket sequentially marked at 3 ft. intervals Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°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 • Waterblocked per Telcordia, IEC and ICEA														
Plenum • FEP Insulation • Sunlight-, Oil- and Gas-resistant Black FEP Jacket																
 EtherNet/IP Compliant High & Low Temp Oil Res I & II Gas Res	7928A	NEC:	4	1000	304.8	24.0	10.9	.187	4.75	1	2.0	65.3	63.3	60.8	100±12	20.0
		Limited								4	4.0	56.3	52.3	48.7	100±12	23.6
		Combustible								8	5.7	51.8	46.1	42.7	100±12	25.4
		FHC 25/50								10	6.4	50.3	43.9	40.8	100±12	26.0
		CMP								16	8.1	47.3	39.1	36.7	100±12	26.0
		CEC:								25	10.3	44.3	34.1	32.8	100±15	25.5
		CMP FT6								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
RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126																
Polyolefin Insulation • PVC Inner Jacket • .035" Industrial Grade PVC Outer Jacket (Black, Gray, Red, Teal or Blue)																
 EtherNet/IP Compliant Upjacketed	11700A	NEC:	4	1000	304.8	39.0	17.7	.285	7.24	1	2.0	65.3	63.3	60.8	100±12	20.0
		CMR,		3000 †	914.4	117.0	53.2			4	4.0	56.3	52.3	48.7	100±12	23.6
		CMX-								8	5.7	51.8	46.1	42.7	100±12	25.4
		Outdoor								10	6.4	50.3	43.9	40.8	100±12	26.0
		CEC:								16	8.1	47.3	39.1	36.7	100±12	26.0
		CMR FT4								25	10.3	44.3	34.1	32.8	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
†3000 ft. put-up available in Black only. • Outer jacket is sunlight- and oil-resistant. • Jacket sequentially marked at 2 ft. intervals 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, Category 5e • U.S. Patents 5,606,151 and 5,734,126 • P-07-KA060005-MSHA*																
 Oil Res I & II Upjacketed	11700A2 <i>new</i>	NEC:	4	1000 ††	304.8	42.0	19.1	.285	7.24	1	2.0	65.3	63.3	60.8	100±12	20.0
		CMR		2000 ††	609.6	86.0	39.1			4	4.0	56.3	52.3	48.7	100±12	23.0
		CEC:								8	5.7	51.8	46.1	42.7	100±12	24.5
		CMR FT4								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
††1000 ft. put-up available in Black or Blue only, 2000 ft. put-up in Black only. • RJ-45 Compatible • Outer jacket is sunlight resistant. Cable passes -10°C Cold Bend per UL1581 • Installation Temperature: +5°C to +75°C • Operating Temperature: -10°C to +75°C** Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126																

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum •

Industrial Data Solutions® — Industrial Ethernet

TrayOptic® Heavy-Duty, All-Dielectric Fiber Optic Cables

Loose Tube — Indoor/Outdoor Riser & Tray

Applications

- Industrial and other harsh environment applications
- Factory automation
- Direct burial

Product Description

Laser Optimized Fiber to handle Gigabit Ethernet light sources and expanded bandwidth requirements. Passes IEEE 383-2003 flame test. Waterblocking agent for moisture protection. CPE outer jacket option provides extra chemical or abrasion resistance.

Jacket Material	PVC or CPE
Strength Member	Aramid Yarn
Jacket Color	Orange

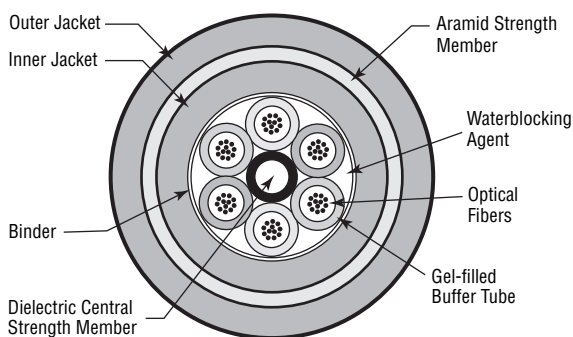
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT4
Flame Resistance	IEEE 383-2003

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	500 lbs./in. min.
Impact Resistance (EIA-455-25)	3.3 ft.-lbs./25 impacts min. @ 2.2N-m
Cyclic Flexing (EIA-455-104)	25 cycles, 12 lbs., 20 x OD radius min.
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Maximum Installation Load	600 lbs. (2700 N)
Optical Specifications	See page 10.2

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Outside Diameter		PVC Jacket			CPE Jacket		
		Inches	mm	Belden Part No.	Weight Lbs./1000'	Weight kg/km	Belden Part No.	Weight Lbs./1000'	Weight kg/km

TrayOptic Series

Riser (NEC/CEC OFNR/OFN FT4)									
2	2	0.440	11.18	I100255	88	131	I100266	83	124
4	4	0.440	11.18	I100455	88	131	I100466	83	124
6	6	0.440	11.18	I100655	88	131	I100666	83	124
8	4	0.440	11.18	I400855	88	131	I400866	83	124
12	6	0.440	11.18	I601255	88	131	I601266	83	124
18	6	0.440	11.18	I601855	88	131	I601866	83	124
24	6	0.440	11.18	I602455	88	131	I602466	83	124
36	6	0.440	11.18	I603655	88	131	I603666	83	124
48	12	0.540	13.72	I604855	136	202	I604866	129	192
60	12	0.540	13.72	I606055	136	202	I606066	129	192
72	12	0.540	13.72	I607255	136	202	I607266	129	192

All optical fiber products can be supplied in compliance with RoHS regulations. Please contact Customer Service for more details.

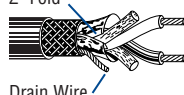
Industrial Data Solutions® — Industrial Twinax

Blue Hose® Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials 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/100m

78 Ohm • 20 AWG Stranded (7x28) .038" TC Conductors • Beldfoil® (100% Coverage) + TC Braid Shield (55% Coverage) • TC Drain Wire

Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket (Color Code: Clear, Blue)

Blue Hose UL AWM Style 2464 (300V 80°C) Z- Fold® 	9463	NEC:	100	30.5	4.2	1.9	20 AWG	.154	3.91	Beldfoil	.238	6.05	78	66%	19.7	64.6	1	.6	2.0
		CM CL2	U-500	U-152.4	18.5	8.4	(7x28)			+55%							10	2.1	6.9
		CEC:	500	152.4	18.5	8.4	.038"			TC Braid							50	5.0	16.4
		CM	U-1000	U-304.8	37.0	16.8	Tinned			4.1Ω/M'							100	7.5	24.6
			1000*	304.8	37.0	16.8	Copper			13.4Ω/km							200	11.0	36.1
			6000*†	1828.8	222.0	100.9	9.5Ω/M'										400	16.0	52.5

10000*† 3048.0 370.0 168.0 31.0Ω/km

CPE jacket optional.

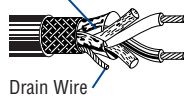
Allen-Bradley P/N 1770-CD • P-7K-SC-182141-MSHA*

*1000 ft. and 6000 ft. put-ups also available in Brown, Orange or Purple.

†10000 ft. put-up available in Brown or Orange only.

†Final put-up length may vary ±10% from length shown.)

Polyethylene Insulation • Blue Sunlight-resistant LDPE Jacket (Color Code: Clear, Blue)

Flooded Direct Burial Blue Hose 300V 80°C Z- Fold® 	9463DB	—	1000	304.8	33.0	15.0	20 AWG	.154	3.91	Beldfoil	.240	6.10	78	66%	19.7	64.6	1	.6	2.0
			5000	1524.0	155.0	70.4	(7x28)			+55%							10	2.1	6.9
							.038"			TC Braid							50	5.0	16.4
							Tinned			4.1Ω/M'							100	7.5	24.6
							Copper			13.4Ω/km							200	11.0	36.1
							9.5Ω/M'										400	16.0	52.5

31.0Ω/km

Allen-Bradley P/N 1770-CD

78 Ohm • 20 AWG Stranded (42x36) .038" TC Conductors • Overall Beldfoil (100% Coverage) + TC Braid Shield (85% Coverage)

Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket (Color Code: Clear, Blue)

High-Flex Blue Hose UL AWM Style 2464 (300V 60°C) Z- Fold® 	9463F	NEC:	1000	304.8	42.0	19.1	20 AWG	.154	3.91	Beldfoil	.243	6.17	78	66%	19.7	64.6	1	.6	2.0
		CM CL2	5000	1524.0	205.0	93.1	(42x36)			+85%							10	2.1	6.9
		CEC:					.038"			TC Braid							50	5.0	16.4
		CM					Tinned			5.0Ω/M'							100	7.5	24.6
							Copper			6.4Ω/km							200	11.0	36.1
							9.5Ω/M'										400	16.0	52.5

31.0Ω/km

Allen-Bradley P/N 1770-CD • P-7K-SC-182141-MSHA*

78 Ohm • 20 AWG Stranded (7x28) .038" TC Conductors • Overall Beldfoil (100% Coverage) + TC Braid Shield (76% Coverage) • Drain Wire

Plenum • FEP Insulation • Blue FEP Jacket (Color Code: Clear, Blue)

High Temperature Blue Hose 300V 200°C Z- Fold® 	89463	NEC:	1000	304.8	34.0	15.4	20 AWG	.151	3.83	Beldfoil	.203	5.16	78	69%	19.7	64.6	1	.6	2.0
		CMP CL2P	2500	762.0	90.0	40.9	(7x28)			+76%							10	2.1	6.9
		CEC:					.038"			TC Braid							50	5.0	16.4
		CMP FT6					Tinned			4.1Ω/M'							100	7.5	24.6
							Copper			13.4Ω/km							200	11.0	36.1
							9.5Ω/M'										400	16.0	52.5

31.0Ω/km

Allen-Bradley P/N 1770-CD

DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • LDPE = Low-density Polyethylene • TC = Tinned Copper

*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

UL Instrumentation Cable

300V Power-Limited Tray Cables — Overview

Construction

Soft annealed bare or tinned copper with PVC flame retardant insulation and jacket. Other insulation and jacket options are available (see table below). Communication wire included on all multi-pair/multi-triad 1000 and 3000 series part numbers, 22 AWG (7x30) bare copper, orange PVC insulation. Nylon rip cord included in all PVC/PVC instrumentation cables.

Other Construction Options:

UL Listed for PLTC	
Insulation/Jacket	Max. Temp Rating
XLPE/PVC	90°C
XLPE/CPE	90°C
PVC/PVC	105°C
PVC/CPE	105°C
PE/PVC	75°C
FPE/PVC	75°C
TPE/TPE	105°C
XLPE/Haloarrest®	90°C

Armoring Capabilities

Belden also has the capability to protect electronic, instrumentation and control cables with interlocking or continuous armor and smooth or corrugated protective metal tapes.

To Specify Part Number		
1	2	3456
Overall Jacket Type	Armor Type	Core Trade Number

Overall Jacket

Code	Material
1	PVC
3	CPE
4	TPE
5	HDPE
6	Oil Res II
7	Haloarrest® I

Armor

Code	Material
2	Aluminum Interlock
3	Steel Interlock
8	Continuously Corrugated Aluminum

Application

Cable jackets are resistant to sunlight, moisture and vapor penetration. PVC/PVC constructions, with 3 conductors or more and 20 AWG or larger, are suitable for direct burial.

Unshielded

Twisted non-shielded pairs and triads provide a minimal OD allowing greater tray and conduit fill. Non-shielded instrument pairs may be utilized when recommended by the instrument manufacturer and used in a metallic conduit.

Overall Shield

Recommended for use in instrumentation applications where signals are transmitted in excess of 100 millivolts except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness.

Individually Shielded and Overall Shielded

Individually shielded pairs or triads with an overall shield are recommended for use in instrumentation applications where optimum noise rejection is required. Individual pair/triad shields are fully isolated from each other and contain a separate drain wire for grounding, to provide maximum protection from crosstalk and common mode interference. Cables with an overall shield provide additional electrostatic noise protection.

Specifications

- UL Subject 13
- UL Subject 2250
- NEC Article 725 Class 2 and Class 3 Circuits
- NEC Type PLTC Listed, which is approved for cable tray use in Class 1, Division 2, hazardous areas and non-hazardous areas, cable trays, raceways, conduit and supported by messenger wires.
- Sunlight-resistant.
- Oil-resistant per UL Class 43
- NEC Type ITC per Article 727. ITC cables may carry up to 5 amps at 150V, which is significantly greater than that allowed for PLTC only cables. ITC cables may also be installed in specific applications, per the NEC, in addition to those allowed for PLTC.
- UL 1685 (UL 1581) Vertical Tray Flame Test comparable to IEEE 383-1974 (70,000 BTU/hr.) Flame Test.
- PVC/PVC constructions are CMG, FT4, IEEE 1202 and IEEE 383-2003 rated, and meet ICEA T-29-520 Flame Test.
- Design options — call 1-800-BELDEN-1 or 1-800-BELDEN-3.

PLTC-ER

As an option, Belden offers all PVC insulated, PVC jacketed instrumentation cables, and several other insulation and jackets, with a PLTC-ER (Exposed Run) rating, formerly referred to as Open Wiring.

Per NEC Article 725, a PLTC-ER rated cable may be installed in an industrial establishment between a cable tray and the utilization equipment or device. A PLTC-ER rated cable must meet the crush and impact requirements of UL Type MC cable. By eliminating the need for metal conduit and/or armor, using a PLTC-ER rated cable results in savings in both installation and maintenance.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1 or 1-800-BELDEN-3.

UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

22 AWG Pairs Stranded (7x30) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Chrome PVC Jacket**

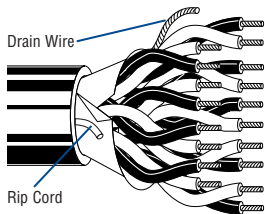
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9407	1	E2	U-500 U-1000	152.4 U-304.8	10.0 19.0	4.3 8.2	.037 .94	.198	5.03	19	84	2.00	50.80
---	------	---	----	-----------------	------------------	--------------	------------	-------------	------	------	----	----	------	-------



Rip Cord

Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9322	1	E2	U-500 U-1000	152.4 U-304.8	11.0 22.0	5.0 10.0	.037 .94	.201	5.10	28	124	2.00	50.80
	9512	2	E2	500 1000	152.4 304.8	22.0 42.0	10.0 19.1	.042 1.07	.310	7.82	46	204	3.00	76.20
	9513	3	E2	500 1000	152.4 304.8	26.5 51.0	11.6 23.2	.042 1.07	.324	8.23	63	280	3.25	82.55
	9514	4	E2	500 1000	152.4 304.8	33.0 67.0	14.8 30.5	.042 1.07	.356	9.04	80	355	3.50	88.90
	9516	6	E2	500 1000	152.4 304.8	45.0 89.0	20.4 40.4	.053 1.35	.418	10.62	118	524	4.25	107.95
	9520	9	E2	500 1000	152.4 304.8	64.5 121.0	29.3 55.0	.053 1.35	.482	12.29	172	765	4.75	120.65
	9521	11	E2	500 1000	152.4 304.8	73.0 147.0	32.7 66.4	.053 1.35	.506	12.85	200	889	5.35	135.89
	9524	15	E2	500 1000	152.4 304.8	89.5 178.0	40.7 80.9	.053 1.35	.594	15.09	280	1245	6.00	152.40
	9526	19	E2	500 1000	152.4 304.8	114.5 224.0	52.0 101.8	.063 1.60	.644	16.36	350	1557	6.33	160.78
	9527	27	E2	500 1000†	152.4 304.8	156.5 321.0	71.1 145.9	.063 1.60	.763	19.38	500	2224	7.50	190.50



Rip Cord

22 AWG Pairs Stranded (7x30) Bare Copper Conductors* • Twisted Pairs**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3000A**	2	E1	Bulk††	Bulk	—	—	.043	1.09	.310	7.87	46	204	3.00	76.20
	3004A**	4	E1	Bulk††	Bulk	—	—	.042	1.07	.357	9.01	80	355	3.50	88.90
	3006A**	8	E1	Bulk††	Bulk	—	—	.053	1.35	.450	11.43	172	765	4.75	120.65
	3008A**	12	E1	Bulk††	Bulk	—	—	.053	1.35	.536	13.61	210	934	5.00	127.00
	3010A**	16	E1	Bulk††	Bulk	—	—	.053	1.35	.594	15.09	290	1290	6.00	152.40
	3012A**	24	E1	Bulk††	Bulk	—	—	.065	1.65	.749	19.02	440	1957	7.50	190.50
	3014A**	50	E1	Bulk††	Bulk	—	—	.075	1.91	1.017	25.80	915	4070	9.50	241.30



Rip Cord

Communication Wire

PVC = Polyvinyl Chloride

*For tinned copper conductors, order with B suffix.

**For Exposed Run rated cable (3000 series only), order with E suffix, e.g. 3000AE.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

E1, E2 = Refer to Industrial Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

UL Instrumentation Cable

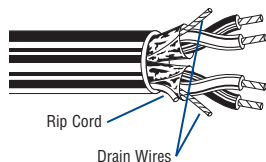
300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

22 AWG Pairs Stranded (7x30) Tinned Copper Conductors • Twisted Pairs**Individually Shielded • PVC Insulation • Chrome PVC Jacket**

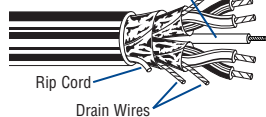
NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



9328	2	E2	500	152.4	23.5	10.2	.042	1.07	.323	8.20	54	240	3.00	76.20
			1000	304.8	46.0	20.9								
9329	3	E2	500	152.4	29.5	13.4	.042	1.07	.341	8.66	54	240	3.50	88.90
			1000	304.8	60.0	27.3								
9330	4	E2	500	152.4	39.0	17.7	.042	1.07	.372	9.45	110	489	3.50	88.90
			1000	304.8	75.0	34.0								
9331	6	E2	500	152.4	55.0	24.5	.053	1.35	.457	11.61	101	449	4.33	109.98
			1000	304.8	111.0	50.4								
9332	9	E2	500	152.4	75.0	34.1	.053	1.35	.530	13.46	160	711	5.00	127.00
			1000	304.8	145.0	65.9								
9333	11	E2	500	152.4	89.0	40.5	.053	1.35	.592	15.04	160	711	5.50	139.70
			1000	304.8	177.0	80.5								
9335	19	E2	500	152.4	141.5	64.3	.063	1.60	.711	18.06	264	1174	6.50	165.10
			1000	304.8	287.0	130.5								

22 AWG Pairs Stranded (7x30) Bare Copper Conductors* • Twisted Pairs**Individually Shielded + Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)**

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



3001A[†]	2	E1	Bulk ^{††}	Bulk	—	—	.042	1.07	.324	8.23	54	240	3.25	82.55
3005A[†]	4	E1	Bulk ^{††}	Bulk	—	—	.043	1.09	.360	9.14	115	511	3.50	88.90
3007A[†]	8	E1	Bulk ^{††}	Bulk	—	—	.053	1.35	.497	12.62	250	1112	5.25	133.35
3009A[†]	12	E1	Bulk ^{††}	Bulk	—	—	.053	1.35	.570	14.48	300	1334	5.75	146.05
3011A[†]	16	E1	Bulk ^{††}	Bulk	—	—	.064	1.63	.674	17.12	350	1557	6.25	158.75
3013A[†]	24	E1	Bulk ^{††}	Bulk	—	—	.065	1.65	.800	20.32	540	2402	8.00	203.20
3015A[†]	50	E1	Bulk ^{††}	Bulk	—	—	.075	1.91	1.050	26.67	1330	5916	10.50	266.70

22 AWG Triads Stranded (7x30) Tinned Copper Conductors • Twisted Triads**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



9491	1	E1	U-500	U-152.4	12.5	5.7	.037	.94	.208	5.28	29	129	2.00	50.80
			U-1000	U-304.8	23.0	10.4								

Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

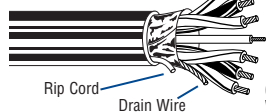
NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



9363	1	E1	U-500	U-152.4	13.5	6.1	.037	.94	.208	5.28	29	129	2.00	50.80
			U-1000	U-304.8	26.0	11.8								

22 AWG Triads Stranded (7x30) Bare Copper Conductors* • Twisted Triads**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)**

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520

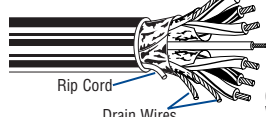


3002A	2	E1	Bulk ^{††}	Bulk	—	—	.043	1.09	.330	8.38	62	275	3.50	88.90
--------------	---	----	--------------------	------	---	---	------	------	------	------	----	-----	------	-------

For Exposed Run rated cable, order 3002AE

Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



3003A	2	E1	Bulk ^{††}	Bulk	—	—	.043	1.09	.330	8.38	82	364	3.25	82.55
--------------	---	----	--------------------	------	---	---	------	------	------	------	----	-----	------	-------

For Exposed Run rated cable, order 3003AE

*For tinned copper conductors, order with B suffix.

†For Exposed Run rated 3000 series cables, order with "E" suffix, e.g. 3001AE.

E1, E2 = Refer to Technical Information section for color code. Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

††Bulk = Check length available for specific construction.

BELDENFor more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.comBelden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable**300V Power-Limited Tray Cables****Industrial Grade Sunlight- and Oil-Resistant Jackets**

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

20 AWG Pairs Stranded (19x32) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9408	1	E2	U-500 U-1000	U-152.4 U-304.8	12.0 23.0	5.5 10.4	.037 .94	.214 5.44	31 138	2.00 50.80
---	-------------	---	----	-----------------	--------------------	--------------	-------------	-------------	--------------	-----------	---------------



Rip Cord

Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9320	1	E2	U-500 U-1000	U-152.4 U-304.8	14.5 28.0	6.6 12.7	.037 .94	.217 5.51	40 178	2.00 50.80
---	-------------	---	----	-----------------	--------------------	--------------	-------------	-------------	--------------	-----------	---------------

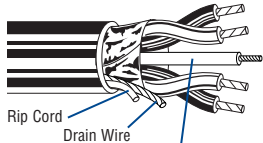


Rip Cord

Drain Wire

20 AWG Pairs Stranded (7x28) Bare Copper Conductors • Twisted Pairs**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket** (See chart below for other options)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1033A	1	E1	1000 10000 †	304.8 3048.0	30.0 270.0	13.6 122.5	.037 .94	.213 5.41	42 187	2.25 57.15
	3016A	2	E1	Bulk ††	Bulk	—	—	.042 1.07	.332 8.43	92 409	3.75 95.25
	1056A	4	E1	10000 †	3048.0	820.0	372.0	.053 1.35	.408 10.36	135 601	4.25 107.95
	1057A	8	E1	10000 †	3048.0	1410.0	640.2	.053 1.35	.472 11.99	247 1099	5.00 127.00
	1058A	12	E1	7500 †	2286.0	1455.0	660.0	.053 1.35	.564 14.33	359 1597	6.00 152.40
	1059A	16	E1	5000 †	1524.0	1275.0	578.9	.064 1.63	.649 16.48	232 1032	6.50 165.10
	1060A	24	E1	5000 †	1524.0	1735.0	787.7	.064 1.63	.786 19.96	695 3092	8.25 209.55
	1061A	36	E1	2500 †	762.0	1300.0	590.2	.074 1.88	.960 24.38	1031 4587	10.00 254.00
	1062A	50	E1	2500 †	762.0	1825.0	827.8	.074 1.88	1.117 28.37	1423 6330	11.50 292.10



Rip Cord

Drain Wire

Communication Wire

Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1075A	2	E1	10000 †	3048.0	650.0	294.8	.042 1.07	.337 8.56	97 432	3.75 95.25
	1076A	4	E1	7500 †	2286.0	787.5	357.5	.053 1.35	.411 10.44	171 761	4.50 114.30
	1077A	8	E1	7500 †	2286.0	1297.5	588.6	.053 1.35	.514 13.06	320 1424	5.50 139.70
	1078A	12	E1	7500 †	2286.0	1942.5	881.1	.064 1.63	.637 16.18	468 2082	6.75 171.45
	1079A	16	E1	5000 †	1524.0	1555.0	705.4	.064 1.63	.704 17.88	617 2745	7.50 190.50
	1091A	20	E1	Bulk ††	Bulk	—	—	.064 1.63	.780 19.81	765 3403	8.25 209.55
	1080A	24	E1	2500 †	762.0	1142.5	518.2	.074 1.88	.863 21.92	914 4066	9.00 228.60
	1081A	36	E1	2000 †	609.6	1436.0	651.9	.074 1.88	1.035 26.29	1359 6046	10.50 266.70
	1082A	50	E1	2000 †	609.6	1858.0	843.5	.074 1.88	1.215 30.86	1878 8355	12.75 323.85

F-R = Flame-retardant

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

E1, E2 = Refer to Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

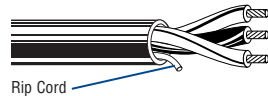
BELDENFor more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com****Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr**

UL Instrumentation Cable**300V Power-Limited Tray Cables****Industrial Grade Sunlight- and Oil-Resistant Jackets**

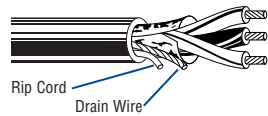
Description	Part No.	No. of Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

20 AWG Triads Stranded (19x32) Tinned Copper Conductors • Twisted Triads**Unshielded • PVC Insulation • Chrome PVC Jacket**

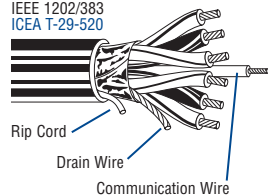
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9492	1	E1	U-500 U-1000	U-152.4 U-304.8	15.5 29.0	7.0 13.2	.037 .94	.225 5.72	46 205	2.25 57.15
---	-------------	---	----	-----------------	--------------------	--------------	-------------	-------------	--------------	-----------	---------------

**Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9364	1	E1	U-500 U-1000	U-152.4 U-304.8	17.0 32.0	7.7 14.5	.037 .94	.228 5.79	46 205	2.25 57.15
---	-------------	---	----	-----------------	--------------------	--------------	-------------	-------------	--------------	-----------	---------------

**20 AWG Triads Stranded (7x28) Bare Copper Conductors • Twisted Triads****Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1526A	1	E1	10000 [†]	3048.0	310.0	140.6	.037 .94	.215 5.46	42 187	2.20 55.88
	3017A	2	E1	Bulk ^{††}	Bulk	—	—	.055 1.40	.360 9.14	97 432	3.60 91.44
	3020A	4	E1	Bulk ^{††}	Bulk	—	—	.055 1.40	.470 11.94	174 774	4.75 120.65
	3021A	8	E1	Bulk ^{††}	Bulk	—	—	.055 1.40	.560 14.22	330 1468	5.00 127.00
	3022A	12	E1	Bulk ^{††}	Bulk	—	—	.066 1.68	.710 18.03	485 2158	7.00 177.80
	3023A	16	E1	Bulk ^{††}	Bulk	—	—	.064 1.63	.821 20.85	600 2669	7.75 196.85
	3024A	24	E1	Bulk ^{††}	Bulk	—	—	.074 1.88	1.031 26.19	920 4093	9.25 234.95

**Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3018A	2	E1	Bulk ^{††}	Bulk	—	—	.055 1.40	.372 9.45	102 454	3.75 95.25
	1083A	4	E1	10000 [†]	3048.0	1410.8	640.9	.053 1.35	.451 11.46	228 1014	4.50 114.30
	1084A	8	E1	7500 [†]	2286.0	1755.0	796.1	.064 1.63	.575 10.81	432 1922	5.75 146.05
	1085A	12	E1	5000 [†]	1524.0	1735.0	787.0	.064 1.63	.714 18.14	636 2829	7.15 181.61
	1092A	16	E1	Bulk ^{††}	Bulk	—	—	.064 1.63	.793 20.14	841 3741	7.90 200.66
	1086A	24	E1	2500 [†]	762.0	1602.5	726.9	.074 1.88	.992 25.20	1250 5561	9.90 251.46
	3067A	36	E1	Bulk ^{††}	Bulk	—	—	.074 1.88	1.292 32.82	1875 6273	13.00 330.20

[†]Final put-up length may vary ±10% from length shown.^{††}Bulk = Check length available for specific construction.

E1 = Refer to Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

Conductor, Insulation and Jacket Options****To Specify:**

1234	A	E
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired

Bare	Tinned	Insulation/Jacket
A	B	PVC/PVC
C	D	XLPE/PVC
K	L	TPE/TPE
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

18 AWG Pairs Stranded (19x30) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520

9409	1	E2	U-500	U-152.4	15.0	6.8	.037	.94	.230	5.84	49	218	2.25	57.15
			U-1000	U-304.8	28.0	12.7								

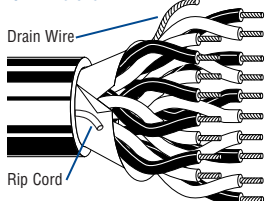


Rip Cord

Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520

9318	1	E2	U-500	U-152.4	17.5	7.9	.037	.94	.233	5.92	60	267	2.25	57.15
			U-1000	U-304.8	33.0	15.0								
9552	2	E2	500	152.4	35.5	16.1	.042	1.07	.368	9.34	65	289	3.70	93.98
			1000	304.8	69.0	31.4								
9553	3	E2	500	152.4	49.5	22.0	.053	1.35	.411	10.44	145	645	4.10	104.14
			1000	304.8	98.0	49.4								
9554	4	E2	500	152.4	57.0	25.8	.053	1.35	.447	11.35	187	832	4.50	114.30
			1000	304.8	112.0	50.8								
9556	6	E2	500	152.4	78.5	35.7	.053	1.35	.497	12.62	270	1201	5.00	127.00
			1000	304.8	153.0	69.5								
9559	9	E2	500	152.4	108.0	49.0	.053	1.35	.579	14.71	395	1757	5.80	147.32
			1000	304.8	215.0	97.6								
9563	11	E2	500	152.4	133.0	60.4	.063	1.60	.665	16.89	478	2126	6.75	171.45
			1000	304.8	270.0	122.5								
9565	15	E2	500	152.4	169.0	76.8	.063	1.60	.739	18.77	640	2847	7.50	190.50
			1000	304.8	342.0	155.5								

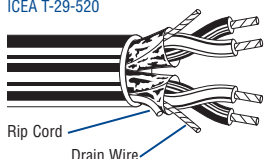


Rip Cord

Individually Shielded (100% Coverage) • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520

9368	2	E2	500	152.4	37.5	17.0	.042	1.07	.378	9.60	125	556	3.75	95.25
			1000	304.8	73.0	33.2								
9369	3	E2	500	152.4	55.0	25.0	.053	1.35	.423	10.74	220	979	4.25	107.95
			1000	304.8	109.0	49.5								
3029A	4	E1	Bulk †	Bulk	—	—	.053	1.35	.461	11.71	296	1317	4.50	114.30
9388	4	E2	500	152.4	71.5	32.5	.053	1.35	.461	11.71	296	1317	4.60	116.84
			1000	304.8	135.0	61.4								
9389	6	E2	500	152.4	97.0	44.1	.053	1.35	.538	13.67	440	1957	5.25	133.35
			1000	304.8	190.0	86.4								
9390	9	E2	500	152.4	137.5	63.0	.064	1.63	.652	16.56	666	2963	6.50	165.10
			1000	304.8	270.0	123.6								
9391	11	E2	500	152.4	158.5	72.0	.064	1.63	.729	18.52	815	3626	7.25	184.15
			1000	304.8	321.0	145.9								
9392	15	E2	500	152.4	209.0	95.0	.064	1.63	.808	20.52	1100	4893	8.00	203.20
			1000	304.8	428.0	194.5								



Rip Cord

Drain Wire

E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

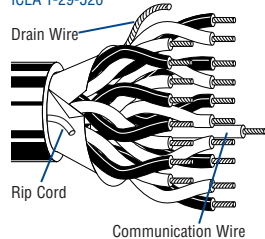
300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

18 AWG Pairs Stranded (7x26) Bare Copper Conductors • Twisted Pairs**Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Black PVC Jacket** (See chart below for other options)

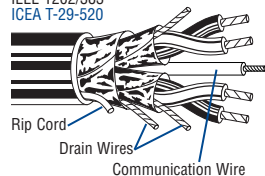
NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



1032A	1	E1	1000	304.8	38.0	17.2	.037	.94	.233	5.92	67	298	2.50	63.50
3025A	2	E1	10000 [†]	3048.0	760.0	344.7	.042	1.07	.375	9.53	121	538	3.50	88.90
1529A	3	E1	7500 [†]	2286.0	735.0	333.4	.053	1.35	.415	10.54	165	734	4.25	107.95
1466A	4	E1	7500 [†]	2286.0	892.5	404.8	.053	1.35	.452	11.48	211	939	4.50	114.30
1467A	8	E1	7500 [†]	2286.0	1477.5	670.8	.053	1.35	.523	13.28	390	1735	5.50	139.70
1468A	12	E1	5000 [†]	1524.0	1375.0	624.3	.064	1.63	.673	17.09	560	2491	6.75	171.45
3034A	16	E1	Bulk ^{††}	Bulk	—	—	.066	1.68	.713	18.11	640	2847	7.25	184.15
1471A	24	E1	2500 [†]	762.0	1292.5	586.3	.074	1.88	.932	23.67	1105	4916	9.25	234.95
1472A	36	E1	1250 [†]	381.0	910.0	413.1	.074	1.88	1.062	26.97	1644	7313	10.50	266.70
3041A	50	E1	Bulk ^{††}	Bulk	—	—	.074	1.88	1.240	31.50	2240	10049	12.75	323.85

Individually Shielded + Overall Beldfoil (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)

NEC: PLTC, ITC, CMG
CEC: CMG FT4
IEEE 1202/383
ICEA T-29-520



1474A	2	E1	7500 [†]	2286.0	720.0	326.9	.053	1.35	.408	10.16	149	663	4.00	101.60
1475A	4	E1	7500 [†]	2286.0	1065.0	483.1	.053	1.35	.468	11.89	267	1188	4.75	120.65
1476A	8	E1	5000 [†]	1524.0	1185.0	538.0	.053	1.35	.594	15.10	501	2229	6.00	152.40
1477A	12	E1	5000 [†]	1524.0	1740.0	789.3	.064	1.63	.737	18.72	779	3465	7.25	184.15
3035A	16	E1	Bulk ^{††}	Bulk	—	—	.064	1.63	.836	21.20	725	3225	8.50	215.90
1480A	24	E1	2500 [†]	762.0	1712.5	777.5	.074	1.88	1.019	25.88	1443	6419	10.25	260.35
			5000 [†]	1524.0	3390.0	1539.1								
1481A	36	E1	Bulk ^{††}	Bulk	—	—	.074	1.88	1.163	29.54	2148	9556	11.75	298.45
3042A	50	E1	Bulk ^{††}	Bulk	—	—	.084	2.13	1.389	35.28	2935	13057	14.00	355.60

E1 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

[†]Final put-up length may vary ±10% from length shown.^{††}Bulk = Check length available for specific construction.**Conductor, Insulation and Jacket Options****

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDENFor more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.comBelden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

18 AWG Triads Stranded (19x30) Tinned Copper Conductors • Twisted Triads

Unshielded • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9493	1	E1	U-500 U-1000	U-152.4 U-304.8	20.0 38.0	9.1 17.2	.037 .94	.242	6.15	62	276	2.25	57.15
---	------	---	----	-----------------	--------------------	--------------	-------------	-------------	------	------	----	-----	------	-------



Rip Cord

Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

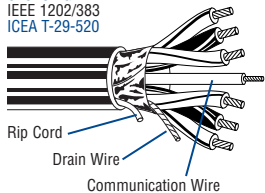
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9365	1	E1	U-500 U-1000	U-152.4 U-304.8	22.0 43.0	10.0 19.5	.037 .94	.245	6.22	74	329	2.50	63.50
---	------	---	----	-----------------	--------------------	--------------	--------------	-------------	------	------	----	-----	------	-------

Rip Cord
Drain Wire

18 AWG Triads Stranded (7x26) Bare Copper Conductors • Twisted Triads

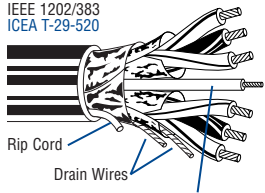
Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520  Rip Cord	1036A	1	E1	1000 10000 †	304.8 3048.0	43.0 430.0	19.5 195.1	.037 .94	.236	5.99	90	400	2.40	60.96	
	3027A	2	E1	Bulk ††	Bulk	—	—	.055	1.40	.420	10.67	165	734	4.25	107.95
	3030A	4	E1	Bulk ††	Bulk	—	—	.055	1.40	.521	13.20	240	1068	4.50	114.30
	3032A	8	E1	Bulk ††	Bulk	—	—	.064	1.63	.580	14.70	501	2229	5.75	146.05
	3036A	16	E1	Bulk ††	Bulk	—	—	.077	1.96	.900	22.86	1050	4671	9.00	228.60
	3038A	24	E1	Bulk ††	Bulk	—	—	.077	1.96	1.020	25.91	1450	6450	10.25	260.35

Rip Cord
Drain Wire
Communication Wire

Individually Shielded + Overall Beldfoil (100% Coverage) • PVC Insulation • Black PVC Jacket (Other options below)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3028A	2	E1	Bulk ††	Bulk	—	—	.055	1.40	.450	11.43	175	779	4.50	114.30
	3031A	4	E1	Bulk ††	Bulk	—	—	.053	1.35	.533	13.50	255	1134	5.25	133.35
	3033A	8	E1	Bulk ††	Bulk	—	—	.064	1.63	.654	16.50	560	2491	6.50	165.10
	3068A	12	E1	Bulk ††	Bulk	—	—	.063	1.60	.840	21.30	800	3559	8.50	215.90
	3037A	16	E1	Bulk ††	Bulk	—	—	.074	1.88	.974	24.70	1320	5872	10.50	266.70
	3039A	24	E1	Bulk ††	Bulk	—	—	.074	1.88	1.200	30.50	1620	7207	11.25	285.75

Rip Cord
Drain Wires
Communication Wire

E1 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

16 AWG Pairs Stranded (19x29) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9410	1	E2	U-500 U-1000	U-152.4 U-304.8	18.5 36.0	8.4 16.3	.037	.94	.254	6.45	78	347	2.50	63.50
---	-------------	---	----	-----------------	--------------------	--------------	-------------	------	-----	------	------	----	-----	------	-------



Rip Cord

Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9316	1	E2	U-500 U-1000	U-152.4 U-304.8	21.5 41.0	9.8 18.6	.037	.94	.256	6.50	90	400	2.50	63.50
---	-------------	---	----	-----------------	--------------------	--------------	-------------	------	-----	------	------	----	-----	------	-------



Rip Cord

Drain Wire

16 AWG Pairs Stranded (7x24) Bare Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Black PVC Jacket** (See chart below for other insulation and jacket options)

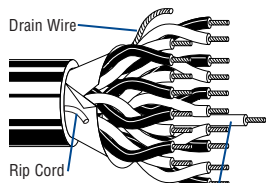
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1035A	1	E1	1000 10000 †	304.8 3048.0	40.0 400.0	18.1 181.4	.037	.94	.254	6.45	71	318	2.50	63.50
---	--------------	---	----	-----------------	-----------------	---------------	---------------	------	-----	------	------	----	-----	------	-------



Rip Cord

Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1030A	1	E1	1000 10000 †	304.8 3048.0	46.0 480.0	20.9 217.7	.037	.94	.257	6.53	94	418	2.50	63.50
	3043A	2	E1	Bulk ††	Bulk	—	—	.053	1.35	.437	11.10	83	369	4.50	114.30
	1528A	3	E1	7500 †	2286.0	967.5	438.9	.053	1.35	.457	11.61	250	1112	4.75	120.65
	1484A	4	E1	7500 †	2286.0	1200.0	544.8	.053	1.35	.495	12.57	330	1468	5.00	127.00
	1485A	8	E1	7500 †	2286.0	2010.0	911.7	.053	1.35	.597	15.16	616	2740	6.00	152.40
	1486A	12	E1	5000 †	1524.0	1965.0	892.1	.064	1.63	.741	18.80	892	3968	7.50	190.50
	3050A	16	E1	Bulk ††	Bulk	—	—	.064	1.63	.831	21.10	661	2940	8.50	215.90
	1489A	24	E1	1250 †	381.0	923.8	419.4	.074	1.88	1.032	26.20	1749	7780	10.50	266.70
	1490A	36	E1	1250 †	381.0	1313.8	596.4	.074	1.88	1.178	29.80	2606	11592	11.75	298.45
	3056A	50	E1	Bulk ††	Bulk	—	—	.088	2.24	1.550	39.37	3615	16082	15.50	393.70

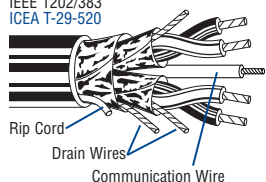


Rip Cord

Communication Wire

Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (Options below)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1492A	2	E1	7500 †	2286.0	885.0	401.8	.053	1.35	.450	11.43	232	1032	4.50	114.30
	1493A	4	E1	7500 †	2286.0	1387.5	629.4	.055	1.40	.512	13.11	420	1868	5.00	127.00
	1494A	8	E1	5000 †	1524.0	1640.0	743.9	.066	1.68	.687	17.50	795	3537	7.00	177.80
	1495A	12	E1	2500 †	762.0	1202.5	545.5	.066	1.68	.822	20.73	1170	5205	8.25	209.55
	3051A	16	E1	Bulk ††	Bulk	—	—	.074	1.88	.936	23.77	661	2940	10.00	254.00
	1498A	24	E1	5000 †	1524.0	4340.0	1968.6	.074	1.88	1.149	29.18	2296	10214	11.50	292.10
	1499A	36	E1	Bulk ††	Bulk	—	—	.084	2.13	1.334	33.88	3167	14088	13.50	342.90
	3057A	50	E1	Bulk ††	Bulk	—	—	.088	2.24	1.600	40.64	2066	9190	16.00	406.40



Rip Cord

Drain Wires

Communication Wire

E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

16 AWG Triads Stranded (19x29) Tinned Copper Conductors • Twisted Triads**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9494	1	E1	U-500 U-1000	U-152.4 U-304.8	24.5 48.0	11.1 21.8	.037 .94	.268 6.81	91 405	2.75 69.85
---	------	---	----	-----------------	--------------------	--------------	--------------	-------------	--------------	-----------	---------------



Rip Cord

Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9366	1	E1	U-500 U-1000	U-152.4 U-304.8	27.5 54.0	12.5 24.5	.037 .94	.270 6.86	116 516	2.75 69.85
---	------	---	----	-----------------	--------------------	--------------	--------------	-------------	--------------	------------	---------------

Rip Cord
Drain Wire**16 AWG Triads Stranded (7x24) Bare Copper Conductors • Twisted Triads****Unshielded • PVC Insulation • Black PVC Jacket (See chart below for other options)**

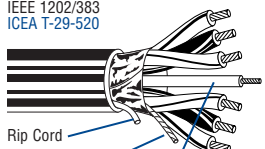
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	1034A	1	E1	1000 4000 †	304.8 1219.2	51.0 208.0	23.2 94.4	.037 .94	.268 6.81	107 476	2.75 69.85
---	-------	---	----	----------------	-----------------	---------------	--------------	-------------	--------------	------------	---------------



Rip Cord

Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520  Rip Cord	1031A	1	E1	1000 10000 †	304.8 3048.0	58.0 610.0	26.4 276.7	.037 .94	.271 6.88	130 578	2.75 69.85				
	3044A	2	E1	Bulk ††	Bulk	—	—	.053	1.35	.483	12.27	259	1152	4.75	120.65
	3046A	4	E1	Bulk ††	Bulk	—	—	.053	1.35	.570	14.40	473	2104	5.75	146.05
	3048A	8	E1	Bulk ††	Bulk	—	—	.063	1.60	.760	19.30	902	4013	7.50	190.50
	3052A	16	E1	Bulk ††	Bulk	—	—	.074	1.88	1.032	26.21	1758	7821	11.25	285.75
	3054A	24	E1	Bulk ††	Bulk	—	—	.074	1.88	1.180	29.90	2615	11633	11.75	298.45

Rip Cord
Drain Wire
Communication Wire**Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (Options below)**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3045A	2	E1	Bulk ††	Bulk	—	—	.053	1.35	.506	12.80	304	1352	5.00	127.00
	3047A	4	E1	Bulk ††	Bulk	—	—	.053	1.35	.569	14.45	563	2505	6.00	152.40
	3049A	8	E1	Bulk ††	Bulk	—	—	.064	1.63	.764	19.41	1081	4809	8.00	203.20
	3069A	12	E1	Bulk ††	Bulk	—	—	.074	1.88	.998	25.35	1500	6673	10.00	254.00
	3053A	16	E1	Bulk ††	Bulk	—	—	.074	1.88	1.150	29.20	2117	9418	11.50	292.10
	3055A	24	E1	Bulk ††	Bulk	—	—	.084	2.13	1.320	33.53	3153	14026	13.25	336.55

Rip Cord
Drain Wires
Communication Wire

E1 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

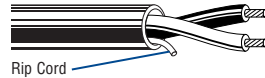
300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

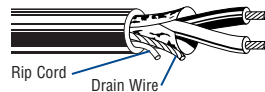
Description	Part No.	No. of Pairs/Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

14 AWG Pairs Stranded (42x30) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Chrome PVC Jacket**

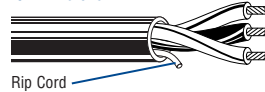
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9411	1	E2	U-500 1000	U-152.4 304.8	28.0 60.0	12.7 27.3	.042	1.07	.322	8.18	124	552	3.25	82.55
--	-------------	---	----	---------------	------------------	--------------	--------------	------	------	------	------	-----	-----	------	-------

**Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket**

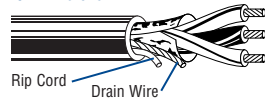
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9314	1	E2	U-500 1000	U-152.4 304.8	32.5 66.0	14.7 29.9	.042	1.07	.324	8.23	140	623	3.25	82.55
--	-------------	---	----	---------------	------------------	--------------	--------------	------	------	------	------	-----	-----	------	-------

**14 AWG Triads** Stranded (42x30) Tinned Copper Conductors • Twisted Triads**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9495	1	E1	500 1000	152.4 304.8	43.5 86.0	19.7 39.0	.042	1.07	.340	8.64	186	827	3.50	88.90
--	-------------	---	----	-------------	----------------	--------------	--------------	------	------	------	------	-----	-----	------	-------

**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9367	1	E1	500 1000	152.4 304.8	43.5 88.0	19.7 40.0	.042	1.07	.343	8.71	188	836	3.50	88.90
--	-------------	---	----	-------------	----------------	--------------	--------------	------	------	------	------	-----	-----	------	-------



E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

UL Instrumentation Cable

300V Power-Limited Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

12 AWG Pairs Stranded (65x30) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CL3R	9412	1	E2	500	152.4	41.5	18.8	.042	1.07	.370	9.40	197	876	4.25	107.95
CEC: FT4				1000	304.8	83.0	37.7								
IEEE 1202/383 ICEA T-29-520															



Rip Cord

Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CL3R	9312	1	E2	500	152.4	49.0	22.3	.042	1.07	.373	9.47	225	1001	4.25	107.95
CEC: FT4				1000	304.8	96.0	43.6								
IEEE 1202/383 ICEA T-29-520															



Rip Cord

Drain Wire

12 AWG Triads Stranded (7x20) Bare Copper Conductors • Twisted Triads**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket** (See chart below for other options)

NEC: PLTC, ITC, CL3R	3102A	1	E1	Bulk †	Bulk	—	—	.053	1.35	.432	11.00	315	1401	3.50	88.90
CEC: FT4															
IEEE 1202/383 ICEA T-29-520															



Rip Cord

Drain Wire

E1, E2 = Refer to Technical Information section for color code.

Alternate color coding available upon request.

†Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDENFor more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.comBelden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

600V Tray Cables – Overview

Tray Cable Construction Options

UL Listed for MC and TC				
Insulation/Jacket	Max. Temp Rating		Flame Tests	Ratings*
	Wet	Dry		
PVC-Nylon/PVC (THHN or THWN) 14 AWG & larger	75°C	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	ICEA S-73-532 ICEA S-61-402
PVC-Nylon/PVC (TFN or TFFN) 16 & 18 AWG	N/A	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	ICEA S-73-532 ICEA S-61-402
XLPE/PVC or CPE (XHHW-2) 14 AWG & larger	90°C	90°C	UL 1685 FT4/IEEE 1202/383 VW-1 rated singles ICEA T-29-520	ICEA S-73-532 ICEA S-66-524
XLPE/PVC or CPE (RFH-2) 16 & 18 AWG	75°C	75°C	UL 1685 FT4/IEEE 1202/383 VW-1 rated singles ICEA T-29-520	ICEA S-73-532 ICEA S-66-524 ICEA S-82-552
FRPO/PVC 18 AWG & larger	—	75°C	UL 1685	
TPE/TPE	75°C	90°C	UL 1685	
FRPO/PVC	75°C	90°C	UL 1685	
XLPE/Haloarrest® (XHHW-2) 14 AWG & larger	90°C	90°C	UL 1685 ICEA T-29-520 FT4/IEEE 1202/383	TC-LS
XLPE/Haloarrest (RFH-2) 16 & 18 AWG	75°C	75°C	UL 1685 ICEA T-29-520 FT4/IEEE 1202/383	TC-LS
FEP/PVC	90°C	90°C	UL 1685	

CPE = Chlorinated Polyethylene • FEP = Fluorinated Ethylene-propylene • FRPO = Flame-retardant Polyolefin • PVC = Polyvinyl Chloride • TPE = Thermoplastic Elastomer • XLPE = Cross-linked Polyethylene

*Applicable to TC-rated cables only.

Construction

Soft annealed bare or tinned copper conductors. PVC insulated with a nylon overcoat, 90°C PVC Jacket, TFN, TFFN or THHN style singles. Nylon rip cord included in all PVC-Nylon/PVC instrumentation cables.

Application

These cables are suitable for installation in wet or dry locations. Cable jackets are resistant to sunlight, moisture and vapor penetration. The cables can be used in raceways, and (supported by messenger wire), outdoor applications and direct burial applications.

Unshielded

Twisted non-shielded instrument pairs provide a minimal OD allowing greater tray and conduit fill. Non-shielded instrument pairs may be utilized when recommended by the instrument manufacturer and used in a metallic conduit.

Overall Shield

Recommended for use in instrumentation applications where signals are transmitted in excess of 100 millivolts except in areas where high voltage and current sources creates excessive noise interference.

The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness. Copper tape shield available upon request.

Individually Shielded and Overall Shielded

Individually shielded pairs or triads with an overall shield are recommended for use in instrumentation applications where optimum noise rejection is required. Individual pair/triad shields are fully isolated from each other and contain a separate drain wire for grounding, to provide maximum protection from crosstalk and common mode interference. Cables with an overall shield provide additional electrostatic noise protection.

Conductor, Insulation and Jacket Options*

To Specify:		Bare	Tinned	Insulation/Jacket
1234 A Start with Part No. Add or replace letter code	A	B		PVC-Nylon/PVC
	C	D		XLPE/PVC
	E	F		FRPO/PVC
	G	H		XLPE/TPE
	K	L		TPE/TPE
	M	N		PVC-Nylon/Oil Res II
	Q	R		XLPE/CPE
	S	T		XLPE/Haloarrest

*For 1000 and 3000 Series cables only.

Specifications

- UL Subject 1277 TC
- UL 1685 (UL1581) Vertical Tray Flame Test comparable to IEEE 383-1974 (70,000 BTU/hr.) Flame Test
- NEC Type TC Listed, which is approved for cable tray use in Class 1, Division 2 areas, per NEC Articles 340, 318 and 501 and for Class 1 circuits as permitted in Article 725
- PVC-nylon/PVC constructions are NEC Type NPLF Listed, which is approved for use in Non Power-Limited Fire Protective Signaling circuits, per NEC Article 760
- PVC-Nylon/PVC, XLPE/PVC and XLPE/CPE constructed cables meet IEEE 1202/IEEE 383-2003/FT4 (70,000 BTU) Flame Test
- XLPE/Haloarrest cables are UL 1277 TC-LS rated

TC-ER Rated Cables

As an option, Belden offers all PVC-nylon/PVC, XLPE/PVC and XLPE/CPE jacketed tray cables with a TC-ER (Exposed Run) rating, formerly referred to as Open Wiring.

Per NEC Article 336, a TC-ER rated cable may be installed in an industrial establishment between a cable tray and the utilization equipment or device. A TC-ER rated cable must meet the crush and impact requirements of UL Type MC cable. By eliminating the need for metal conduit and/or armor, using a TC-ER rated cable results in savings in both installation and maintenance.

MC Cable Ratings Optional

Customize any 600V TC instrumentation cable, with armor and a full-sized ground. See chart below to specify.

To Specify MC Rated Cable			
1 Overall Jacket Type	2 Armor Type	3456 Core 4-digit Part No. 600V TC Instrumentation	A Conductor, Insulation, Inner Jacket Type

Overall Jacket

Code	Material
1	PVC
3	CPE
4	TPE
5	HDPE
6	Oil Res II
7	Haloarrest

Armor

Code	Material
2	Aluminum Interlock
3	Steel Interlock

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1.

UL Instrumentation Cable

600V Tray Cables

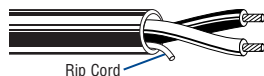
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

18 AWG Pairs Stranded (19x30) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC/Nylon Insulation • Black PVC Jacket**

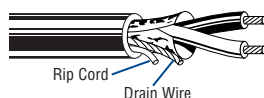
NEC: TC, NPLF
 ICSA S-73-532, ICSA S-61-402
 ICSA T-29-520
 FT4/IEEE 1202/383

9486 1 E2 1000 304.8 43.0 19.5 .048 1.22 .275 6.99 50 222 2.75 69.85

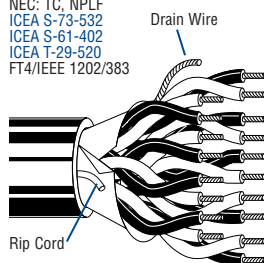
**Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket**

NEC: TC, NPLF
 ICSA S-73-532, ICSA S-61-402
 ICSA T-29-520
 FT4/IEEE 1202/383

9341 1 E2 500 152.4 22.0 10.0 .048 1.22 .276 7.01 63 280 2.75 69.85
 1000 304.8 43.0 19.5

**18 AWG Pairs** Stranded (7x26) Bare Copper Conductors • Twisted Pairs**Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket** (See chart below for other options)

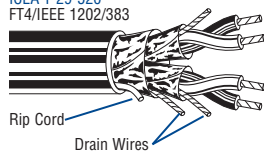
NEC: TC, NPLF
 ICSA S-73-532
 ICSA S-61-402
 ICSA T-29-520
 FT4/IEEE 1202/383



1120A	1	E2	10000 †	3048.0	450.0	204.3	.048	1.22	.278	7.06	59	262	2.80	71.12
3088A	1	E1	10000 †	3048.0	510.0	231.3	.048	1.22	.278	7.06	67	298	2.80	71.12
1063A	2	E1	10000 †	3048.0	790.0	358.3	.053	1.35	.407	10.34	112	498	4.10	104.14
1064A	4	E1	7500 †	2286.0	892.5	404.8	.053	1.35	.470	11.94	202	899	4.70	119.38
1065A	8	E1	7500 †	2286.0	1650.0	748.4	.064	1.63	.599	15.21	381	1695	6.00	152.40
1066A	12	E1	5000 †	1524.0	1520.0	689.5	.064	1.63	.717	18.21	560	2491	7.20	182.88
1067A	16	E1	5000 †	1524.0	1905.0	864.1	.064	1.63	.793	20.14	739	3287	8.00	203.20
1068A	24	E1	2500 †	762.0	1487.5	674.7	.084	2.13	1.017	25.83	1098	4884	10.30	261.62
1087A	36	E1	1250 †	381.0	1005.0	455.9	.084	2.13	1.178	29.97	1635	7273	11.70	297.18
1088A	50	E1	Bulk ††	Bulk	—	—	.084	2.13	1.446	36.73	2262	10062	14.50	368.30

Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Options below)

NEC: TC, NPLF
 ICSA S-73-532
 ICSA S-61-402
 ICSA T-29-520
 FT4/IEEE 1202/383



1048A	2	E1	7500 †	2286.0	622.5	282.4	.048	1.22	.381	9.68	140	623	3.80	96.52
1049A	4	E1	7500 †	2286.0	1057.5	479.7	.053	1.35	.489	12.42	258	1148	4.90	124.46
1050A	8	E1	7500 †	2286.0	1965.0	891.3	.064	1.63	.654	16.61	350	1557	6.60	167.64
1051A	12	E1	5000 †	1524.0	1915.0	868.6	.064	1.63	.785	19.94	728	3238	7.90	200.66
1052A	16	E1	2500 †	762.0	1267.5	574.9	.084	2.13	.898	22.81	963	4284	9.00	228.60
1053A	24	E1	2500 †	762.0	1907.5	865.2	.084	2.13	1.115	28.32	1434	6379	11.10	281.94
1054A	36	E1	1250 †	381.0	1270.0	576.1	.084	2.13	1.299	32.99	2139	9515	13.00	330.20
1038A	50	E1	Bulk ††	Bulk	—	—	.084	2.13	1.527	38.79	2962	13176	15.30	388.62

E1, E2 = Refer to Technical Information section for color code. Alternate color coding available upon request.
 Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

To Specify:

1234 A E
 Start with Part No. Add or replace letter code for desired conductor, insulation & jacket. Add for Exposed Run rating if desired.

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

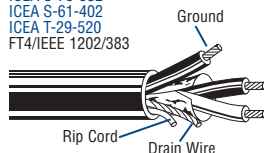
600V Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

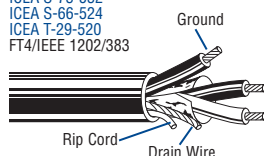
Description	Part No.	No. of Pairs/Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

18 AWG Pairs Stranded (7x26) Bare Copper Conductors • Twisted Pairs**Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Green Ground)**

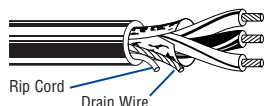
NEC: TC-ER, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	3088AE	1	E1	1000 5000†	3048.0 1524.0	63.0 320.0	28.6 145.3	.048	1.22	.340	8.64	80	356	3.40	86.36
--	--------	---	----	---------------	------------------	---------------	---------------	------	------	------	------	----	-----	------	-------

**Overall Beldfoil Shield (100% Coverage) • XLPE Insulation • Black PVC Jacket (Green Ground)**

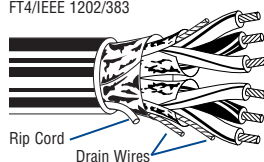
NEC: TC-ER, NPLF ICEA S-73-532 ICEA S-66-524 ICEA T-29-520 FT4/IEEE 1202/383	3088CE	1	E1	1000 5000†	3048.0 1524.0	66.0 375.0	30.0 170.3	.048	1.22	.340	8.64	80	356	3.40	86.36
--	--------	---	----	---------------	------------------	---------------	---------------	------	------	------	------	----	-----	------	-------

**18 AWG Triads** Stranded (7x26) Bare Copper Conductors • Twisted Triads**Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)**

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	1121A	1	E2	500†	152.4	27.5	12.5	.048	1.22	.282	7.16	90	400	2.75	69.85
				1000†	304.8	53.0	24.0								
				10000†	3048.0	560.0	254.0								
	3089A	1	E1	10000†	3048.0	590.0	267.6	.048	1.22	.284	7.21	90	400	2.75	69.85

**Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Options below)**

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	3064A	2	E1	Bulk††	Bulk	—	—	.048	1.22	.493	12.52	185	823	4.75	120.65
	1093A	4	E1	7500†	2286.0	1545.0	700.8	.063	1.60	.577	14.66	347	1544	6.00	152.40
	1094A	8	E1	5000†	1524.0	1755.0	796.1	.063	1.60	.745	18.92	672	2989	7.50	190.50
	1095A	12	E1	2500†	762.0	1320.0	598.8	.084	2.13	.944	23.98	997	4435	9.75	247.65
				5000†	1524.0	2875.0	1304.1								
	3066A	16	E1	Bulk††	Bulk	—	—	.084	2.13	1.046	26.57	1322	5881	10.50	266.70
	1096A	24	E1	Bulk††	Bulk	—	—	.084	2.13	1.284	32.61	1971	8767	13.00	330.20



E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options

To Specify:			Bare	Tinned	Insulation/Jacket
1234 Start with Part No. Add or replace letter code for desired conductor, insulation & jacket Add for Exposed Run rating if desired	A	E	A	B	PVC-Nylon/PVC
			C	D	XLPE/PVC
			E	F	FRPO/PVC
			G	H	XLPE/TPE
			K	L	TPE/TPE
			M	N	PVC-Nylon/Oil Res II
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

UL Instrumentation Cable

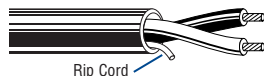
600V Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

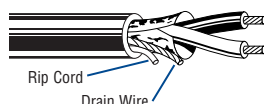
Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

16 AWG Pairs Stranded (19x29) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC/Nylon Insulation • Black PVC Jacket**

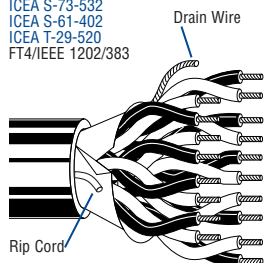
NEC: TC, NPLF ICEA S-73-532, ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	9487	1	E2	500 1000	152.4 304.8	25.5 54.0	11.6 24.5	.048	1.22	.295	7.49	70	311	3.00	76.20
---	-------------	---	----	-------------	----------------	--------------	--------------	------	------	------	------	----	-----	------	-------

**Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket**

NEC: TC, NPLF ICEA S-73-532, ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	9342	1	E2	500 1000	152.4 304.8	27.5 56.0	12.7 25.4	.048	1.22	.296	7.52	105	467	3.00	76.20
---	-------------	---	----	-------------	----------------	--------------	--------------	------	------	------	------	-----	-----	------	-------

**16 AWG Pairs** Stranded (7x24) Bare Copper Conductors • Twisted Pairs**Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket** (See chart below for other options)

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	1118A	1	E2	10000 †	3048.0	550.0	249.5	.047	1.19	.294	7.47	105	467	3.00	76.20
	3090A	1	E1	2500 †	762.0	150.0	68.0	.047	1.19	.295	7.49	105	467	3.00	76.20
	1069A	2	E1	7500 †	2286.0	712.5	323.2	.047	1.19	.456	11.58	179	796	4.60	116.84
	1527A	3	E1	7500 †	2286.0	1042.5	472.9	.047	1.19	.482	12.24	241	1072	4.80	121.92
	1070A	4	E1	7500 †	2286.0	1357.5	615.8	.063	1.60	.560	14.22	321	1428	5.60	142.24
	1071A	8	E1	7500 †	2286.0	2242.5	1017.2	.063	1.60	.676	17.17	607	2700	6.80	172.72
	1072A	12	E1	5000 †	1524.0	1047.5	475.2	.063	1.60	.812	20.63	893	3972	8.10	205.74
	1073A	16	E1	2500 †	762.0	1442.5	654.3	.085	2.16	.946	24.03	1178	5240	9.30	236.22
	1074A	24	E1	1250 †	381.0	2115.0	959.4	.085	2.16	1.158	29.41	1749	7780	11.60	294.64
	1089A	36	E1	1250 †	381.0	1388.7	629.9	.085	2.16	1.321	33.55	2606	11592	13.20	335.28
	1090A	50	E1	Bulk ††	Bulk	—	—	.085	2.16	1.551	39.40	3606	16040	15.50	393.70

**Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket** (Options below)

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	1055A	2	E1	7500 †	2286.0	885.0	401.8	.047	1.19	.476	12.09	223	992	4.16	105.66
	1037A	3	E1	7500 †	2286.0	1072.5	486.5	.047	1.19	.504	12.80	290	1290	5.00	127.0
	1039A	4	E1	7500 †	2286.0	1472.5	667.9	.063	1.60	.584	14.83	411	1828	5.80	147.32
	1040A	6	E1	5000 †	1524.0	1435.0	650.9	.063	1.60	.682	17.32	428	1904	6.80	172.72
	1041A	8	E1	5000 †	1524.0	1805.0	818.8	.063	1.60	.738	18.75	786	3496	7.40	187.96
	1042A	12	E1	2500 †	762.0	1327.5	602.2	.085	2.16	.935	23.75	1161	5164	9.40	238.76
	1043A	16	E1	2500 †	762.0	1765.0	800.6	.085	2.16	1.035	26.29	1537	6837	10.40	264.16
	1044A	20	E1	2500 †	762.0	2062.5	935.6	.085	2.16	1.146	29.11	1912	8505	11.50	292.10
	1045A	24	E1	1250 †	381.0	1241.3	563.1	.085	2.16	1.272	32.31	2287	10173	12.70	322.58
	1046A	36	E1	Bulk ††	Bulk	—	—	.085	2.16	1.454	36.93	3413	15182	14.50	368.30
	1047A	50	E1	Bulk ††	Bulk	—	—	.120	3.05	1.781	45.24	4726	21022	17.80	452.12

E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

To Specify:

1234	A	E
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Instrumentation Cable

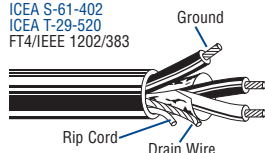
600V Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

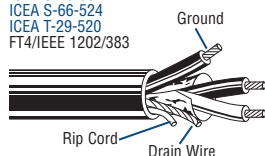
Description	Part No.	No. of Pairs/Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

16 AWG Pairs Stranded (7x24) Bare Copper Conductors • Twisted Pairs**Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Green Ground)**

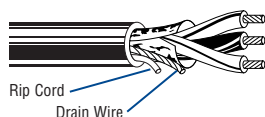
NEC: TC-ER, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	3090AE	1	E1	1000 5000 †	304.8 1524.0	65.0 340.0	29.5 154.4	.048	1.22	.390	9.91	130	578	3.90	99.06
--	--------	---	----	----------------	-----------------	---------------	---------------	------	------	------	------	-----	-----	------	-------

**Overall Beldfoil Shield (100% Coverage) • XLPE Insulation • Black PVC Jacket (Green Ground)**

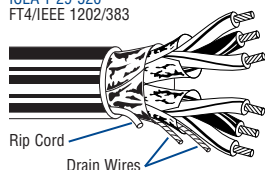
NEC: TC-ER, NPLF ICEA S-73-532 ICEA S-66-524 ICEA T-29-520 FT4/IEEE 1202/383	3090CE	1	E1	1000 5000 †	3048.0 1524.0	81.0 450.0	39.8 204.3	.048	1.22	.390	9.91	130	578	3.90	99.06
--	--------	---	----	----------------	------------------	---------------	---------------	------	------	------	------	-----	-----	------	-------

**16 AWG Triads** Stranded (7x24) Bare Copper Conductors • Twisted Triads**Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (See chart below for other options)**

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	1119A	1	E2	500 †	152.4	35.0	15.9	.047	1.19	.310	7.87	129	574	3.10	78.74
				1000 †	304.8	68.0	30.9								
				10000 †	3048.0	700.0	317.5								
	3091A	1	E1	10000 †	3048.0	750.0	340.2	.047	1.19	.310	7.87	129	574	3.10	78.74

**Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket (Options below)**

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	1097A	4	E1	5000 †	1524.0	1415.0	641.8	.063	1.60	.640	16.26	554	2464	6.40	162.56
	1098A	8	E1	2500 †	762.0	1350.0	612.4	.085	2.16	.872	22.15	1072	4768	8.70	220.98
	1099A	12	E1	2500 †	762.0	1875.0	850.5	.085	2.16	1.047	26.59	1590	7073	10.50	266.70
	3118A	16	E1	Bulk ††	Bulk	—	—	.084	2.13	1.234	31.34	1771	7878	12.25	311.15
	1100A	24	E1	Bulk ††	Bulk	—	—	.085	2.16	1.434	36.42	3144	13985	14.30	363.22
	3130A	36	E1	Bulk ††	Bulk	—	—	.110	2.79	1.773	45.03	3600	16013	18.00	457.20



E1, E2 = Refer to Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options

To Specify:			Bare	Tinned	Insulation/Jacket
1234 Start with Part No. Add or replace letter code for desired conductor, insulation & jacket Add for Exposed Run rating if desired	A	E	A	B	PVC-Nylon/PVC
			C	D	XLPE/PVC
			E	F	FRPO/PVC
			G	H	XLPE/TPE
			K	L	TPE/TPE
			M	N	PVC-Nylon/Oil Res II
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

UL Instrumentation Cable

600V Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs/Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

14 AWG Pairs Stranded (42x30) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC/Nylon Insulation • Black PVC Jacket**

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	9488	1	E2	1000	304.8	77.0	34.9	.048	1.22	.359	9.12	107	476	3.75	95.25
---	-------------	---	----	------	-------	------	------	------	------	------	------	-----	-----	------	-------



Rip Cord

Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	9343	1	E2	500	152.4	42.5	19.1	.048	1.22	.358	9.09	160	712	3.75	95.25
				1000	304.8	86.0	39.0								



Rip Cord

Drain Wire

14 AWG Pairs Stranded (7x22) Bare Copper Conductors • Twisted Pairs**Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket** (See chart below for other options)

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	3080A	1	E1	Bulk*	Bulk*	—	—	.048	1.22	.342	8.69	160	712	3.50	88.90
---	--------------	---	----	-------	-------	---	---	------	------	------	------	-----	-----	------	-------



Rip Cord

Drain Wire

14 AWG Triads Stranded (7x22) Bare Copper Conductors • Twisted Triads**Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket** (See chart below for other options)

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	3081A	1	E1	Bulk*	Bulk*	—	—	.048	1.22	.361	9.17	200	890	3.50	88.90
---	--------------	---	----	-------	-------	---	---	------	------	------	------	-----	-----	------	-------



Rip Cord

Drain Wire

E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

*Bulk = Check length available for specific construction.

To Specify:

1234	A	E
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired

Conductor, Insulation and Jacket Options**

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

UL Instrumentation Cable

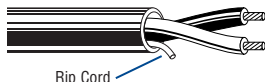
600V Tray Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

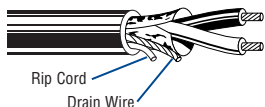
Description	Part No.	No. of Pairs/Triads	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

12 AWG Pairs Stranded (37x27) Tinned Copper Conductors • Twisted Pairs**Unshielded • PVC/Nylon Insulation • Black PVC Jacket**

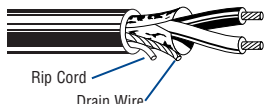
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	9489	1	E2	1000	304.8	88.0	39.9	.045	1.14	.380	9.65	170	756	3.75	95.25
---	-------------	---	----	------	-------	------	------	------	------	------	------	-----	-----	------	-------

**Overall Beldfoil® Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket**

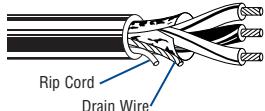
NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	9344	1	E2	500 1000	152.4 304.8	54.0 111.0	24.5 50.4	.045	1.14	.384	9.75	253	1125	3.75	95.25
---	-------------	---	----	-------------	----------------	---------------	--------------	------	------	------	------	-----	------	------	-------

**12 AWG Pairs** Stranded (7x20) Bare Copper Conductors • Twisted Pairs**Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket** (See chart below for other options)

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	3103A	1	E1	Bulk*	Bulk*	—	—	.048	1.22	.380	9.65	253	1125	3.80	96.52
---	--------------	---	----	-------	-------	---	---	------	------	------	------	-----	------	------	-------

**12 AWG Triads** Stranded (7x20) Bare Copper Conductors • Twisted Triads**Overall Beldfoil Shield (100% Coverage) • PVC/Nylon Insulation • Black PVC Jacket** (See chart below for other options)

NEC: TC, NPLF ICEA S-73-532 ICEA S-61-402 ICEA T-29-520 FT4/IEEE 1202/383	3104A	1	E1	Bulk*	Bulk*	—	—	.048	1.22	.401	10.19	315	1401	4.00	101.60
---	--------------	---	----	-------	-------	---	---	------	------	------	-------	-----	------	------	--------



E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

*Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC-Nylon/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired	C	D	XLPE/PVC
			E	F	FRPO/PVC
			G	H	XLPE/TPE
			K	L	TPE/TPE
			M	N	PVC-Nylon/Oil Res II
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.

BELDEN

For more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com**

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

UL Control Cable

600V Type TC Cables — Overview

Introduction

Belden offers a wide selection of UL-rated 600V Tray Cable for a variety of control applications.

Multi-conductor versions are available as standards from 18 to 1 AWG. 1/0 through 4/0 are also available as custom made constructions. These are unshielded and shielded versions that come with various insulation and jacket combinations.

These TC cables are installed in cable trays, ducts and conduit and can be used in direct burial applications. They are extensively used in manufacturing facilities, especially in the process industries such as petrochemical, steel, pulp and paper, cement and mining.

These flexible, space efficient cables can be substantially more economical than traditional wiring methods.

Construction

Soft annealed bare or tinned copper conductors, with various insulation and jacketing options as seen in chart below.

Application

These cables are suitable for installation in wet or dry locations. Cable jackets are resistant to sunlight, moisture and vapor penetration. The cables can be used in raceways (supported by messenger wire), outdoor applications and direct burial applications.

Unshielded

Cabled non-shielded conductors provide a minimal O.D. allowing greater tray and conduit fill. Non-shielded control cable may be utilized when recommended by the equipment manufacturer and used in a metallic conduit.

Overall Shield

Recommended for use in control applications where signals are transmitted in excess of 100 millivolts, except in areas where high voltage and current sources create excessive noise interference. The Beldfoil® shield with drain wire provides 100% coverage for maximum shield effectiveness. Copper tape shield available upon request.

Only 2-conductor round constructions can be shielded. Flat constructions cannot be shielded.

Tray Cable Construction Options

UL Listed for MC and TC				
Insulation/Jacket	Max. Temp Rating		Flame Tests	Ratings*
	Wet	Dry		
PVC-Nylon/PVC (THHN or THWN) 14 AWG & larger	75°C	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	ICEA S-73-532 ICEA S-95-658 ICEA S-61-402
PVC-Nylon/PVC (TFN or TFFN) 16 & 18 AWG	NA	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	ICEA S-73-532 ICEA S-95-658 ICEA S-61-402
XLPE/PVC or CPE (XHHW-2) 14 AWG & larger	90°C	90°C	UL 1685 FT4/IEEE 1202/383 VW-1 rated singles ICEA T-29-520	ICEA S-73-532 ICEA S-95-658 ICEA S-66-524
XLPE/PVC or CPE (RFH-2) 16 & 18 AWG	75°C	75°C	UL 1685 FT4/IEEE 1202/383 VW-1 rated singles ICEA T-29-520	ICEA S-73-532 ICEA S-95-658 ICEA S-66-524
FRPO/PVC 18 AWG & larger	—	75°C	UL 1685	
TPE/TPE	75°C	90°C	UL 1685	
FRPO/PVC	75°C	90°C	UL 1685	
XLPE/Haloarrest® (XHHW-2) 14 AWG & larger	90°C	90°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	TC-LS
XLPE/Haloarrest (RFH-2) 16 & 18 AWG	75°C	75°C	UL 1685 FT4/IEEE 1202/383 ICEA T-29-520	TC-LS
FEP/PVC	90°C	90°C	UL 1685	

CPE = Chlorinated Polyethylene • FEP = Fluorinated Ethylene-propylene • FRPO = Flame-retardant Polyolefin • PVC = Polyvinyl Chloride • TPE = Thermoplastic Elastomer • XLPE = Cross-linked Polyethylene

*Applicable to TC-rated cables only.

Ground Wire

- Non-insulated, bare copper ground wires are included for constructions 8 through 1 AWG. Non-insulated, bare copper, full sized ground wires may be requested on other constructions.
- All shielded PVC-Nylon/PVC constructions include full sized ground (drain) wires.

Color Code

Multi-conductor control cables (10 AWG to 18 AWG) are printed alpha-numerically in addition to being color coded per ICEA Table E2.

8 AWG and larger are black and numbered per ICEA Method 4.

Refer to Technical Information Section for ICEA color code charts.

Specifications

- UL Subject 1277 Type TC
- XLPE/Haloarrest jacketed cables are UL 1277 TC-LS rated
- UL Subject 1424 (per outline for NPLF requirements dated May 3, 1979)
- UL 1685 (UL 1581) Vertical Flame Test comparable to IEEE 383-1974 (70,000 BTU/hr) Flame Test

- Approved for cable tray use in Class 1, Division 2 areas, per NEC Articles 340, 318 and 501, and for Class 1 circuits as permitted in Article 725
- PVC-Nylon/PVC, XLPE/PVC and XLPE/CPE constructed cables meet IEEE 1202/IEEE 383-2003/FT4 (70,000 BTU/hr) Flame Test

TC-ER Rated Cables

As an option, Belden offers all PVC-nylon/PVC, XLPE/PVC and XLPE/CPE jacketed tray cables with a TC-ER (Exposed Run) rating, formerly referred to as Open Wiring.

Per NEC Article 336, a TC-ER rated cable may be installed in an industrial establishment between a cable tray and the utilization equipment or device. A TC-ER rated cable must meet the crush and impact requirements of UL Type MC cable. By eliminating the need for metal conduit and/or armor, using a TC-ER rated cable results in savings in both installation and maintenance.

Standard lengths may be subject to tolerance. Custom lengths may be available upon request. Contact the Belden Electronics Division Customer Service Department for additional information. 1-800-BELDEN-1

UL Control Cable

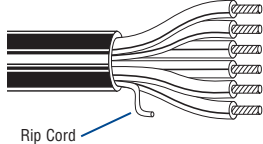
600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Cond.	Color Code	Standard Lengths		Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs./1000'	kg/km	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

18 AWG Multi-conductor Stranded (7x26) Bare Copper Conductors**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520

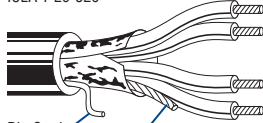


Rip Cord

27916A [†]	2	E2	Bulk	Bulk	33.0	49.1	.045	1.14	.180 x .266	4.57 x 6.76	44	195.8	2.7	68.58
27325A ^{††}	2	E2	Bulk	Bulk	34.0	50.6	.045	1.14	.270	6.86	44	195.8	2.7	68.58
27334A	3	E2	Bulk	Bulk	45.0	67.0	.045	1.14	.280	7.11	66	293.7	2.8	71.12
27326A	4	E2	Bulk	Bulk	52.0	77.4	.045	1.14	.310	7.87	88	391.6	3.1	78.74
27335A	5	E2	Bulk	Bulk	62.0	92.3	.045	1.14	.330	8.38	110	489.5	3.3	83.82
27600A	6	E2	Bulk	Bulk	72.0	107.2	.045	1.14	.350	8.89	132	587.4	3.5	88.90
27327A	7	E2	Bulk	Bulk	79.0	117.6	.045	1.14	.350	8.89	154	685.3	3.5	88.90
27601A	8	E2	Bulk	Bulk	89.0	132.5	.045	1.14	.390	9.83	176	783.2	3.8	96.52
27336A	9	E2	Bulk	Bulk	104.0	154.8	.045	1.14	.410	10.41	198	881.1	4.1	104.14
27328A	10	E2	Bulk	Bulk	111.0	165.2	.060	1.52	.450	11.43	220	979.0	4.5	114.30
27602A	11	E2	Bulk	Bulk	—	—	.060	1.52	.450	11.43	242	1076.9	4.5	114.30
27329A	12	E2	Bulk	Bulk	127.0	189.0	.060	1.52	.450	11.43	264	1174.8	4.5	114.30
27603A	13	E2	Bulk	Bulk	142.0	211.3	.060	1.52	.470	11.94	286	1272.7	4.7	119.38
27604A	14	E2	Bulk	Bulk	—	—	.060	1.52	.480	12.19	308	1370.6	4.8	121.92
27605A	15	E2	Bulk	Bulk	175.0	260.4	.060	1.52	.510	12.95	330	1468.5	5.1	129.54
27606A	16	E2	Bulk	Bulk	167.0	248.5	.060	1.52	.500	12.70	352	1566.4	5.0	127.00
27607A	17	E2	Bulk	Bulk	—	—	.060	1.52	.570	14.48	374	1664.3	5.7	144.78
27608A	18	E2	Bulk	Bulk	196.0	291.7	.060	1.52	.570	14.48	396	1762.2	5.7	144.78
27609A	19	E2	Bulk	Bulk	202.0	300.6	.060	1.52	.570	14.48	418	1860.1	5.7	144.78
27610A	20	E2	Bulk	Bulk	214.0	318.5	.060	1.52	.600	15.24	440	1958.0	5.9	149.86
27611A	25	E2	Bulk	Bulk	258.0	384.0	.060	1.52	.660	16.76	550	2447.5	6.6	167.64
27612A	30	E2	Bulk	Bulk	300.0	446.5	.060	1.52	.690	17.53	660	2937.0	6.6	167.64
27613A	37	E2	Bulk	Bulk	360.0	535.8	.080	2.03	.740	18.80	814	3622.3	7.4	187.96
27614A	50	E2	Bulk	Bulk	511.0	760.5	.080	2.03	.910	23.11	1100	4895.0	9.1	231.14
27632A	60	E2	Bulk	Bulk	627.0	933.1	.080	2.03	.960	24.38	1320	5874.0	9.6	243.84

18 AWG Multi-conductor Stranded (7x26) Bare Copper Conductors • Overall Beldfoil® Shield (100% Coverage) with Drain Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520



Rip Cord

Drain Wire

27325AS	2	E2	Bulk	Bulk	34.0	50.6	.045	1.14	.270	6.86	67	298	2.70	68.58
27334AS	3	E2	Bulk	Bulk	45.0	67.0	.045	1.14	.280	7.11	90	400	2.80	71.12
27326AS	4	E2	Bulk	Bulk	60.0	89.3	.045	1.14	.300	7.62	112	498	3.10	81.28

E2 = Refer to Technical Information section for color code.

[†] Flat construction; overall shield not available.^{††} Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

Conductor, Insulation and Jacket Options

To Specify:		
12345	A	S
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a **Z** to an **8**.
For example: **2Z080A** with TC-ER rating becomes **28080A**.

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

UL Control Cable

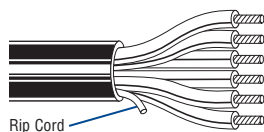
600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Cond.	Color Code	Standard Lengths		Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				ft.	m	Lbs./1000'	kg/km	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

16 AWG Multi-conductor Stranded (7x24) Bare Copper Conductors**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

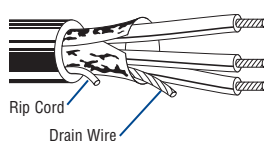
NEC: TC, NPLF
 FT4/IEEE 1202/383
 ICEA S-73-532
 ICEA S-95-658
 ICEA T-29-520



27917A†	2	E2	Bulk	Bulk	42.0	62.5	.045	1.14	.190 x .290	4.83 x 7.37	70	312	2.9	73.66
27337A††	2	E2	Bulk	Bulk	45.0	67.0	.045	1.14	.299	7.60	70	312	2.9	73.66
27331A	3	E2	Bulk	Bulk	55.0	81.9	.045	1.14	.307	7.80	105	467	3.1	78.74
27338A	4	E2	Bulk	Bulk	69.0	102.7	.045	1.14	.332	8.18	140	623	3.3	83.82
27339A	5	E2	Bulk	Bulk	83.0	123.5	.045	1.14	.360	9.14	175	779	3.6	91.44
27615A	6	E2	Bulk	Bulk	96.0	142.9	.045	1.14	.390	9.91	210	935	3.9	99.06
27323A	7	E2	Bulk	Bulk	106.0	157.7	.045	1.14	.390	9.91	245	1090	3.9	99.06
27616A	8	E2	Bulk	Bulk	122.0	181.6	.045	1.14	.420	10.67	280	1246	4.2	106.68
27340A	9	E2	Bulk	Bulk	138.0	200.4	.045	1.14	.450	11.43	315	1402	4.5	114.30
27617A	10	E2	Bulk	Bulk	149.0	221.7	.045	1.14	.490	12.45	350	1558	4.9	124.46
27618A	11	E2	Bulk	Bulk	161.0	239.6	.045	1.14	.490	12.45	385	1713	4.9	124.46
27341A	12	E2	Bulk	Bulk	174.0	258.9	.045	1.14	.500	12.70	420	1869	5.0	127.00
27619A	13	E2	Bulk	Bulk	203.0	302.1	.045	1.14	.570	14.48	455	2025	5.7	144.78
27620A	14	E2	Bulk	Bulk	223.0	331.8	.045	1.14	.570	14.48	490	2181	5.7	144.78
27621A	15	E2	Bulk	Bulk	229.0	340.8	.060	1.52	.590	14.99	525	2336	5.9	149.86
27330A	16	E2	Bulk	Bulk	241.0	358.7	.045	1.14	.600	15.24	560	2492	6.0	152.40
27622A	17	E2	Bulk	Bulk	267.0	397.3	.060	1.52	.630	16.00	595	2648	6.3	160.02
27623A	18	E2	Bulk	Bulk	—	—	.060	1.52	.630	16.00	630	2804	6.3	160.02
27624A	19	E2	Bulk	Bulk	287.0	427.1	.060	1.52	.630	16.00	665	2959	6.3	160.02
27625A	20	E2	Bulk	Bulk	304.0	452.4	.060	1.52	.660	16.76	700	3115	6.6	167.64
27324A	25	E2	Bulk	Bulk	367.0	546.1	.080	2.03	.730	18.54	875	3894	7.3	185.42
27626A	30	E2	Bulk	Bulk	428.0	636.9	.080	2.03	.770	19.56	1050	4673	7.7	195.58
27627A	37	E2	Bulk	Bulk	514.0	764.8	.080	2.03	.830	21.08	1295	5763	8.3	210.82
27628A	50	E2	Bulk	Bulk	723.0	1075.8	.080	2.03	1.000	25.40	1750	7788	10.0	254.00
27633A	60	E2	Bulk	Bulk	844.0	1255.9	.080	2.03	1.100	27.94	2100	9345	11.0	279.40

16 AWG Multi-conductor Stranded (7x24) Bare Copper Conductors • Overall Beldfoil® Shield (100% Coverage) with Drain Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF
 FT4/IEEE 1202/383
 ICEA S-73-532
 ICEA S-95-658
 ICEA T-29-520



27337AS	2	E2	Bulk	Bulk	45.0	67.0	.045	1.14	.302	7.67	94	418	3.00	76.20
27331AS	3	E2	Bulk	Bulk	55.0	81.8	.045	1.14	.320	8.13	130	578	3.20	81.28

E2 = Refer to Technical Information section for color code.

† Flat construction; overall shield not available.

†† Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

To Specify:

12345 A S
 Start with core No. add Conductor, Insulation, Jacket type add "S" for optional Beldfoil Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a 7 to an 8.
 For example: 27080A with TC-ER rating becomes 28080A.

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

UL Control Cable

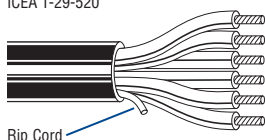
600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Cond.	Color Code	Standard Lengths		Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs./1000'	kg/km	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

14 AWG Multi-conductor Stranded (7x22) Bare Copper Conductors**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

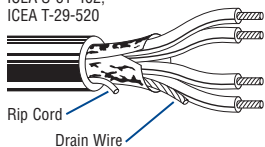
NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520



27080A†	2	E2	1000 Bulk	304.8 Bulk	61.0 61.0	27.7 27.7	.045	1.14	.210 x .320	5.33 x 8.13	108	481	3.5	88.90
27636A††	2	E2	Bulk	Bulk	62.0	92.3	.045	1.14	.320	8.13	108	481	3.2	81.28
27081A	3	E2	1000 Bulk	304.8 Bulk	86.0 86.0	39.0 39.0	.045	1.14	.340	8.64	162	721	3.4	86.36
27082A	4	E2	1000 Bulk	304.8 Bulk	110.0 110.0	49.9 49.9	.045	1.14	.360	9.14	216	961	3.6	91.44
27083A	5	E2	Bulk	Bulk	118.0	175.6	.045	1.14	.400	10.16	270	1202	3.9	99.06
27084A	6	E2	Bulk	Bulk	140.0	208.3	.045	1.14	.434	11.02	324	1442	4.3	109.22
27085A	7	E2	Bulk	Bulk	153.0	227.7	.045	1.14	.433	11.00	378	1682	4.3	109.22
27086A	8	E2	Bulk	Bulk	173.0	257.5	.045	1.14	.480	12.19	432	1922	4.7	119.38
27087A	9	E2	Bulk	Bulk	196.0	291.7	.045	1.14	.510	12.95	486	2163	5.1	129.54
27088A	10	E2	Bulk	Bulk	230.0	342.3	.060	1.52	.588	14.94	540	2403	5.7	144.78
27089A	11	E2	Bulk	Bulk	251.0	373.6	.060	1.52	.595	15.11	594	2643	5.9	149.86
27090A	12	E2	Bulk	Bulk	270.0	401.8	.060	1.52	.595	15.11	648	2884	5.9	149.86
27091A	13	E2	Bulk	Bulk	—	—	.060	1.52	.640	16.26	702	3124	6.3	160.02
27092A	14	E2	Bulk	Bulk	308.0	458.3	.060	1.52	.640	16.26	756	3364	6.3	160.02
27093A	15	E2	Bulk	Bulk	330.0	491.1	.060	1.52	.670	17.02	810	3605	6.7	170.18
27094A	16	E2	Bulk	Bulk	343.0	510.5	.060	1.52	.671	17.04	864	3845	6.6	167.64
27095A	17	E2	Bulk	Bulk	—	—	.060	1.52	.700	17.78	918	4085	7.0	177.80
27096A	18	E2	Bulk	Bulk	—	—	.060	1.52	.700	17.78	972	4325	7.0	177.80
27097A	19	E2	Bulk	Bulk	396.0	589.3	.060	1.52	.705	17.91	1026	4566	7.0	177.80
27098A	20	E2	Bulk	Bulk	425.0	632.5	.060	1.52	.735	18.67	1080	4806	7.4	187.96
27099A	21	E2	Bulk	Bulk	438.0	651.7	.060	1.52	.740	18.80	1134	5046	7.4	187.96
27100A	22	E2	Bulk	Bulk	—	—	.060	1.52	.760	19.30	1188	5287	7.6	193.04
27101A	23	E2	Bulk	Bulk	—	—	.060	1.52	.760	19.30	1242	5527	7.6	193.04
27102A	24	E2	Bulk	Bulk	495.0	736.7	.060	1.52	.810	20.57	1296	5767	8.1	205.74
27103A	25	E2	Bulk	Bulk	560.0	833.4	.060	1.52	.810	20.57	1350	6008	8.1	205.74
27104A	26	E2	Bulk	Bulk	—	—	.060	1.52	.810	20.57	1404	6248	8.1	205.74
27105A	27	E2	Bulk	Bulk	587.0	873.5	.080	2.03	.870	22.10	1458	6488	8.7	220.98
27106A	28	E2	Bulk	Bulk	—	—	.080	2.03	.910	23.11	1512	6728	9.1	231.14
27107A	29	E2	Bulk	Bulk	680.0	1012.0	.080	2.03	.910	23.11	1566	6969	9.1	231.14
27108A	30	E2	Bulk	Bulk	639.0	950.8	.080	2.03	.902	22.91	1620	7209	9.0	228.60
27629A	37	E2	Bulk	Bulk	768.0	1142.9	.080	2.03	.975	24.77	1998	8891	9.7	246.38
27912A	50	E2	Bulk	Bulk	1080.0	1607.3	.080	2.03	1.138	28.91	2700	12015	11.3	287.02

14 AWG Multi-conductor Stranded (7x22) Bare Copper Conductors • Overall Beldfoil® Shield (100% Coverage) with Drain Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532, ICEA S-95-658
ICEA S-61-402,
ICEA T-29-520



27081AS	3	E2	Bulk	Bulk	80.0	119.1	.045	1.14	.340	8.64	99	440	3.4	86.36
27082AS	4	E2	Bulk	Bulk	105.0	156.3	.045	1.14	.391	9.93	273	1214	3.9	99.06

E2 = Refer to Technical Information section for color code.

† Flat construction; overall shield not available.

†† Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

Conductor, Insulation and Jacket Options

To Specify:		
12345	A	S
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil Shield

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a 7 to an 8.
For example: 27080A with TC-ER rating becomes 28080A.

BELDENFor more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com****Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr**

UL Control Cable

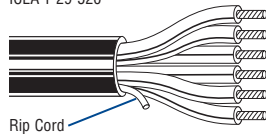
600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Cond.	Color Code	Standard Lengths		Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs./1000'	kg/km	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

12 AWG Multi-conductor Stranded (7x20) Bare Copper Conductors**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520



27109A [†]	2	E2	1000 Bulk	304.8 Bulk	74.0 74.0	110.0 110.0	.045	1.14	.220 x .350	5.59 x 8.89	172	765	3.5	88.90
27641A ^{††}	2	E2	Bulk	Bulk	86.0	128.0	.045	1.14	.360	9.14	172	765	3.6	91.44
27110A	3	E2	1000 Bulk	304.8 Bulk	110.0 110.0	163.7 163.7	.045	1.14	.374	9.50	258	1148	3.7	93.98
27111A	4	E2	1000 Bulk	304.8 Bulk	134.0 134.0	199.0 199.0	.045	1.14	.410	10.41	344	1531	4.1	104.14
27112A	5	E2	Bulk	Bulk	165.0	245.6	.045	1.14	.450	11.43	430	1914	4.5	114.30
27113A	6	E2	Bulk	Bulk	197.0	293.2	.045	1.14	.480	12.19	516	2296	4.8	121.92
27114A	7	E2	Bulk	Bulk	216.0	321.5	.045	1.14	.480	12.19	602	2679	4.8	121.92
27115A	8	E2	Bulk	Bulk	263.0	391.4	.060	1.52	.560	14.22	688	3062	5.6	142.24
27116A	9	E2	Bulk	Bulk	297.0	442.0	.060	1.52	.600	15.24	774	3444	6.0	152.40
27117A	10	E2	Bulk	Bulk	324.0	482.2	.060	1.52	.660	16.76	860	3827	6.6	167.64
27118A	11	E2	Bulk	Bulk	—	—	.060	1.52	.670	17.02	946	4210	6.7	170.18
27119A	12	E2	Bulk	Bulk	378.0	562.5	.060	1.52	.670	17.02	1032	4592	6.7	170.18
27120A	13	E2	Bulk	Bulk	—	—	.060	1.52	.700	17.78	1118	4975	7.0	177.80
27121A	14	E2	Bulk	Bulk	—	—	.060	1.52	.700	17.78	1204	5358	7.0	177.80
27122A	15	E2	Bulk	Bulk	468.0	696.5	.060	1.52	.740	18.80	1290	5741	7.4	187.96
27123A	16	E2	Bulk	Bulk	490.0	729.2	.060	1.52	.750	19.05	1376	6123	7.5	190.50
27124A	17	E2	Bulk	Bulk	—	—	.060	1.52	.770	19.56	1462	6506	7.7	195.58
27125A	18	E2	Bulk	Bulk	—	—	.060	1.52	.770	19.56	1548	6889	7.7	195.58
27126A	19	E2	Bulk	Bulk	568.0	845.3	.060	1.52	.790	20.07	1634	7271	7.9	200.66
27127A	20	E2	Bulk	Bulk	640.0	952.4	.080	2.03	.870	22.10	1720	7654	8.7	220.98
27128A	21	E2	Bulk	Bulk	—	—	.080	2.03	.870	22.10	1806	8037	8.7	220.98
27129A	22	E2	Bulk	Bulk	—	—	.080	2.03	.890	22.61	1892	8419	8.9	226.06
27130A	23	E2	Bulk	Bulk	—	—	.080	2.03	.890	22.61	1978	8802	8.9	226.06
27131A	24	E2	Bulk	Bulk	—	—	.080	2.03	.940	23.88	2064	9185	9.4	238.76
27132A	25	E2	Bulk	Bulk	775.0	1153.4	.080	2.03	.960	24.38	2150	9568	9.6	243.84
27133A	26	E2	Bulk	Bulk	—	—	.080	2.03	.960	24.38	2236	9950	9.6	243.84
27134A	27	E2	Bulk	Bulk	828.0	1232.2	.080	2.03	.960	24.38	2322	10333	9.6	243.84
27135A	28	E2	Bulk	Bulk	—	—	.080	2.03	.990	25.15	2408	10716	9.9	251.46
27136A	29	E2	Bulk	Bulk	—	—	.080	2.03	.990	25.15	2494	11098	9.9	251.46
27137A	30	E2	Bulk	Bulk	910.0	1354.3	.080	2.03	1.020	25.91	2580	11481	10.2	259.08
27630A	37	E2	Bulk	Bulk	1100.0	1637.0	.080	2.03	1.090	27.69	3182	14160	10.9	276.86
27634A	50	E2	Bulk	Bulk	1450.0	2157.9	.080	2.03	1.300	33.02	4300	19135	13.0	330.20

E2 = Refer to Technical Information section for color code.

[†] Flat construction; overall shield not available.^{††} Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

To Specify:

12345 A S
Start with core Part No. add Conductor, Insulation, Jacket type add "S" for optional Beldfoil[®] Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a Z to an 8.
For example: 27080A with TC-ER rating becomes 28080A.

Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest [®]

UL Control Cable

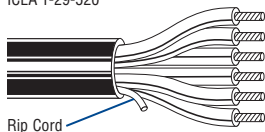
600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Cond.	Color Code	Standard Lengths		Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				ft.	m	Lbs./1000'	kg/km	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

10 AWG Multi-conductor Stranded (7x18) Bare Copper Conductors**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

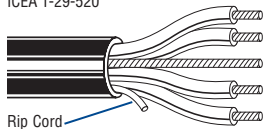
NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520



27138A [†]	2	E2	Bulk	Bulk	83.0	123.5	.045	1.14	.260 x .420	6.60 x 10.67	296	1317	4.2	106.68
27643A ^{††}	2	E2	Bulk	Bulk	131.0	195.0	.045	1.14	.420	10.67	296	1317	4.2	106.68
27139A	3	E2	1000 Bulk	304.8 Bulk	164.0 164.0	244.0 244.0	.045	1.14	.450	11.43	444	1976	4.5	114.30
27140A	4	E2	1000 Bulk	304.8 Bulk	216.0 216.0	321.0 321.0	.045	1.14	.490	12.45	592	2634	4.9	124.46
27141A	5	E2	Bulk	Bulk	276.0	410.7	.060	1.52	.570	14.48	740	3293	5.7	144.78
27142A	6	E2	Bulk	Bulk	329.0	489.6	.060	1.52	.620	15.75	888	3952	6.2	157.48
27143A	7	E2	Bulk	Bulk	361.0	537.2	.060	1.52	.620	15.75	1036	4610	6.2	157.48
27144A	8	E2	Bulk	Bulk	411.0	611.7	.060	1.52	.680	17.27	1184	5269	6.8	172.72
27145A	9	E2	Bulk	Bulk	465.0	692.0	.060	1.52	.720	18.29	1332	5927	7.2	182.88
27146A	10	E2	Bulk	Bulk	542.0	806.6	.060	1.52	.790	20.07	1480	6586	7.9	200.66
27147A	11	E2	Bulk	Bulk	582.0	866.0	.060	1.52	.790	20.07	1628	7245	7.9	200.66
27148A	12	E2	Bulk	Bulk	620.0	922.7	.080	2.03	.820	20.83	1776	7903	8.2	208.28

8 AWG Multi-conductor Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520

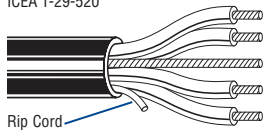


27149A	2	**	Bulk	Bulk	220.0	327.4	.060	1.52	.560	14.22	384	1709	5.6	142.24
27150A	3	**	1000 Bulk	304.8 Bulk	354.0 354.0	527.0 527.0	.060	1.52	.590	14.99	576	2563	5.9	149.86
27151A	4	**	Bulk	Bulk	394.0	327.4	.060	1.52	.650	16.51	768	3418	6.5	165.10

**ICEA Method 4 Color Code

6 AWG Multi-conductor Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF
FT4/IEEE 1202/383
ICEA S-73-532
ICEA S-95-658
ICEA S-61-402
ICEA T-29-520



27152A	2	**	Bulk	Bulk	316.0	434.6	.060	1.52	.630	16.00	610	2715	6.3	160.02
27153A	3	**	1000 Bulk	304.8 Bulk	477.0 477.0	710.0 710.0	.060	1.52	.670	17.02	915	4072	6.7	170.18
27154A	4	**	Bulk	Bulk	519.0	759.0	.060	1.52	.730	18.54	1220	5429	7.3	185.42

**ICEA Method 4 Color Code

E2 = Refer to Technical Information section for color code.

† Flat construction; overall shield not available.

†† Twisted Conductors.

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

Conductor, Insulation and Jacket Options

To Specify:		
12345	A	S
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil [®] Shield

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest [®]

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a **Z** to an **8**.
For example: **2Z080A** with TC-ER rating becomes **28080A**.

UL Control Cable

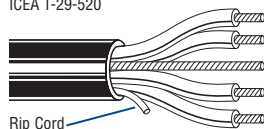
600V Type TC Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Cond.	Color Code	Standard Lengths		Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				ft.	m	Lbs./1000'	kg/km	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

4 AWG Multi-conductor Stranded (7x12) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

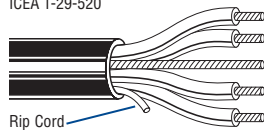
NEC: TC, NPLF FT4/IEEE 1202/383	27155A	2	**	Bulk	Bulk	455.0	677.1	.060	1.52	.770	19.56	970	4317	7.7	195.58
ICEA S-73-532	27156A	3	**	Bulk	Bulk	630.0	937.6	.080	2.03	.820	20.83	1455	6475	8.2	208.28
ICEA S-95-658 ICEA S-61-402 ICEA T-29-520	27157A	4	**	Bulk	Bulk	850.0	1265.0	.080	2.03	.950	24.13	1940	8633	9.5	241.30



**ICEA Method 4 Color Code

2 AWG Multi-conductor Stranded (7x10) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

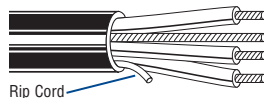
NEC: TC, NPLF FT4/IEEE 1202/383	27158A	2	**	Bulk	Bulk	716.0	1065.6	.080	2.03	.970	24.64	1544	6871	9.7	246.38
ICEA S-73-532	27159A	3	**	Bulk	Bulk	960.0	1428.7	.080	2.03	.990	25.15	2316	10306	9.9	251.46
ICEA S-95-658 ICEA S-61-402 ICEA T-29-520	27160A	4	**	Bulk	Bulk	1213.0	1805.2	.080	2.03	1.090	27.69	3088	13742	10.9	276.86



**ICEA Method 4 Color Code

1 AWG Multi-conductor Stranded (19x14) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire**PVC/Nylon Insulation and PVC Jacket Constructions** (See chart below for other options)

NEC: TC, NPLF FT4/IEEE 1202/383	27161A	3	**	Bulk	Bulk	—	—	.080	2.03	1.120	28.45	2919	12990	11.2	284.48
ICEA S-73-532 ICEA S-95-658 ICEA S-61-402 ICEA T-29-520															



**ICEA Method 4 Color Code

Bulk = 5000 ft. or 10,000 ft. put-up one piece, ±10%. Check length available for specific construction.

To Specify:

12345	A	S
Start with core Part No.	add Conductor, Insulation, Jacket type	add "S" for optional Beldfoil® Shield

Note: To specify TC-ER (Exposed Run) rated control cable, simply replace the second digit of the part number from a **Z** to an **8**.
For example: 2**Z**080A with TC-ER rating becomes 2**8**080A.

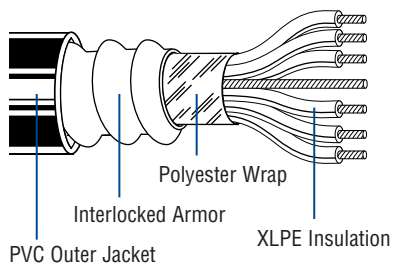
Conductor, Insulation and Jacket Options

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res II
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest®

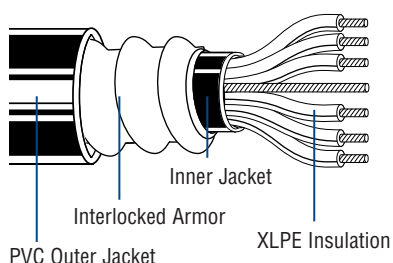
UL Control Cable

600V Type MC Metal Clad and Teck-Style® Cables — Overview

Metal Clad



Teck-Style



Introduction

Belden® Metal Clad (MC) and Teck-Style cables are designed to meet demanding industrial needs by combining rugged durability and corrosion resistance with flexibility and easy handling.

MC and Teck-Style cables are available in a wide range of constructions to meet the needs of pulp and paper, chemical, petroleum and other demanding industrial and resource industry environments. They are ideal for use in wet or dry areas; ventilated, non-ventilated or ladder-type cable troughs; ventilated flexible cableways; and for direct burial. Custom cables are available to meet exacting requirements.

Belden Type MC Cable is marked sunlight-resistant for cable tray use in direct burial designations, and cable constructions are listed to NEC Type MC.

Teck-Style cables are price-competitive, high-performance, UL and CSA dual-rated cables with a flame-retardant XHHW insulated conductor and an inner PVC jacket for mechanical moisture and corrosion protection.

Construction

Class B stranded bare copper conductors, cross-linked polyethylene insulation, bare copper ground wire, standard aluminum or optional galvanized steel interlocking armor, PVC outer jacket.

- Thermoset insulation — XHHW-2 conductors
- NEC conductor temperature 90°C dry and 90°C wet

Voltage Rating

14 AWG — 2 AWG: 600 Volt

Application

Type MC Cable is a general-purpose cable used in the pulp and paper, mining, petroleum and chemical industries as well as in commercial buildings.

MC Cable may be used under the following conditions:

- Exposed or concealed wiring in dry or wet conditions
- In ventilated, non-ventilated or ladder-type cable trays in dry or wet conditions
- On walls or beams
- Directly buried
- Class I and II Div. 2 and Class III Div. 1 and 2 hazardous locations

Minimum Bending Radius

12 times the overall cable diameter

Pulling Tensions

The combined use of Kellems grips and pulling eyes is recommended.

Design Advantages

Insulation Properties

- High tensile strength
- Impact- and crush-resistant
- Heat-resistant
- Excellent elongation
- Moisture-resistant
- Good low temperature properties
- 90°C dry and 90°C wet

Electrical Properties

- High insulation resistance
- Low dielectric loss
- High dielectric strength

Other Features

- Corrosion-resistant
- Versatile and flexible
- Provides cost savings as conduit and ducts are not required

Specifications

- UL 44
- UL 1569
- UL 1685 (UL 1581) Vertical Tray Flame Test (70,000 BTU/hr)

Tech-Style CSA Specifications

- CSA C22.2 #131
- FT4 Flame Test
- HAZ LOC
- CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

UL Control Cable

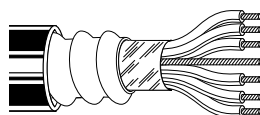
600V Type MC Metal Clad Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part Number		No. of Cond.	Insulation Thickness		Outer Jacket Thickness		Armor OD		Nominal OD		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm

14 AWG Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire**Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket**

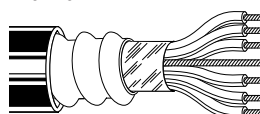
NEC: MC



27243	28243	2	.030	.76	.050	1.27	.48	12.19	.58	14.73	7.3	185.42
27244	28244	3	.030	.76	.050	1.27	.50	12.70	.61	15.49	7.6	193.04
27245	28245	4	.030	.76	.050	1.27	.54	13.72	.64	16.26	7.9	200.66
27246	28246	5	.030	.76	.050	1.27	.57	14.48	.68	17.27	8.4	213.36
27247	28247	6	.030	.76	.050	1.27	.62	15.75	.72	18.29	8.9	226.06
27248	28248	7	.030	.76	.050	1.27	.62	15.75	.72	18.29	8.9	226.06
27269	28269	8	.030	.76	.050	1.27	.69	17.53	.80	20.32	9.4	238.76
27535	28535	9	.030	.76	.050	1.27	.70	17.78	.80	20.32	10.0	254.00
27249	28249	10	.030	.76	.050	1.27	.75	19.05	.85	21.59	10.5	266.70
27250	28250	12	.030	.76	.050	1.27	.77	19.56	.87	22.10	10.8	274.32
27251	28251	15	.030	.76	.050	1.27	.87	22.10	.98	24.89	11.6	294.64
27969	28969	19	.030	.76	.050	1.27	1.00	25.40	1.11	28.19	12.1	307.34
27252	28252	20	.030	.76	.050	1.27	1.03	26.16	1.14	28.96	13.3	337.82
27270	28270	25	.030	.76	.050	1.27	1.10	27.94	1.21	30.73	14.4	365.76
27253	28253	30	.030	.76	.050	1.27	1.18	29.97	1.29	32.77	15.1	383.54
27292	28292	37	.030	.76	.050	1.27	1.14	28.96	1.24	31.50	16.1	408.94
27433	28433	40	.030	.76	.050	1.27	1.28	32.51	1.40	35.56	16.7	424.18
27434	28434	50	.030	.76	.050	1.27	1.40	35.56	1.52	38.61	18.4	467.36

12 AWG Stranded (7x20) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire**Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket**

NEC: MC



27254	28254	2	.030	.76	.050	1.27	.52	13.21	.62	15.75	7.8	198.12
27255	28255	3	.030	.76	.050	1.27	.54	13.72	.64	16.26	8.0	203.20
27256	28256	4	.030	.76	.050	1.27	.58	14.73	.68	17.22	8.5	215.90
27271	28271	5	.030	.76	.050	1.27	.62	15.75	.72	18.29	9.1	231.14
27272	28272	6	.030	.76	.050	1.27	.67	17.02	.77	19.56	9.6	243.84
27273	28273	7	.030	.76	.050	1.27	.67	17.02	.77	19.56	9.6	243.84
27274	28274	8	.030	.76	.050	1.27	.77	19.56	.88	22.35	10.2	259.08
27538	28538	9	.030	.76	.050	1.27	.76	19.30	.86	21.84	10.8	274.32
27275	28275	10	.030	.76	.050	1.27	.80	20.32	.91	23.11	11.5	292.10
27276	28276	12	.030	.76	.050	1.27	.84	21.34	.94	23.88	11.7	297.18
27277	28277	15	.030	.76	.050	1.27	.94	23.88	1.05	26.67	13.4	340.36
27539	28539	19	.030	.76	.055	1.40	1.05	26.67	1.16	29.46	14.0	355.60
27278	28278	20	.030	.76	.055	1.40	1.16	29.46	1.27	32.26	14.6	370.84
27279	28279	25	.030	.76	.055	1.40	1.26	32.00	1.37	34.80	15.8	401.32
27280	28280	30	.030	.76	.055	1.40	1.29	32.77	1.40	35.56	16.8	426.72
27540	28540	37	.030	.76	.055	1.40	1.44	36.58	1.55	39.37	17.8	452.12
27432	28432	40	.030	.76	.055	1.40	1.50	38.10	1.63	41.40	18.4	467.36

Color Code: Use ICEA Table E2 with printed numbers.

Non-stocked items. Check length available for specific construction. Minimum order may apply.

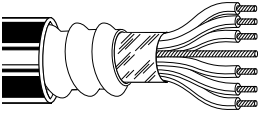
UL Control Cable

600V Type MC Metal Clad Cables

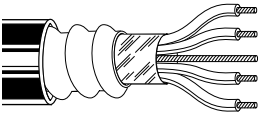
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part Number		No. of Cond.	Insulation Thickness		Outer Jacket Thickness		Armor OD		Nominal OD		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm

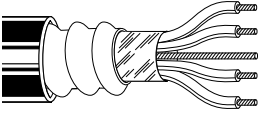
10 AWG Stranded (7x18) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire

Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
	27257	28257	2	.030	.76	.050	1.27	.56	14.22	.67	17.02	8.4	213.36
	27258	28258	3	.030	.76	.050	1.27	.58	14.73	.69	17.53	8.6	218.44
	27259	28259	4	.030	.76	.050	1.27	.62	15.75	.74	18.80	9.2	233.68
	27281	28281	5	.030	.76	.050	1.27	.68	17.27	.79	20.07	12.8	325.12
	27282	28282	6	.030	.76	.050	1.27	.74	18.80	.84	21.34	10.4	264.16
	27283	28283	7	.030	.76	.050	1.27	.74	18.80	.84	21.34	10.4	264.16
	27284	28284	8	.030	.76	.050	1.27	.81	20.57	.92	23.37	11.2	284.48
	27541	28541	9	.030	.76	.050	1.27	.87	22.10	.98	24.89	11.8	299.72
	27285	28285	10	.030	.76	.050	1.27	.89	22.61	1.03	26.16	13.3	337.82
	27286	28286	12	.030	.76	.050	1.27	1.01	25.65	1.12	28.45	13.7	347.98
	27287	28287	15	.030	.76	.050	1.27	1.09	27.69	1.22	30.99	14.8	375.92
	27288	28288	20	.030	.76	.055	1.40	1.22	30.99	1.35	34.29	16.2	411.48
	27289	28289	25	.030	.76	.055	1.40	1.32	33.53	1.47	37.34	17.8	452.12
	27290	28290	30	.030	.76	.055	1.40	1.42	36.07	1.55	39.37	18.6	472.44

8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire

Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
	27291	28291	2	.045	1.14	.050	1.27	.70	17.78	.81	20.57	9.8	248.92
	27260	28260	3	.045	1.14	.050	1.27	.72	18.29	.82	20.83	10.2	259.08
	27261	28261	4	.045	1.14	.050	1.27	.78	19.81	.88	22.35	10.9	276.86

6 AWG Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire

Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket													
	27293	28293	2	.045	1.14	.050	1.27	.76	19.30	.87	22.10	10.7	271.78
	27262	28262	3	.045	1.14	.050	1.27	.80	20.32	.90	22.86	11.2	284.48
	27263	28263	4	.045	1.14	.050	1.27	.87	22.10	.97	24.64	12.1	307.34

Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.

For sizes 8 and larger, use ICEA Method 4 with printed numbers.

Non-stocked items. Check length available for specific construction. Minimum order may apply.

UL Control Cable

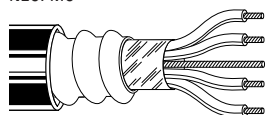
600V Type MC Metal Clad Cables

Industrial Grade Sunlight- and Oil-Resistant Jackets

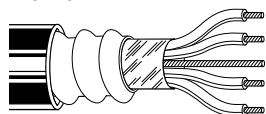
Description	Part Number		No. of Cond.	Insulation Thickness		Outer Jacket Thickness		Armor OD		Nominal OD		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm

4 AWG Stranded (7x12) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket**

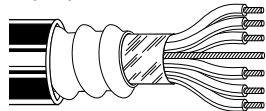
NEC: MC	27264	28264	3	.045	1.14	.050	1.27	.90	22.86	1.00	25.40	13.1	332.74
	27265	28265	4	.045	1.14	.050	1.27	1.97	50.04	1.08	27.43	14.2	360.68

**2 AWG** Stranded (7x10) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire**Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket**

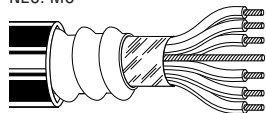
NEC: MC	27267	28267	3	.045	1.14	.050	1.27	1.02	25.91	1.13	28.70	14.7	373.38
	27268	28268	4	.045	1.14	.050	1.27	1.11	28.19	1.22	30.99	16.0	406.40

**Composite 14 AWG (7x22) and 12 AWG (7x20) Stranded Bare Copper Conductors • 12 AWG Bare Copper Ground Wire****Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket**

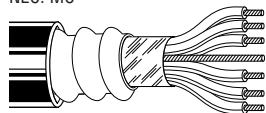
NEC: MC	27428	28428	3c/14	.030	.76	.050	1.27	.70	17.78	.81	20.57	9.7	246.38
			3c/12	.030	.76								

**Composite 14 AWG (7x22) and 10 AWG (7x18) Stranded Bare Copper Conductors • 10 AWG Bare Copper Ground Wire****Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket**

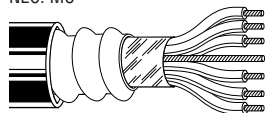
NEC: MC	27429	28429	3c/14	.030	.76	.050	1.27	.74	18.80	.85	21.59	10.2	259.08
			3c/10	.030	.76								

**Composite 14 AWG (7x22) and 8 AWG (7x16) Stranded Bare Copper Conductors • 10 AWG Bare Copper Ground Wire****Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket**

NEC: MC	27430	28430	3c/14	.030	.76	.050	1.27	.83	21.08	.94	23.88	11.2	284.48
			3c/8	.045	1.14								

**Composite 14 AWG (7x22) and 6 AWG (7x14) Stranded Bare Copper Conductors • 8 AWG Bare Copper Ground Wire****Aluminum or Steel Interlocked Armor • Cross-linked Polyethylene Insulation • PVC Jacket**

NEC: MC	27431	28431	3c/14	.030	.76	.050	1.27	.89	22.61	1.01	25.65	12.0	304.80
			3c/6	.045	1.14								



Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.

For sizes 8 and larger, use ICEA Method 4 with printed numbers.

Non-stocked items. Check length available for specific construction. Minimum order may apply.

UL Control Cable

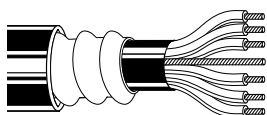
600V Teck-Style® Cables

Dual-Rated Type MC/Teck 90

Description	Part Number		No. of Cond.	Insulation Thickness		Inner Jacket OD		Armor OD		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

14 AWG Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

NEC: MC



27840	28840	2	.030	.76	.37	9.40	.56	14.22	.67	17.02	66	294	8.0	203
27841	28841	3	.030	.76	.39	9.91	.58	14.73	.69	17.53	98	436	8.3	211
27842	28842	4	.030	.76	.43	10.92	.62	15.75	.73	18.54	131	583	8.7	221
27843	28843	5	.030	.76	.47	11.94	.66	16.76	.77	19.56	164	730	9.2	234
27844	28844	6	.030	.76	.51	12.95	.70	17.78	.81	20.57	191	850	9.7	246
27845	28845	7	.030	.76	.51	12.95	.70	17.78	.81	20.57	225	1001	9.7	246
27846	28846	8	.030	.76	.58	14.73	.77	19.56	.88	22.35	260	1157	10.5	267
27847	28847	10	.030	.76	.67	17.02	.93	23.62	1.04	26.42	321	1428	12.5	318
27848	28848	12	.030	.76	.69	17.53	.95	24.13	1.06	26.92	388	1726	10.9	277
27849	28849	15	.030	.76	.77	19.56	1.03	26.16	1.14	28.96	481	2140	13.7	348
27850	28850	20	.030	.76	.86	21.84	1.12	28.45	1.23	31.24	649	2887	15.3	389
27851	28851	25	.030	.76	.92	23.37	1.18	29.97	1.30	33.02	810	3603	16.3	414
27852	28852	30	.030	.76	.98	24.89	1.24	31.50	1.36	34.54	975	4337	17.0	432
27855	28855	40	.030	.76	1.09	27.69	1.35	34.29	1.47	37.34	1301	5787	18.5	470
27886	28886	50	.030	.76	1.19	30.23	1.45	36.83	1.57	39.88	1630	7251	19.8	503

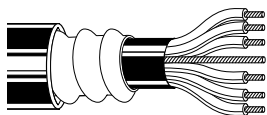
CSA C22.2 #131

FT4 Flame Test, HAZ LOC

CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

12 AWG Stranded (7x20) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

NEC: MC



27853	28853	2	.030	.76	.41	10.41	.60	15.24	.71	18.03	104	463	8.5	216
27854	28854	3	.030	.76	.43	10.92	.62	15.75	.73	18.54	156	694	8.8	224
27855	28855	4	.030	.76	.47	11.94	.66	16.76	.77	19.56	207	921	9.2	234
27856	28856	5	.030	.76	.52	13.21	.71	18.03	.82	20.83	260	1157	9.8	249
27857	28857	6	.030	.76	.59	14.99	.78	19.81	.89	22.61	310	1379	10.7	272
27858	28858	7	.030	.76	.59	14.99	.78	19.81	.89	22.61	361	1606	10.7	272
27859	28859	8	.030	.76	.64	16.26	.83	21.08	.94	23.88	415	1846	11.3	287
27860	28860	10	.030	.76	.75	19.05	1.01	25.65	1.12	28.45	520	2313	13.4	340
27861	28861	12	.030	.76	.77	19.56	1.03	26.16	1.14	28.96	619	2753	13.7	348
27862	28862	15	.030	.76	.87	22.10	1.13	28.70	1.25	31.75	718	3194	15.0	381
27863	28863	20	.030	.76	.96	24.38	1.22	30.99	1.33	33.78	1040	4626	15.9	404
27864	28864	25	.030	.76	1.04	26.42	1.30	33.02	1.42	36.07	1301	5787	17.0	432
27865	28865	30	.030	.76	1.15	29.21	1.41	35.81	1.53	38.86	1560	6939	18.3	465
27887	28887	40	.030	.76	1.20	30.48	1.54	39.12	1.67	42.42	2020	8985	20.0	508

CSA C22.2 #131

FT4 Flame Test, HAZ LOC

CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

Color Code: Use ICEA Table E2 with printed numbers.

Non-stocked items. Check length available for specific construction. Minimum order may apply.

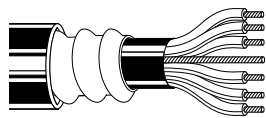
UL Control Cable

600V Teck-Style® Cables

Dual-Rated Type MC/Teck 90

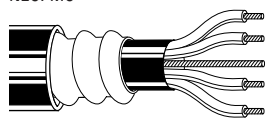
Description	Part Number		No. of Cond.	Insulation Thickness		Inner Jacket OD		Armor OD		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

10 AWG Stranded (7x18) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

	27866	28866	2	.030	.76	.46	11.68	.65	16.51	.74	18.80	166	738	9.1	231
	27867	28867	3	.030	.76	.48	12.19	.67	17.02	.77	19.56	249	1108	9.4	239
	27868	28868	4	.030	.76	.56	14.22	.75	19.05	.84	21.34	330	1468	10.3	262
	27869	28869	5	.030	.76	.67	17.02	.86	21.84	.96	24.38	415	1846	11.6	295
	27870	28870	6	.030	.76	.67	17.02	.86	21.84	.96	24.38	491	2184	11.6	295
	27877	28877	7	.030	.76	.70	17.78	.90	22.86	1.00	25.40	560	2491	12.1	307
	27878	28878	8	.030	.76	.75	19.05	.95	24.13	1.05	26.67	640	2847	12.7	323
	27879	28879	10	.030	.76	.78	19.81	1.04	26.42	1.15	29.21	801	3563	13.8	351
	27880	28880	12	.030	.76	.89	22.61	1.15	29.21	1.26	32.00	960	4270	15.1	384
	27881	28881	15	.030	.76	.93	23.62	1.19	30.23	1.30	33.02	1195	5316	15.6	396
	27882	28882	20	.030	.76	1.06	26.92	1.32	33.53	1.44	36.58	1600	7117	17.3	439
	27883	28883	25	.030	.76	1.12	28.45	1.44	36.58	1.58	40.13	1990	8852	19.0	483
	27884	28884	30	.030	.76	1.28	32.51	1.54	39.12	1.67	42.42	2355	10476	20.0	508

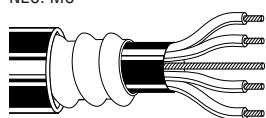
CSA C22.2 #131
FT4 Flame Test, HAZ LOC
CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

	27871	28871	2	.045	1.14	.59	14.99	.78	19.81	.89	22.61	264	1174	10.7	272
	27872	28872	3	.045	1.14	.62	15.75	.81	20.57	.91	23.11	396	1762	10.9	277
	27873	28873	4	.045	1.14	.68	17.27	.94	23.88	1.05	26.67	528	2349	12.6	320

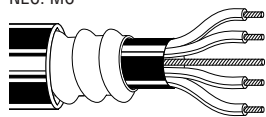
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

6 AWG Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

	27874	28874	2	.060	1.52	.71	18.03	.97	24.64	1.08	27.43	420	1868	13.0	330
	27875	28875	3	.060	1.52	.76	19.30	1.02	25.91	1.13	28.70	630	2802	13.5	343
	27876	28876	4	.060	1.52	.88	22.35	1.14	28.96	1.25	31.75	840	3737	15.0	381

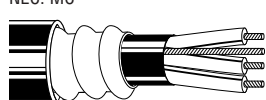
CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

4 AWG Stranded (7x12) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

	27894	28894	3	.060	1.52	.91	23.11	1.17	29.72	1.29	32.77	1002	4457	15.5	394
	27895	28895	4	.060	1.52	.99	25.15	1.25	31.75	1.37	34.80	1335	5938	16.4	417

CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

3 AWG Stranded (7x11) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

	27896	28896	3	.060	1.52	.96	24.38	1.22	30.99	1.33	33.78	1263	5618	16.0	406
---	-------	-------	---	------	------	-----	-------	------	-------	------	-------	------	------	------	-----

CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.
For sizes 8 and larger, use ICEA Method 4 with printed numbers.

Non-stocked items. Check length available for specific construction. Minimum order may apply.

UL Control Cable

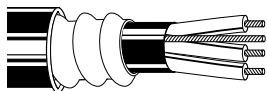
600V Teck-Style® Cables

Dual-Rated Type MC/Teck 90

Description	Part Number		No. of Cond.	Insulation Thickness		Inner Jacket OD		Armor OD		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
	Aluminum Armor	Steel Armor		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

2 AWG Stranded (7x10) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

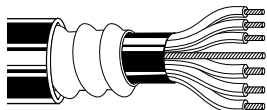
NEC: MC	27888	28888	3	.060	1.52	1.08	27.43	1.28	32.51	1.40	35.56	1593	7086	16.8	427
	27889	28889	4	.060	1.52	1.12	28.45	1.38	35.05	1.50	38.10	2124	9448	18.0	457



CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG (7x22) and **12 AWG** (7x20) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

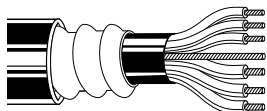
NEC: MC	27890	28890	3c/14	.030	.76	.56	14.22	.75	19.05	.86	21.84	202	899	10.3	262
			3c/12	.030	.76										



CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG (7x22) and **10 AWG** (7x18) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

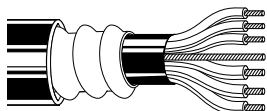
NEC: MC	27891	28891	3c/14	.030	.76	.61	15.49	.80	20.32	.91	23.11	305	1357	10.9	277
			3c/10	.030	.76										



CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG (7x22) and **8 AWG** (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

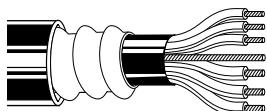
NEC: MC	27892	28892	3c/14	.045	1.14	.70	17.78	.96	24.38	1.07	27.18	435	1935	12.8	325
			3c/8	.030	.76										



CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG (7x22) and **6 AWG** (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**Aluminum or Steel Armor • Cross-linked Polyethylene Insulation • PVC Inner Jacket • PVC Outer Jacket**

NEC: MC	27893	28893	3c/14	.060	1.52	.90	22.86	1.15	29.21	1.26	32.00	655	2914	15.1	384
			3c/6	.030	.76										



CSA C22.2 #131, FT4 Flame Test, HAZ LOC, CSA C22.2 #0.3 Clause 4.31 Low Acid Gas

Color Code: For sizes 14, 12, 10, use ICEA Table E2 with printed numbers.

For sizes 8 and larger, use ICEA Method 4 with printed numbers.

Non-stocked items. Check length available for specific construction. Minimum order may apply.

CSA Instrumentation & Thermocouple Tray Cable

300V TC/CIC

Paired and Triad Constructions

Cable Specifications

- CSA C22.2 #239 Control and Instrumentation
- CSA C22.2 #230 Type TC
- CSA FT4 70,000 BTU Flame Test
- PVC Insulation 90°C Dry & 75°C Wet
- XLPE Insulation Optional 90°C Dry and Wet
- -40°C Cold Bend, -25°C Cold Impact
- -25°C Installation temp
- Per CEC Part 1, Suitable for use in hazardous locations:
Class 1 – Zone 2
Class 2 – Division 2
- Sun Res/UV resistant
- Direct Burial

To Create a Part Number

Add suffixes for Conductor, Insulation and Jacket Type and Shielding as shown below:

A = Bare Copper Conductor or Thermocouple alloy, PVC insulation, PVC Jacket

B = Tinned Copper Conductor, PVC Insulation, PVC Jacket

C = Bare Copper Conductor or Thermocouple alloy, XLPE Insulation, PVC Jacket

D = Tinned Copper Conductor, XLPE Insulation, PVC Jacket

1 = Overall Foil Shield + Drain Wire

2 = Individual and Overall Foil Shield + Drain Wire

Sample Part Number:

22001B2 = 300V, 2-Pair 20 AWG Tinned Copper Conductor cable with PVC Insulation, PVC Jacket, with Individual and Overall Foil Shields plus Drain Wire

Thermocouple Color Codes

ANSI Symbol	Jacket Color	Insulation Color Code	
		Positive (+)	Negative (-)
EX	Purple	Purple	Red
JX	Black	White	Red
KX	Yellow	Yellow	Red
TX	Blue	Blue	Red

Copper Color Codes

Pairs/Triads	Color Combination
Pairs	Black & White
Triads	Black, White & Red

No. of Pairs	Part Numbers				
	7 Strand Copper	Solid EX Chromel/Constantan	Solid JX Iron/Constantan	Solid KX Chromel/Alumel	Solid TX Copper/Constantan
20 AWG					
1	22000	21100	21114	21128	21142
2	22001	21101	21115	21129	21143
4	22002	21102	21116	21130	21144
6	22003	21103	21117	21131	21145
8	22004	21104	21118	21132	21146
10	22005	21105	21119	21133	21147
12	22006	21106	21120	21134	21148
16	22007	21107	21121	21135	21149
20	22008	21108	21122	21136	21150
24	22009	21109	21123	21137	21151
30	22010	21110	21124	21138	21152
36	22011	21111	21125	21139	21153
40	22012	21112	21126	21140	21154
50	22013	21113	21127	21141	21155
18 AWG					
1	22027	21156	21170	21184	21198
2	22028	21157	21171	21185	21199
4	22029	21158	21172	21186	21200
6	22030	21159	21173	21187	21201
8	22031	21160	21174	21188	21202
10	22032	21161	21175	21189	21203
12	22033	21162	21176	21190	21204
16	22034	21163	21177	21191	21205
20	22035	21164	21178	21192	21206
24	22036	21165	21179	21193	21207
30	22037	21166	21180	21194	21208
36	22038	21167	21181	21195	21209
40	22039	21168	21182	21196	21210
50	22040	21169	21183	21197	21211
16 AWG					
1	22054	21212	21226	21240	21254
2	22055	21213	21227	21241	21255
4	22056	21214	21228	21242	21256
6	22057	21215	21229	21243	21257
8	22058	21216	21230	21244	21258
10	22059	21217	21231	21245	21259
12	22060	21218	21232	21246	21260
16	22061	21219	21233	21247	21261
20	22062	21220	21234	21248	21262
24	22063	21221	21235	21249	21263
30	22064	21222	21236	21250	21264
36	22065	21223	21237	21251	21265
40	22066	21224	21238	21252	21266
50	22067	21225	21239	21253	21267

Triad Constructions, Copper Conductor

No. of Triads	Part Numbers		
	20 AWG (7 Strand)	18 AWG (7 Strand)	16 AWG (7 Strand)
1	22014	22041	22068
2	22015	22042	22069
4	22016	22043	22070
6	22017	22044	22071
8	22018	22045	22072
10	22019	22046	22073
12	22020	22047	22074
16	22021	22048	22075
20	22022	22049	22076
24	22023	22050	22077
30	22024	22051	22078
36	22025	22052	22079

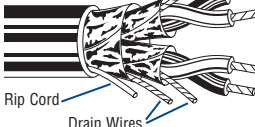
CSA Instrumentation Cable

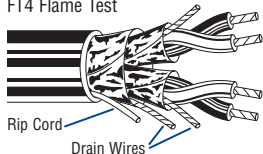
300V CIC

Belden offers a complete line of high performance and high quality CSA certified instrumentation cables (300V/600V and CIC/ACIC). These cables are designed to minimize noise and signal interference to deliver clean signals in harsh petrochemical, pulp and paper and process industry environments, as well as for use in general manufacturing operations.

Contact Belden Customer Service for other options:

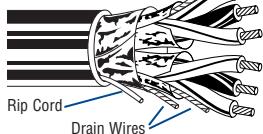
- 150V
- XLPE insulation (add D suffix to part number)
- Thermocouple alloy conductors
- Overall foil shield only
- Other pair and triad counts

Description	Part Number	No. of Pairs or Triads	Cable Weight		Jacket Thickness		Nominal OD	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm
20 AWG Pairs Stranded (7x28) TC Conductors • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black and White with Numbers)								
CSA C22.2#239, Type CIC	22671*	1	71	106	.045	1.14	.260	6.60
CSA C22.2 #0.3 Clause 4.31 Low Acid Gas	22638	2	143	213	.045	1.14	.400	10.16
FT4 Flame Test	22639	4	217	323	.045	1.14	.460	11.68
	22640	6	320	476	.045	1.14	.570	14.48
	22641	8	405	603	.060	1.52	.610	15.49
	22676	12	573	853	.060	1.52	.730	18.54
	22643	16	722	1076	.060	1.52	.810	20.57
	22647	24	1103	1641	.080	2.03	1.040	26.42
	22670	36	1548	2304	.080	2.03	1.190	30.23



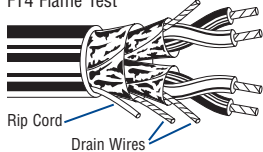
-25°C Installed
-40°C to +105°C (Dry) (75°C Wet)

20 AWG Triads Stranded (7x28) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black, White and Red with Numbers)								
CSA C22.2#239, Type CIC	22660*	1	89	132	.045	1.14	.270	6.86
CSA C22.2 #0.3 Clause 4.31 Low Acid Gas FT4 Flame Test	22662	2	177	263	.045	1.14	.420	10.67
	22663	4	277	412	.045	1.14	.490	12.45
	22672	8	521	775	.060	1.52	.650	16.51
	22673	16	1000	1488	.080	2.03	.910	23.11
	22674	24	1414	2104	.080	2.03	1.110	28.19



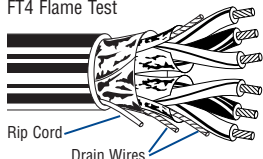
-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

18 AWG Pairs Stranded (7x26) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black and White with Numbers)								
CSA C22.2#239, Type CIC	22645*	1	97	144	.045	1.14	.300	7.62
CSA C22.2 #0.3 Clause 4.31 Low Acid Gas FT4 Flame Test	22633	2	196	292	.045	1.14	.480	12.19
	22648	4	338	503	.045	1.14	.580	14.73
	22634	6	473	704	.060	1.52	.670	17.02
	22635	8	570	848	.060	1.52	.730	18.54
	22636	12	869	1293	.060	1.52	.920	23.37
	22654	16	1095	1630	.080	2.03	1.020	25.91
	22637	24	1552	2310	.080	2.03	1.260	32.00



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

18 AWG Triads Stranded (7x26) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)								
PVC Insulation • Black PVC Jacket (Color Code: Black, White and Red with Numbers)								
CSA C22.2#239, Type CIC	22677*	1	121	180	.045	1.14	.303	7.70
CSA C22.2 #0.3 Clause 4.31 Low Acid Gas FT4 Flame Test	22678	2	256	381	.045	1.14	.480	12.19
	22679	4	427	636	.060	1.52	.620	15.75
	22680	8	597	888	.060	1.52	.710	18.03
	22681	16	740	1101	.060	1.52	.770	19.56
	22682	24	1130	1682	.080	2.03	.980	24.89
	22683	16	1436	2137	.080	2.03	1.090	27.69
	22684	24	2049	3049	.080	2.03	1.340	34.04



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

*One pair/triad cables have one shield and drain wire

TC = Tinned Copper

BELDEN

For more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com**

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

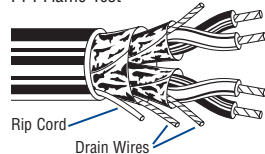
CSA Instrumentation Cable

300V CIC

Description	Part Number	No. of Pairs or Triads	Cable Weight		Jacket Thickness		Nominal OD	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm

16 AWG Pairs Stranded (7x24) TC Conductors • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**PVC Insulation • Black PVC Jacket** (Color Code: Black and White with Numbers)

CSA C22.2#239, Type CIC

CSA C22.2 #0.3 Clause 4.31 Low Acid Gas
FT4 Flame Test

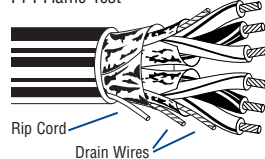
-25°C Installed

-40°C to +105°C (Dry) (75°C Wet)

22646*	1	122	182	.045	1.14	.320	8.13
22628	2	262	390	.045	1.14	.520	13.21
22629	4	438	652	.060	1.52	.628	15.95
22630	6	603	897	.060	1.52	.740	18.80
22631	8	752	1119	.060	1.52	.800	20.32
22632	12	1148	1708	.080	2.03	1.010	25.65
22685	16	1461	2174	.080	2.03	1.120	28.45
22686	24	2091	3112	.080	2.03	1.380	35.05

16 AWG Triads Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**PVC Insulation • Black PVC Jacket** (Color Code: Black, White and Red with Numbers)

CSA C22.2#239, Type CIC

CSA C22.2 #0.3 Clause 4.31 Low Acid Gas
FT4 Flame Test

-25°C Installed

-40°C to +105°C (Dry) (75°C Wet)

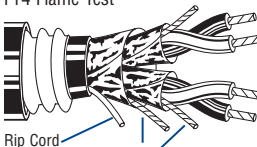
TC = Tinned Copper

*One pair/triad cables have one shield and drain wire

22603*	1	152	226	.045	1.14	.329	8.36
22687	2	344	512	.045	1.14	.580	14.73
22675	4	564	839	.060	1.52	.670	17.02
22688	6	819	1219	.060	1.52	.780	19.81
22689	8	1063	1582	.080	2.03	.940	23.88
22690	12	1524	2268	.080	2.03	1.080	27.43

CSA Instrumentation Cable

300V ACIC Armored Cables

Description	Part No.		No. of Pairs/Triads	Cable Weight Aluminum Armor		Cable Weight Steel Armor		Insulation Thickness		Nominal OD Inner Jacket		Nominal OD Outer Jacket		
	Aluminum Armor	Steel Armor		Lbs. / 1000 Ft.	kg/km	Lbs. / 1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	
20 AWG Pairs Stranded (7x28) TC Cond. • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage) • Drain Wires														
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket														
 Rip Cord Drain Wires	CSA C22.2#239, Type ACIC	23543**	26530**	1	140	208	230	342	.020	.51	.26	6.6	.56	14.2
	CSA C22.2#174, HLABCD	23534	26531	2	206	307	325	484	.020	.51	.40	10.2	.70	17.8
	CSA C22.2#0.3, Clause 4.31	23514	26532	4	255	379	390	580	.020	.51	.46	11.7	.76	19.3
	Low Acid Gas	23513	26533	6	297	442	494	735	.020	.51	.57	14.5	.88	22.4
	FT4 Flame Test	23503	26534	8	361	537	563	840	.020	.51	.63	16.0	.92	23.4
		23521	26535	12	480	714	694	1033	.020	.51	.75	19.1	1.06	26.9
		23532	26536	16	600	893	900	1339	.020	.51	.79	20.1	1.16	29.5
		23506	26537	24	800	1191	1175	1749	.020	.51	1.05	26.7	1.42	36.1
		23544	26538	36	1050	1563	1500	2232	.020	.51	1.14	29.0	1.57	39.9
		23575	26546	50	1468	2185	2010	2991	.020	.51	1.37	34.8	1.75	44.5
-25°C Installed -40°C to +105°C (Drv) (75°C Wet)														



Rip Cord
Drain Wires
-25°C Installed
-40°C to +105°C (Dry) (75°C Wet)

20 AWG Triads Stranded (7x28) TC Cond. • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage) • Drain Wires													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC	23545**	26539**	1	139	207	235	350	.020	.51	.27	6.9	.57	14.5
CSA C22.2#174, HLBCD	23546	26540	2	210	313	345	513	.020	.51	.43	10.9	.73	18.5
CSA C22.2#0.3, Clause 4.31	23547	26541	4	270	402	425	632	.020	.51	.50	12.7	.80	20.3
Low Acid Gas, FT4 Flame Test	23548	26542	8	444	661	650	967	.020	.51	.69	17.5	1.00	25.4
	23571	26553	12	632	941	970	1444	.020	.51	.82	20.8	1.24	31.5
	23549	26543	16	740	1101	1090	1622	.020	.51	.91	23.1	1.28	32.5
	23550	26544	24	990	1473	1360	2024	.020	.51	1.11	28.2	1.48	37.6



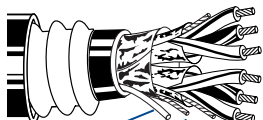
Rip Cord
Drain Wires
-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

18 AWG Pairs Stranded (7x26) TC Cond. • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage) • Drain Wires													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC	23533**	26514**	1	160	238	258	384	.025	.64	.30	7.6	.60	15.2
CSA C22.2#174, HLBCD	23511	26515	2	247	368	384	572	.025	.64	.48	12.2	.78	19.8
CSA C22.2#0.3, Clause 4.31	23530	26516	4	340	506	500	744	.025	.64	.58	14.7	.88	22.4
Low Acid Gas	23528	26517	6	420	625	644	958	.025	.64	.67	17.0	.98	24.9
FT4 Flame Test	23531	26518	8	543	808	827	1230	.025	.64	.73	18.5	1.03	26.2
	23524	26519	12	725	1079	1045	1555	.025	.64	.90	22.9	1.28	32.5
	23519	26520	16	850	1265	1210	1801	.025	.64	.99	25.1	1.37	34.8
	23542	26521	24	1100	1637	1510	2247	.025	.64	1.24	31.5	1.63	41.4
	23554	26555	36	1465	2180	1960	2917	.025	.64	1.41	35.8	1.80	45.7



Rip Cord
Drain Wires
-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

18 AWG Triads Stranded (7x26) TC Cond. • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage) • Drain Wires													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC	23505**	26522**	1	175	260	275	409	.025	.64	.33	8.4	.61	15.5
CSA C22.2#174, HLBCD	23516	26523	2	275	409	417	621	.025	.64	.51	13.0	.81	20.6
CSA C22.2#0.3, Clause 4.31	23515	26524	4	385	573	555	826	.025	.64	.62	15.7	.93	23.6
Low Acid Gas, FT4 Flame Test	23508	26525	6	535	796	780	1161	.025	.64	.75	19.1	1.11	28.2
	23523	26526	8	680	1012	995	1481	.025	.64	.81	20.6	1.18	30.0
	23512	26527	12	916	1363	1215	1808	.025	.64	1.03	26.2	1.40	35.6
	23537	26528	16	1020	1518	1400	2083	.025	.64	1.13	28.7	1.50	38.1
	23536	26529	24	1335	1987	1775	2642	.025	.64	1.37	34.8	1.80	45.7



Rip Cord
Drain Wires
-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

Color Code: Pairs — Black and White with Numbers.
Triads — Black, White and Red with Numbers.

TC = Tinned Copper

*Note: Add D suffix for XLPE insulation. Example: 23543D.
**One pair/triad cables have one foil shield and drain wire

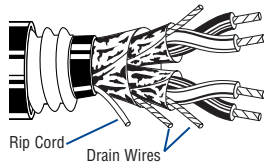
BELDEN

For more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com**

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

CSA Instrumentation Cable**300V ACIC Armored Cables**

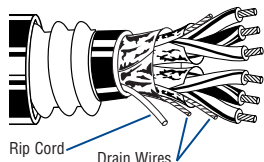
Description	Part No.		No. of Pairs/Triads	Cable Weight Aluminum Armor		Cable Weight Steel Armor		Insulation Thickness		Nominal OD Inner Jacket		Nominal OD Outer Jacket	
	Aluminum Armor	Steel Armor		Lbs./1000 Ft.	kg/km	Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm
16 AWG Pairs Stranded (7x24) TC Conductors • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)													
Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC	23501**	26500**	1	175	260	280	417	.025	.64	.33	8.4	.62	15.8
CSA C22.2#174, HLABCD	23527	26501	2	280	417	425	635	.025	.64	.52	13.2	.81	20.6
CSA C22.2#0.3, Clause 4.31	23509	26503	4	395	588	570	848	.025	.64	.63	16.0	.93	23.6
Low Acid Gas	23500	26504	6	510	759	715	1064	.025	.64	.73	18.5	1.03	26.2
FT4 Flame Test	23510	26505	8	625	930	910	1354	.025	.64	.79	20.1	1.16	29.5
	23525	26506	12	875	1302	1230	1831	.025	.64	1.00	25.4	1.37	34.8
	23539	26507	16	1054	1569	1445	2151	.025	.64	1.12	28.2	1.48	37.6
	23538	26508	24	1397	2079	1840	2738	.025	.64	1.36	34.5	1.75	44.5
	23568	26551	36	1920	2857	2460	3661	.025	.64	1.60	40.6	1.97	50.0



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

16 AWG Triads Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)

Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket													
CSA C22.2#239, Type ACIC	23507**	26502**	1	190	282	295	439	.025	.64	.35	8.9	.63	16.0
CSA C22.2#174, HLBCD	23522	26509	2	342	508	500	744	.025	.64	.58	14.7	.90	22.9
CSA C22.2#0.3, Clause 4.31	23520	26510	4	450	670	640	953	.025	.64	.68	17.3	.95	24.1
Low Acid Gas	23529	26511	6	650	967	928	1381	.025	.64	.78	19.8	1.19	30.2
FT4 Flame Test	23526	26512	8	825	1228	1130	1682	.025	.64	.93	23.6	1.30	33.0
	23541	26513	12	1082	1610	1511	2249	.025	.64	1.13	28.7	1.50	38.1
	23567	26545	16	1285	1912	1705	2537	.025	.64	1.25	31.8	1.64	41.7
	23578	26547	24	1725	2567	2200	3274	.025	.64	1.58	40.1	1.95	49.5



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

TC = Tinned Copper

*Note: Add D suffix for XLPE insulation. Example: 23501D.

**One pair/triad cables have one foil shield and drain wire

Color Code: Pairs — Black and White with Numbers.

Triads — Black, White and Red with Numbers.

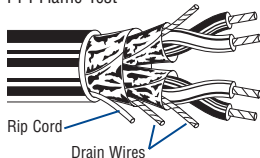
CSA Instrumentation Cable

600V CIC

Description	Part Number	No. of Pairs or Triads	Cable Weight		Jacket Thickness		Nominal OD	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm

18 AWG Pairs Stranded (7x26) TC Conductors • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**PVC Insulation • Black PVC Jacket** (Color Code: Black and White with Numbers)

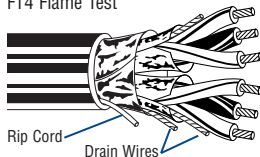
CSA C22.2#239, Type CIC	22417*	1	109	162	.045	1.14	.32	8.13
CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	22405	2	229	341	.045	1.14	.51	12.95
	22404	4	374	557	.060	1.52	.63	16.00
	22418	8	632	941	.060	1.52	.79	20.07
	22421	12	970	1444	.080	2.03	1.00	25.40
	22419	24	1741	2591	.080	2.03	1.36	34.54



-25°C Installed
 -40°C to +105°C (Dry) (75°C Wet)

18 AWG Triads Stranded (7x26) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**PVC Insulation • Black PVC Jacket** (Color Code: Black, White and Red with Numbers)

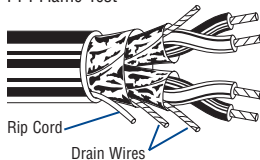
CSA C22.2#239, Type CIC	22442*	1	131	195	.045	1.14	.34	8.64
CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	22443	2	299	445	.060	1.52	.58	14.73
	22444	4	476	708	.060	1.52	.68	17.27
	22445	8	893	1329	.080	2.03	.88	22.35



-25°C Installed
 -40°C to +105°C (Dry) (75°C Wet)

16 AWG Pairs Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**PVC Insulation • Black PVC Jacket** (Color Code: Black and White with Numbers)

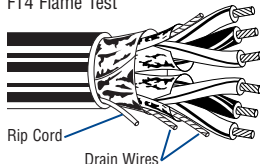
CSA C22.2#239, Type CIC	22416*	1	129	192	.045	1.14	.34	8.64
CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	22409	2	229	341	.045	1.14	.59	14.99
	22410	4	469	698	.060	1.52	.68	17.27
	22446	6	667	993	.060	1.52	.79	20.07
	22411	8	841	1252	.080	2.03	.90	22.86
	22412	12	1235	1838	.080	2.03	1.09	27.69
	22447	24	2250	3349	.080	2.03	1.49	37.85



-25°C Installed
 -40°C to +105°C (Dry) (75°C Wet)

16 AWG Triads Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**PVC Insulation • Black PVC Jacket** (Color Code: Black, White and Red with Numbers)

CSA C22.2#239, Type CIC	22413*	1	167	249	.045	1.14	.36	9.14
CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test	22448	2	372	554	.045	1.14	.62	15.88
	22414	4	606	902	.060	1.52	.72	18.29
	22415	8	1144	1703	.080	2.03	.96	24.38



-25°C Installed
 -40°C to +105°C (Dry) (75°C Wet)

TC = Tinned Copper

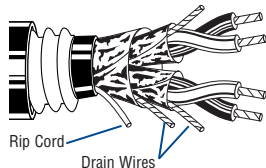
*One pair/triad cables have one foil shield and drain wire

CSA Instrumentation Cable**600V ACIC Armored Cables**

Description	Part No.		No. of Pairs/Triads	Cable Weight Aluminum Armor		Cable Weight Steel Armor		Insulation Thickness		Nominal OD Inner Jacket		Nominal OD Outer Jacket	
	Aluminum Armor	Steel Armor		Lbs./1000 Ft.	kg/km	Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm

18 AWG Pairs Stranded (7x26) TC Cond. • Individual Beldfoil® + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket**

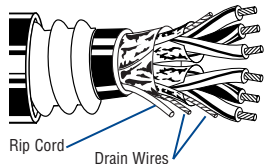
CSA C22.2#239, Type ACIC	24511**	25506**	1	154	229	257	382	.030	.76	.32	8.13	.61	15.49
CSA C22.2#174, HLBCD	24512	25514	2	238	354	387	575	.030	.76	.51	12.95	.82	20.83
CSA C22.2#0.3, Clause 4.31	24513	25503	4	335	499	504	750	.030	.76	.63	16.00	.93	23.62
Low Acid Gas, FT4 Flame Test	24514	25505	8	536	798	829	1233	.030	.76	.79	20.27	1.15	29.21
	24515	25501	12	739	1100	1092	1624	.030	.76	1.00	25.40	1.36	34.54
	24520	25517	24	1169	1740	1674	2490	.030	.76	1.36	34.54	1.75	44.45



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

18 AWG Triads Stranded (7x26) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket**

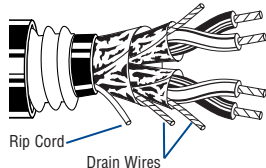
CSA C22.2#239, Type ACIC	24516**	25500**	1	166	247	276	411	.030	.76	.34	8.64	.63	16.00
CSA C22.2#174, HLBCD	24517	25522	2	293	436	455	677	.030	.76	.58	14.73	.89	22.61
CSA C22.2#0.3, Clause 4.31	24518	25520	4	391	582	572	851	.030	.76	.66	16.76	.99	25.15
Low Acid Gas, FT4 Flame Test	24519	25523	8	673	1002	988	1470	.030	.76	.88	22.35	1.29	32.77



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

16 AWG Pairs Stranded (7x24) TC Cond. • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket**

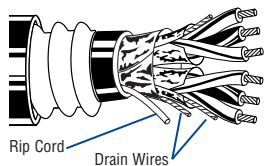
CSA C22.2#239, Type ACIC	24500**	25504**	1	171	254	279	415	.030	.76	.34	8.64	.64	16.26
CSA C22.2#174, HLBCD	24505	25510	2	299	445	455	677	.030	.76	.59	14.99	.89	22.61
CSA C22.2#0.3, Clause 4.31	24502	25511	4	450	670	583	868	.030	.76	.68	17.27	.98	24.89
Low Acid Gas, FT4 Flame Test	24506	25512	6	576	857	880	1310	.030	.76	.79	20.07	1.16	29.46
	24503	25513	8	679	1010	1005	1496	.030	.76	.90	22.86	1.27	32.26
	24504	25518	12	908	1351	1280	1905	.030	.76	1.09	27.69	1.46	37.08
	24510	25519	24	1502	2235	2030	3021	.030	.76	1.49	37.85	1.88	47.75



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

16 AWG Triads Stranded (7x24) TC Conductors • Individual Beldfoil + Polyester Isolation Tape • Overall Beldfoil Shield (100% Coverage)**Interlocked Armor • PVC Insulation* • PVC Inner Jacket • Chrome PVC Outer Jacket**

CSA C22.2#239, Type ACIC	24501**	25502**	1	195	290	309	460	.030	.76	.36	9.14	.66	16.76
CSA C22.2#174, HLBCD	24507	25507	2	339	505	465	692	.030	.76	.62	15.75	.94	23.88
CSA C22.2#0.3, Clause 4.31	24508	25509	4	464	691	793	1180	.030	.76	.72	18.29	1.05	26.67
Low Acid Gas, FT4 Flame Test	24509	25508	8	807	1201	1250	1860	.030	.76	.96	24.38	1.33	33.78



-25°C Installed • -40°C to +105°C (Dry) (75°C Wet)

Color Code: Pairs — Black and White with Numbers.
Triads — Black, White and Red with Numbers.

TC = Tinned Copper

*Note: Add D suffix for XLPE insulation. Example: 24511D.
One pair/triad cables have one foil shield and drain wireBELDEN**

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

CSA Control and Power Cable

600V and 1000V TC/CIC Multi-conductor Cables

Cable Specifications

- CSA C22.2 #230 Type TC
- CSA C22.2 #239 Control and Instrumentation (600V only)
- CSA C22.2 #38 Type TC (1000V only)
- CSA FT4 70,000 BTU Flame Test
- 90°C Dry & Wet
- -40°C Cold Bend, -25°C Cold Impact
- -25°C Installation temp
- Per CEC Part 1, Suitable for use in hazardous locations:
Class 1 — Zone 2
Class 2 — Division 2
- Sunlight Resistant/UV Resistant
- Direct Burial

To Create a Part Number

Add suffix "S" for Overall Foil Shielding

Sample Part Number:

21500S = 600V CSA Tray Control Cable
2-conductor, 14 AWG Bare Copper
Conductor with XLPE Insulation,
PVC Jacket, and Overall Foil Shield

Color Codes

No. of Conductors	Color Combination
2	Black & White
3	Black, Red & Blue
4	Black, Red, Blue & White
5 or more	Black & Number Coded

No. of Conductors	Part Numbers					
	14 AWG (7 Strand)		12 AWG (7 Strand)		10 AWG (7 Strand)	
	600V	1000V	600V	1000V	600V	1000V
2	21500	21300	21550	21350	21600	21400
3	21501	21301	21551	21351	21601	21401
4	21502	21302	21552	21352	21602	21402
5	21503	21303	21553	21353	21603	21403
6	21504	21304	21554	21354	21604	21404
7	21505	21305	21555	21355	21605	21405
8	21506	21306	21556	21356	21606	21406
9	21507	21307	21557	21357	21607	21407
10	21508	21308	21558	21358	21608	21408
11	21509	21309	21559	21359	21609	21409
12	21510	21310	21560	21360	21610	21410
13	21511	21311	21561	21361	21611	21411
14	21512	21312	21562	21362	21612	21412
15	21513	21313	21563	21363	21613	21413
16	21514	21314	21564	21364	21614	21414
17	21515	21315	21565	21365	21615	21415
18	21516	21316	21566	21366	21616	21416
19	21517	21317	21567	21367	21617	21417
20	21518	21318	21568	21368	21618	21418
21	21519	21319	21569	21369	21619	21419
22	21520	21320	21570	21370	21620	21420
23	21521	21321	21571	21371	21621	21421
24	21522	21322	21572	21372	21622	21422
25	21523	21323	21573	21373	21623	21423
26	21524	21324	21574	21374	21624	21424
27	21525	21325	21575	21375	21625	21425
28	21526	21326	21576	21376	21626	21426
29	21527	21327	21577	21377	21627	21427
30	21528	21328	21578	21378	21628	21428
31	21529	21329	21579	21379	21629	21429
32	21530	21330	21580	21380	21630	21430
33	21531	21331	21581	21381	21631	21431
34	21532	21332	21582	21382	21632	21432
35	21533	21333	21583	21383	21633	21433
36	21534	21334	21584	21384	21634	21434
37	21535	21335	21585	21385	21635	21435
38	21536	21336	21586	21386	21636	21436
39	21537	21337	21587	21387	21637	21437
40	21538	21338	21588	21388	21638	21438
41	21539	21339	21589	21389	21639	21439
42	21540	21340	21590	21390	21640	21440
43	21541	21341	21591	21391	21641	21441
44	21542	21342	21592	21392	21642	21442
45	21543	21343	21593	21393	21643	21443
46	21544	21344	21594	21394	21644	21444
47	21545	21345	21595	21395	21645	21445
48	21546	21346	21596	21396	21646	21446
49	21547	21347	21597	21397	21647	21447
50	21548	21348	21598	21398	21648	21448

No. of Cond.	Part Numbers									
	8 AWG (7 Strand)		6 AWG (7 Strand)		4 AWG (7 Strand)		3 AWG (7 Strand)		2 AWG (7 Strand)	
	600V	1000V	600V	1000V	600V	1000V	600V	1000V	600V	1000V
2	21650	21450	21653	21453	21656	21456	21659	21459	21662	21462
3	21651	21451	21654	21454	21657	21457	21660	21460	21663	21463
4	21652	21452	21655	21455	21658	21458	21661	21461	21664	21464

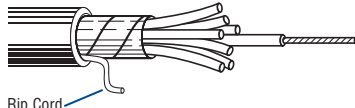
No. of Cond.	Part Numbers									
	1 AWG (19 Strand)		1/0 AWG (19 Strand)		2/0 AWG (19 Strand)		3/0 AWG (19 Strand)		4/0 AWG (19 Strand)	
	600V	1000V	600V	1000V	600V	1000V	600V	1000V	600V	1000V
2	21665	21465	21668	21468	21671	21471	21674	21474	21677	21477
3	21666	21466	21669	21469	21672	21472	21675	21475	21678	21478
4	21667	21467	21670	21470	21673	21473	21676	21476	21679	21479

CSA Control Cable**600V CIC Multi-conductor Cables**

Description	Part Number	No. of Cond.	Cable Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm

14 AWG Stranded (7x22) Bare Copper Conductors**Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)**

CSA C22.2#131, Type CIC
CSA C22.2#0.3, Clause 4.31 Low Acid Gas
FT4 Flame Test



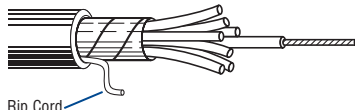
Rip Cord

-25°C Installed
-40°C to +90°C (Dry) (75°C Wet)

22100	2	62	92	.030	.76	.045	1.14	.367	9.32
22101	3	81	121	.030	.76	.045	1.14	.388	9.86
22102	4	101	150	.030	.76	.045	1.14	.423	10.74
22103	5	122	182	.030	.76	.045	1.14	.462	11.74
22104	6	143	213	.030	.76	.045	1.14	.504	12.80
22105	7	160	238	.030	.76	.045	1.14	.504	12.80
22106	8	197	293	.030	.76	.060	1.52	.576	14.63
22107	9	220	327	.030	.76	.060	1.52	.618	15.70
22108	10	226	336	.030	.76	.060	1.52	.669	17.00
22110	12	279	415	.030	.76	.060	1.52	.689	17.50
22114	16	357	531	.030	.76	.060	1.52	.764	19.41
22118	20	467	695	.030	.76	.080	2.03	.886	22.50

12 AWG Stranded (7x20) Bare Copper Conductors**Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)**

CSA C22.2#131, Type CIC
CSA C22.2#0.3, Clause 4.31 Low Acid Gas
FT4 Flame Test



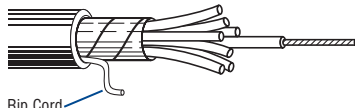
Rip Cord

-25°C Installed
-40°C to +90°C (Dry) (75°C Wet)

22120	2	82	122	.030	.76	.045	1.14	.405	10.29
22121	3	109	162	.030	.76	.045	1.14	.429	10.90
22122	4	140	208	.030	.76	.045	1.14	.469	11.91
22123	5	170	253	.030	.76	.045	1.14	.515	13.08
22124	6	214	319	.030	.76	.060	1.52	.591	15.01
22125	7	240	357	.030	.76	.060	1.52	.591	15.01
22126	8	270	402	.030	.76	.060	1.52	.639	16.23
22127	9	302	449	.030	.76	.060	1.52	.687	17.45
22128	10	336	500	.030	.76	.060	1.52	.745	18.92
22130	12	390	580	.030	.76	.060	1.52	.768	19.51
22134	16	584	869	.030	.76	.080	2.03	.893	22.68
22138	20	655	975	.030	.76	.080	2.03	.992	25.20

10 AWG Stranded (7x18) Bare Copper Conductors**Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)**

CSA C22.2#131, Type CIC
CSA C22.2#0.3, Clause 4.31 Low Acid Gas
FT4 Flame Test



Rip Cord

-25°C Installed
-40°C to +90°C (Dry) (75°C Wet)

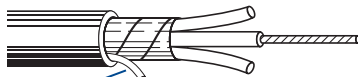
22140	2	148	220	.030	.76	.045	1.14	.736	18.69
22141	3	189	281	.030	.76	.045	1.14	.763	19.38
22142	4	248	369	.030	.76	.060	1.52	.839	21.31
22143	5	293	436	.030	.76	.060	1.52	.891	22.63
22144	6	338	503	.030	.76	.060	1.52	.944	23.98
22145	7	378	563	.030	.76	.060	1.52	.944	23.98
22146	8	424	631	.030	.76	.060	1.52	.999	25.38
22147	9	469	698	.030	.76	.060	1.52	1.074	27.28
22148	10	548	816	.030	.76	.080	2.03	1.182	30.02
22150	12	631	939	.030	.76	.080	2.03	1.209	30.71
22152	14	717	1067	.030	.76	.080	2.03	1.255	31.88
22154	16	805	1198	.030	.76	.080	2.03	1.307	33.20

CSA Control Cable**600V CIC Multi-conductor Cables**

Description	Part Number	No. of Cond.	Cable Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm

8 AWG Stranded (7x16) Bare Copper Conductors**Cross-linked Polyethylene Insulation • Black PVC Jacket** (Color Code: Black and Numbered)

CSA C22.2#131, Type CIC	22160	2	240	357	.045	1.14	.060	1.52	.863	21.92
CSA C22.2#0.3, Clause 4.31 Low Acid Gas	22161	3	308	458	.045	1.14	.060	1.52	.898	22.81
FT4 Flame Test	22162	4	379	564	.045	1.14	.060	1.52	.957	24.31



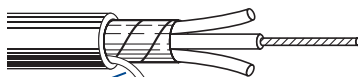
Rip Cord

-25°C Installed

-40°C to +90°C (Dry) (75°C Wet)

6 AWG Stranded (7x14) Bare Copper Conductors**Cross-linked Polyethylene Insulation • Black PVC Jacket** (Color Code: Black and Numbered)

CSA C22.2#131, Type CIC	22170	2	279	415	.060	1.52	.060	1.52	.711	18.06
CSA C22.2#0.3, Clause 4.31 Low Acid Gas	22171	3	383	570	.060	1.52	.060	1.52	.756	19.20
FT4 Flame Test										



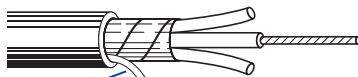
Rip Cord

-25°C Installed

-40°C to +90°C (Dry) (75°C Wet)

4 AWG Stranded (7x12) Bare Copper Conductors**Cross-linked Polyethylene Insulation • Black PVC Jacket** (Color Code: Black and Numbered)

CSA C22.2#131, Type CIC	22180	2	390	580	.060	1.52	.060	1.52	.800	20.32
CSA C22.2#0.3, Clause 4.31 Low Acid Gas	22181	3	580	863	.060	1.52	.080	2.03	.891	22.63
FT4 Flame Test										



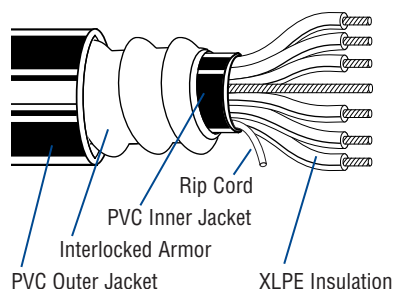
Rip Cord

-25°C Installed

-40°C to +90°C (Dry) (75°C Wet)

CSA Control Cable

600V ACIC and Teck90 Cables — Overview



Introduction

Belden® Teck90 and ACIC cables are designed to meet demanding industrial needs by combining rugged durability and corrosion resistance with flexibility and easy handling.

Teck90 and ACIC Cables are available in a wide range of in-stock and custom constructions to meet the needs of pulp and paper, chemical, petroleum and other demanding industrial and resource industry environments. They are ideal for use in wet or dry areas; ventilated, non-ventilated or ladder-type cable troughs; ventilated flexible cableways; and for direct burial.

Belden Teck90 Cable is marked with "FT4," "HL" designations, and cable constructions are certified to CSA Standard C22.2#131 and C22.2#174 for use in a wide range of hazardous locations. Both inner and outer jackets meet the acid gas evolution requirement of 14% maximum required by CSA Standard C22.2#0.3 Clause 4.31.

Custom cables are available upon request.

Construction

Class B stranded bare copper conductors, cross-link polyethylene insulation, bare copper ground wire, PVC inner jacket, aluminum steel interlocking armor, PVC outer jacket.

- Galvanized steel interlocking armor available as an option.

Voltage Rating

18 to 16 AWG — 600V ACIC

14 to 8 AWG — 600 Volts

14 to 4/0 AWG — 1000 Volts

Temperature Rating

-40°C to 90°C (Dry/Wet)

-25°C installed

Application

Teck90 and ACIC are general-purpose cables used in the pulp and paper, mining, petroleum and chemical industries as well as in commercial buildings.

Teck90 and ACIC may be used under the following conditions:

- Exposed or concealed wiring in dry or wet conditions
- In ventilated, non-ventilated or ladder-type cable trays in dry or wet conditions
- On walls or beams
- Directly buried
- CEC Class I, Division I locations

Minimum Bending Radius

12 times the overall cable diameter

Pulling Tensions

The combined use of Kellems grips and pulling eyes is recommended.

Design Advantages

Insulation Properties

- High tensile strength
- Impact- and crush-resistant
- Heat-resistant
- Excellent elongation
- Moisture-resistant
- Good low temperature properties

Electrical Properties

- High insulation resistance
- Low dielectric loss
- High dielectric strength

Other Features

- Corrosion-resistant
- Versatile and flexible
- Provides cost savings as conduit and ducts are not required
- ACIC has a blue jacket
- Rip cord for inner jacket

Specifications

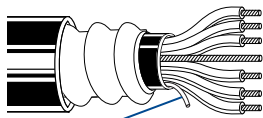
- CSA Standard C22.2#131
- CSA Standard C22.2#174 "Cables and Cable Glands for Use in Hazardous Locations"
- CSA Standard C22.2#0.3 Clause 4.31 "Low Acid Gas"
- CSA Standard C22.2#0.3 Clause 4.11.4 "Cables with FT4 Marking"

CSA Control Cable**600V ACIC Cables**

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

18 AWG Stranded (7x26) Bare Copper Conductors • 18 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Blue PVC Outer Jacket**

CSA C22.2#239
FT4 Flame Test



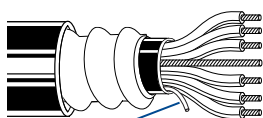
Rip Cord

29030	2	163	243	.32	8.13	.52	13.21	.62	15.75	44	196	7.4	187.96
29031	3	177	263	.34	8.64	.54	13.72	.64	16.26	66	294	7.6	193.04
29032	4	195	290	.37	9.40	.57	14.48	.67	17.02	88	392	8.0	203.20
29033	5	219	326	.41	10.41	.61	15.49	.71	18.03	110	490	8.5	215.90
29034	6	239	356	.45	11.43	.65	16.51	.75	19.05	132	587	9.0	228.60
29035	7	245	365	.45	11.43	.65	16.51	.75	19.05	154	685	9.0	228.60
29036	8	266	396	.48	12.19	.68	17.27	.78	19.81	176	783	9.3	236.22
29038	10	331	493	.56	14.22	.76	19.30	.87	22.10	220	979	10.6	269.24
29040	12	353	525	.62	15.75	.82	20.83	.93	23.62	264	1175	11.1	281.94
29043	15	401	597	.65	16.51	.85	21.59	.96	24.38	330	1469	11.5	292.10
29048	20	466	694	.73	18.54	.93	23.62	1.04	26.42	440	1958	12.4	314.96
29053	25	589	877	.79	20.07	1.05	26.67	1.16	29.46	550	2448	13.9	353.06
29058	30	698	1039	.88	22.35	1.14	28.96	1.25	31.75	660	2937	15.0	381.00
29068	40	827	1231	.97	24.64	1.23	31.24	1.35	34.29	880	3916	16.2	411.48
29078	50	965	1436	1.09	27.69	1.35	34.29	1.47	37.34	1100	4895	17.6	447.04

HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

16 AWG Stranded (7x24) Bare Copper Conductors • 16 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Blue PVC Outer Jacket**

CSA C22.2#239
FT4 Flame Test



Rip Cord

29017	2	202	301	.34	8.64	.54	13.72	.65	16.51	70	312	7.7	195.58
29004	3	221	329	.36	9.14	.56	14.22	.66	16.76	105	467	7.9	200.66
29018	4	242	360	.39	9.91	.59	14.99	.70	17.78	140	623	8.3	210.82
29019	5	264	393	.42	10.67	.62	15.75	.73	18.54	175	779	8.6	218.44
29005	6	292	435	.46	11.68	.66	16.76	.77	19.56	210	935	9.1	231.14
29020	7	314	467	.47	11.94	.67	17.02	.77	19.56	245	1090	9.2	233.68
29021	8	364	542	.50	12.70	.70	17.78	.80	20.32	280	1246	9.6	243.84
29022	10	412	613	.61	15.49	.81	20.57	.92	23.37	350	1558	10.9	276.86
29006	12	441	656	.63	16.00	.83	21.08	.94	23.88	420	1869	11.2	284.48
29023	15	502	748	.68	17.27	.88	22.35	1.00	25.40	525	2336	11.9	302.26
29007	20	636	947	.77	19.56	1.03	26.16	1.13	28.70	700	3115	13.7	347.98
29024	25	845	1258	.89	22.61	1.15	29.21	1.26	32.00	875	3894	15.1	383.54
29008	30	922	1372	.94	23.88	1.20	30.48	1.30	33.02	1050	4673	15.8	401.32
29009	40	1109	1650	1.06	26.92	1.32	33.53	1.41	35.81	1400	6230	17.3	439.42
29016	50	1306	1944	1.19	30.23	1.45	36.83	1.54	39.12	1750	7788	18.8	477.52
29025	60	1390	2070	1.27	32.26	1.53	38.86	1.66	42.16	2100	9345	19.9	505.46

HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

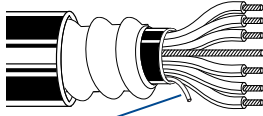
XLPE = Cross-linked Polyethylene

Color Code: #1 conductor is white; remaining conductors are black with number coding. Other color codes available upon request.

CSA Control Cable**600V Teck90 Cables**

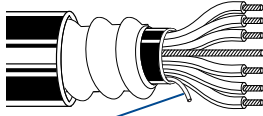
Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

14 AWG Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire

Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test  Rip Cord	C5500	2	198	296	.36	9.14	.56	14.22	.66	16.76	108	481	7.8	198.12
	C5501	3	222	331	.39	9.91	.58	14.73	.66	16.76	162	721	8.2	208.28
	C5502	4	251	375	.42	10.67	.62	15.75	.71	18.03	216	961	8.5	215.90
	C5503	5	284	424	.47	11.94	.66	16.76	.74	18.80	270	1202	9.0	228.60
	C5504	6	317	473	.51	12.95	.70	17.78	.78	19.81	324	1442	9.5	241.30
	C5505	7	331	494	.51	12.95	.70	17.78	.78	19.81	378	1682	9.5	241.30
	C5506	8	414	618	.58	14.73	.77	19.56	.86	21.84	432	1922	10.4	264.16
	C5508	10	510	761	.67	17.02	.93	23.62	.95	24.13	540	2403	12.3	312.42
	C5510	12	551	822	.69	17.53	.95	24.13	.97	24.64	648	2884	12.6	320.04
	C5513	15	636	949	.77	19.56	1.03	26.16	1.11	28.19	810	3605	14.1	358.14
	C5518	20	810	1209	.90	22.86	1.16	29.46	1.24	31.50	1080	4806	15.1	383.54
	C5523	25	948	1415	.90	22.86	1.24	31.50	1.33	33.78	1350	6008	16.1	408.94
	C5528	30	1047	1563	1.05	26.67	1.30	33.02	1.40	35.56	1620	7209	16.8	426.72
	C5529	40	1310	1955	1.20	30.48	1.42	36.07	1.51	38.35	2160	9612	18.3	464.82
	C6064	50	1620	2418	1.35	34.29	1.60	40.64	1.66	42.16	2700	12015	20.5	520.70

HAZ LOC
 CSA C22.2#0.3 Clause 4.31 Low Acid Gas

12 AWG Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire

Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket														
CSA C22.2#131 FT4 Flame Test  Rip Cord	C5530	2	225	336	.41	10.41	.60	15.24	.69	17.53	172	765	8.3	210.82
	C5531	3	261	390	.43	10.92	.62	15.75	.70	17.78	258	1148	8.6	218.44
	C5532	4	301	449	.47	11.94	.66	16.76	.73	18.54	344	1531	9.1	231.14
	C5533	5	348	519	.52	13.21	.71	18.03	.78	19.81	430	1914	9.1	231.14
	C5534	6	435	649	.59	14.99	.78	19.81	.86	21.84	516	2296	10.5	266.70
	C5535	7	450	672	.59	14.99	.78	19.81	.86	21.84	602	2679	10.5	266.70
	C5536	8	506	755	.64	16.26	.83	21.08	.92	23.37	688	3062	11.1	281.94
	C5538	10	633	945	.75	19.05	1.01	25.65	1.02	25.91	860	3827	13.3	337.82
	C5540	12	696	1039	.77	19.56	1.03	26.16	1.12	28.45	1032	4592	13.5	342.90
	C5543	15	823	1228	.90	22.86	1.16	29.46	1.24	31.50	1290	5741	15.1	383.54
	C5548	20	1035	1545	.99	25.15	1.25	31.75	1.34	34.04	1720	7654	16.5	419.10
	C5553	25	1230	1836	1.10	27.94	1.36	34.54	1.45	36.83	2150	9568	17.6	447.04
	C5558	30	1390	2075	1.20	30.48	1.46	37.08	1.51	38.35	2580	11481	17.6	447.04

HAZ LOC
 CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

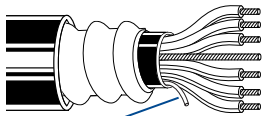
Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
 4 conductors — Black, Red, Blue, White
 5 or more conductors — Black and numbered

CSA Control Cable**600V Teck90 Cables**

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

10 AWG Stranded (7x18) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131
FT4 Flame Test



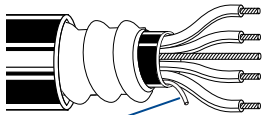
Rip Cord

C5560	2	278	415	.48	12.19	.66	16.76	.72	18.29	296	1317	8.9	226.06
C5561	3	327	488	.50	12.70	.70	17.78	.75	19.05	444	1976	9.2	233.68
C5562	4	405	604	.57	14.48	.77	19.56	.79	20.07	592	2634	10.1	256.64
C5563	5	487	727	.63	16.00	.83	21.08	.93	23.62	740	3293	11.5	292.10
C5564	6	556	830	.68	17.27	.88	22.35	.93	23.62	888	3952	11.5	292.10
C5565	7	627	936	.69	17.53	.89	22.61	.99	25.15	1036	4610	11.8	299.72
C5566	8	739	1103	.74	18.80	.94	23.88	1.00	25.40	1184	5269	12.4	314.96
C5568	10	964	1439	.84	21.34	1.10	27.94	1.24	31.50	1480	6586	14.4	365.76
C5570	12	1067	1593	.93	23.62	1.19	30.23	1.26	32.00	1776	7903	15.6	396.24
C5573	15	1297	1936	.99	25.15	1.25	31.75	1.37	34.80	2220	9879	16.3	414.02
C5578	20	1546	2307	1.13	28.70	1.39	35.31	1.47	37.34	2960	13172	16.9	429.26
C5579	25	1802	2690	1.26	32.00	1.52	38.61	1.60	40.64	3700	16465	19.7	500.38
C5580	30	2142	3197	1.34	34.04	1.60	40.64	1.66	42.16	4440	19758	20.6	523.24

HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131
FT4 Flame Test



Rip Cord

C5583	2	407	607	.59	14.99	.78	19.81	.86	21.84	384	1709	10.6	269.24
C5581	3	471	703	.63	16.00	.83	21.08	.90	22.86	576	2563	10.8	274.32
C5582	4	606	904	.69	17.53	.89	22.61	.97	24.64	768	3418	12.5	317.50

Dual Rated 600V, 1000V
HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

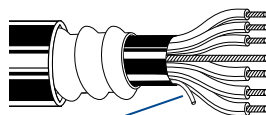
Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
4 conductors — Black, Red, Blue, White
5 or more conductors — Black and numbered

CSA Control Cable**600V Teck90 Cables**

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

Composite 14 AWG Stranded (7x22) and 12 AWG Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .031" (.79mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131 FT4 Flame Test	6054	3c/14 3c/12	369	549	.560	14.22	.75	19.05	.89	22.61	424	1886	8.4	213.36
---------------------------------	-------------	----------------	-----	-----	------	-------	-----	-------	-----	-------	-----	------	-----	--------



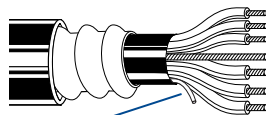
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG Stranded (7x22) and 10 AWG Stranded (7x18) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .031" (.79mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131 FT4 Flame Test	6051	3c/14 3c/10	432	643	.600	15.24	.82	20.83	.92	23.37	608	2705	9.0	228.60
---------------------------------	-------------	----------------	-----	-----	------	-------	-----	-------	-----	-------	-----	------	-----	--------



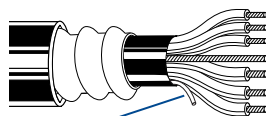
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG Stranded (7x22) and 8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .046" (1.17mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131 FT4 Flame Test	6059	3c/14 3c/8	608	905	.700	17.78	.89	22.51	.98	24.92	1160	5160	9.8	248.92
---------------------------------	-------------	---------------	-----	-----	------	-------	-----	-------	-----	-------	------	------	-----	--------



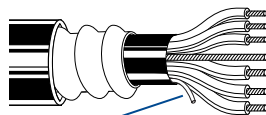
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

Composite 14 AWG Stranded (7x22) and 6 AWG Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .061" (1.55mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131 FT4 Flame Test	6060	3c/14 3c/6	849	1264	.810	20.57	1.06	27.00	1.16	29.41	1700	7562	11.6	294.64
---------------------------------	-------------	---------------	-----	------	------	-------	------	-------	------	-------	------	------	------	--------



Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

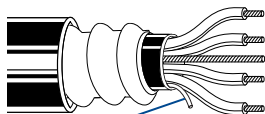
Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
 4 conductors — Black, Red, Blue, White
 5 or more conductors — Black and numbered

CSA Control Cable**1000V Teck90 Cables**

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

14 AWG Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131	C5701	3	251	374	.47	11.94	.67	17.02	.73	18.54	162	721	9.2	233.68
FT4 Flame Test	C5702	4	301	448	.51	12.95	.71	18.03	.81	20.57	216	961	9.7	246.38



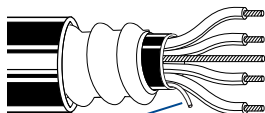
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

12 AWG Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131	C5730	2	253	377	.48	12.19	.68	17.27	.74	18.80	172	765	9.3	236.22
FT4 Flame Test	C5731	3	291	433	.51	12.95	.71	18.03	.76	19.30	258	1148	9.7	246.38
	C5732	4	368	548	.59	14.99	.75	19.05	.85	21.59	344	1531	10.8	274.32



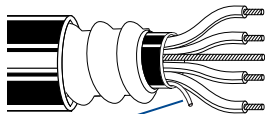
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

10 AWG Stranded (7x18) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131	C5760	2	285	424	.56	14.22	.79	19.99	.70	17.71	296	1317	10.3	261.62
FT4 Flame Test	C5761	3	389	581	.59	14.99	.79	20.07	.85	21.59	444	1976	10.3	261.62
	C5762	4	460	687	.65	16.51	.85	21.59	.90	22.86	592	2634	11.5	292.10



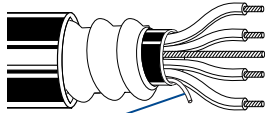
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131	C5583	2	407	607	.59	14.99	.78	19.81	.86	21.84	384	1709	10.6	269.24
FT4 Flame Test	C5581	3	471	703	.63	16.00	.83	21.08	.90	22.86	576	2563	10.8	274.32
	C5582	4	606	905	.69	17.53	.89	22.61	.97	24.64	768	3418	12.5	317.50



Rip Cord

Dual Rated 600V, 1000V

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
 4 conductors — Black, Red, Blue, White
 5 or more conductors — Black and numbered

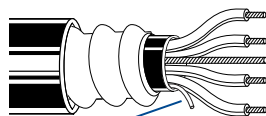
CSA Control Cable

1000V Teck90 Cables

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

6 AWG Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131	C5590	2	567	844	.73	18.54	.99	25.15	1.10	27.94	610	2713	12.8	325.12
FT4 Flame Test	C5591	3	685	1019	.78	19.81	1.04	26.42	1.15	29.21	915	4072	13.4	340.36
	C5592	4	927	1380	.89	22.61	1.15	29.21	1.24	31.50	1220	5429	14.9	378.46



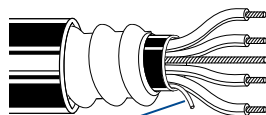
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

4 AWG Stranded (7x12) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131	C5601	3	961	1430	.91	23.11	1.17	29.72	1.23	31.24	1455	6475	15.2	386.08
FT4 Flame Test	C5602	4	1202	1794	.91	23.11	1.25	31.75	1.33	33.78	1940	8633	16.2	411.48



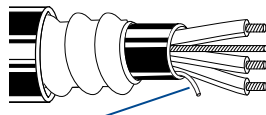
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

3 AWG Stranded (7x11) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131	C5611	3	1126	1681	.97	24.64	1.23	31.24	1.30	33.02	1836	8170	15.8	401.32
FT4 Flame Test														



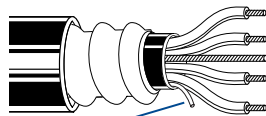
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

2 AWG Stranded (7x10) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131	C5621	3	1291	1927	1.02	25.91	1.28	32.51	1.37	34.80	2316	10302	16.5	419.10
FT4 Flame Test	C5622	4	1691	2524	1.12	28.45	1.38	35.05	1.48	37.59	3088	13736	17.7	449.58



Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)
 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
 4 conductors — Black, Red, Blue, White

CSA Control Cable

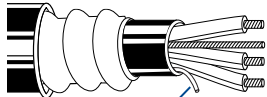
1000V Teck90 Cables

Description	Part No.	No. of Cond.	Cable Weight		Inner Jacket OD		Armor OD		Outer Jacket		Maximum Pull Tension		Minimum Bend Radius	
			Lbs./1000 Ft.	kg/km	Inch	mm	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

1 AWG Stranded (19x14) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire

Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

CSA C22.2#131	C5625	3	1620	2411	1.25	31.75	1.51	38.35	1.59	40.39	1980	8807	19.1	485.14
FT4 Flame Test	C5626	4	2173	3234	1.34	34.04	1.57	39.88	1.68	42.67	2680	11921	20.2	513.08

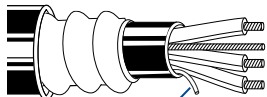


HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

1/0 AWG Stranded (19x12) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire

Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

CSA C22.2#131	C5627	3	1912	2854	1.34	34.04	1.60	40.64	1.67	42.42	3582	15940	20.0	508.0
FT4 Flame Test	6164	4	2514	3742	1.44	36.58	1.67	42.42	1.78	45.21	4700	20906	21.4	543.56

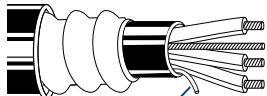


HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

2/0 AWG Stranded (19x11) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire

Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

CSA C22.2#131	C5635	3	2300	3423	1.40	35.56	1.63	41.40	1.74	44.20	4200	12010	20.9	530.86
FT4 Flame Test	6157	4	3039	4523	1.55	39.37	1.84	46.74	1.95	49.53	5500	24465	23.4	594.36

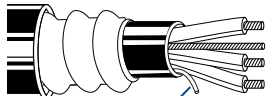


HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

3/0 AWG Stranded (19x10) Bare Copper Conductors • 4 AWG Bare Copper Ground Wire

Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

CSA C22.2#131	6163	3	2905	4324	1.51	38.10	1.80	45.72	1.91	48.26	5020	11121	22.9	579.12
FT4 Flame Test	6179	4	3700	5506	1.67	42.42	1.96	49.78	2.07	52.58	6500	28913	24.8	629.92

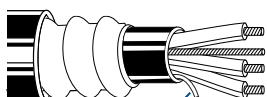


HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

4/0 AWG Stranded (19x9.5) Bare Copper Conductors • 4 AWG Bare Copper Ground Wire

Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket

CSA C22.2#131	6193	3	3450	5134	1.63	41.40	1.92	48.77	2.03	51.56	6650	29580	24.4	619.76
FT4 Flame Test														



HAZ LOC
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)
4 conductors — Black, Red, Blue, White

CSA Control Cable

1000V Variable Frequency Drive Cable

Cable Specifications

- CSA C22.2 #38 Type TC
- CSA C22.2 #230 Type TC
- CSA FT4 70,000 BTU Flame Test
- 90°C Dry and Wet
- -40°C Cold Bend, -25°C Cold Impact
- -25°C Installation temp
- Per CEC Part 1, Suitable for Use in Hazardous Locations:
Class 1 — Zone 2
Class 2 — Division 2
- Sunlight Resistant/UV Resistant
- Direct Burial

14 to 2 AWG with Foil/Braid Shield

Belden's classic line of VFD cables, with foil/braid shield, is offered in 14 to 2 AWG, and continues to be the highest-performing solution in the market. The oversized XLPE insulation provides the lowest capacitance available in a VFD cable. Its highly effective dual shielding provides the lowest resistance to ground path, which improves common mode current containment. Included are a full-size, insulated green ground wire with a yellow stripe, as well as a drain wire for ease of installation and termination. The 85% braid coverage offers optimum EMI low frequency noise protection, while the 100% aluminum/Mylar tape offers RFI high frequency noise protection. Cables are round and smooth for proper sealing of glands and molding applications.

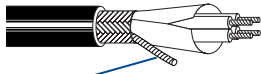
Large AWG (1 to 4/0) with Copper Tape Shield, Symmetrical Design

Belden's symmetrical design combines the benefits of our classic line of VFD cables, with additional features for use on larger, more powerful AC motor drives. Its highly effective shielding provides a low resistance ground path, which improves common mode current containment. The spirally applied dual copper tapes provide improved flexibility and EMI/RFI noise protection. Three symmetrical bare ground wires provide a balanced ground system. This reduces the likelihood of premature motor bearing or motor insulation failure.

Description	Part Number	AWG	Stranding	Shield
-------------	-------------	-----	-----------	--------

14 to 2 AWG (3) Stranded Bare Copper Circuit Conductors + (1) Full-sized PVC Insulated Ground • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage) • Full Size TC Drain Wire (ICEA Method 4 Color Code: Black and Numbered, Green/Yellow Ground)

XLPE Insulation • Black Sunlight- and Oil-resistant PVC Jacket

1000V CSA TC	29550	14	7	Beldfoil (100% Coverage) + TC Braid (85% Coverage)
FT4	29551	12	7	
RW90 Circuit Conductors	29552	10	7	
	29553	8	7	
	29554	6	7	
	29555	4	7	
	29556	2	7	

1 to 4/0 AWG (3) Stranded Bare Copper Circuit Conductors + (3) Symmetrical Bare Copper Grounds • (2) Spiral Copper Tape Shields

XLPE Insulation • Black Sunlight- and Oil-resistant PVC Jacket

1000V CSA TC	29557	1	19	(2) Spiral Copper Tapes
FT4	29558	1/0	19	
XHHW-2 Circuit Conductors	29559	2/0	19	
	29560	3/0	19	
	29561	4/0	19	

Products listed are subject to minimum order quantities.