


# Unshielded

Telephone Cables

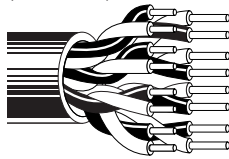
Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

**24 AWG Solid Tinned Copper Conductors • Twisted Pairs**

<b>PVC Insulation • Chrome PVC Jacket</b>																
	9562	UL AWM Style 2576 (150V 80°C)	NEC:	2	See	U-500	U-152.4	10.5	4.8	.010	.25	.032	.81	.199	5.05	
		CMG		Chart 4	500	152.4	9.0	4.1								
		CEC:		(Tech Info Section)	U-1000	U-304.8	20.0	9.1								
		CMG FT4			1000	304.8	18.0	8.2								
	9566	NEC:	6	See	U-500	U-152.4	21.5	9.8	.010	.25	.032	.81	.289	7.34		
		CMG		Chart 4	500	152.4	23.5	10.7								
		CEC:		(Tech Info Section)	U-1000	U-304.8	42.0	19.1								
		CMG FT4			1000	304.8	45.0	20.5								
	9570	NEC:	10	See	500	152.4	31.5	14.3	.010	.25	.035	.89	.310	7.87		
		CMG		Chart 4	1000	304.8	63.0	28.6								
		CEC:		(Tech Info Section)												
		CMG FT4														
9585	NEC:	25	See	500	152.4	74.0	33.6	.010	.25	.040	1.02	.480	12.19			
	CMG		Chart 4	1000	304.8	144.0	65.5									
	CEC:		(Tech Info Section)													
	CMG FT4															

**22 AWG Solid Tinned Copper Conductors • Twisted Pairs**

<b>PVC Insulation • Chrome PVC Jacket</b>															
	8740	UL AWM Style 2576 (150V 80°C)	NEC:	1	See	U-500	U-152.4	7.5	3.4	.010	.25	.032	.81	.156	3.96
		CMG		Chart 3	U-1000	U-304.8	14.0	6.4							
		CEC:		(Tech Info Section)											
		CMG FT4													
	8741	NEC:	2	See	U-500	U-152.4	13.5	6.1	.010	.25	.032	.81	.230	5.84	
		MPG, CMG		Chart 3	U-1000	U-304.8	25.0	11.3							
		CEC:		(Tech Info Section)	1000	304.8	27.0	12.2							
		CMG FT4													
	8742	NEC:	3	See	500	152.4	17.0	7.7	.010	.25	.032	.81	.242	6.15	
		MPG, CMG		Chart 3	U-1000	U-304.8	31.0	14.1							
		CEC:		(Tech Info Section)	1000	304.8	33.0	15.0							
		CMG FT4													
8757	NEC:	4	See	500	152.4	20.0	9.1	.010	.25	.032	.81	.264	6.71		
	MPG, CMG		Chart 3	U-1000	U-304.8	38.0	17.2								
	CEC:		(Tech Info Section)	1000	304.8	40.0	18.2								
	CMG FT4														
8743	NEC:	6	See	U-500	U-152.4	26.5	12.0	.010	.25	.032	.81	.293	7.44		
	MPG, CMG		Chart 3	U-1000	U-304.8	51.0	23.1								
	CEC:		(Tech Info Section)	1000	304.8	53.0	24.1								
	CMG FT4														
9160	NEC:	8	See	500	152.4	35.5	16.1	.010	.25	.035	.89	.323	8.20		
	MPG, CMG		Chart 3	1000	304.8	71.0	32.3								
	CEC:		(Tech Info Section)												
	CMG FT4														
8744	NEC:	9	See	1000	304.8	79.0	35.9	.010	.25	.035	.89	.350	8.89		
	MPG, CMG		Chart 3												
	CEC:		(Tech Info Section)												
	CMG FT4														




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

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# Unshielded

## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	
<b>22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs</b>															
<b>PVC Insulation • Chrome PVC Jacket</b>															
	9744	NEC:	2	See Chart 3 (Tech Info Section)	U-500	U-152.4	13.5	6.1	.010	.25	.032	.81	.244	6.20	
		CMG			500	152.4	14.0	6.4							
		CEC:			U-1000	U-304.8	26.0	11.8							
			CMG FT4			1000	304.8	27.0	12.3						
	9745	NEC:	3	See Chart 3 (Tech Info Section)	U-500	U-152.4	18.0	8.2	.010	.25	.032	.81	.257	6.53	
		CMG			500	152.4	18.0	8.2							
		CEC:			U-1000	U-304.8	34.0	15.4							
			CMG FT4			1000	304.8	36.0	16.4						
	9746	NEC:	4	See Chart 3 (Tech Info Section)	500	152.4	22.5	10.2	.010	.25	.032	.81	.281	7.14	
		CMG			1000	304.8	42.0	19.1							
		CEC:													
			CMG FT4												
	8747	NEC:	6	See Chart 3 (Tech Info Section)	100	30.5	6.2	2.8	.010	.25	.035	.89	.320	8.13	
		CMG			500	152.4	30.0	13.6							
		CEC:			1000	304.8	59.0	26.8							
		CMG FT4													
8748	NEC:	9	See Chart 3 (Tech Info Section)	100	30.5	8.6	3.9	.010	.25	.037	.94	.389	9.88		
	CMG			500	152.4	43.5	19.8								
	CEC:			1000	304.8	84.0	38.2								
		CMG FT4													
9747	NEC:	12	See Chart 3 (Tech Info Section)	100	30.5	11.5	5.2	.010	.25	.040	1.02	.425	10.80		
	CMG			500	152.4	55.0	25.0								
	CEC:			1000	304.8	109.0	49.5								
		CMG FT4													
8749	NEC:	15	See Chart 3 (Tech Info Section)	500	152.4	64.0	29.1	.010	.25	.040	1.02	.440	11.18		
	CMG			1000	304.8	124.0	56.4								
	CEC:														
		CMG FT4													
9748	NEC:	19	See Chart 3 (Tech Info Section)	500	152.4	81.5	37.0	.010	.25	.040	1.02	.505	12.83		
	CMG			1000	304.8	159.0	72.3								
	CEC:														
		CMG FT4													
8750	NEC:	27	See Chart 3 (Tech Info Section)	1000 <sup>†</sup>	304.8	221.0	100.5	.010	.25	.045	1.14	.575	14.61		
	CMG														
	CEC:														
		CMG FT4													

<sup>†</sup>Spools are one piece, but length may vary -0% to +20% from length shown.


# Unshielded

Audio, Control and Instrumentation Cables  
Plenum-Rated


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

**22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs**

**Plenum • FEP Insulation • Red FEP Jacket**

	<b>88442</b>	NEC:	1	Black & Red	100	30.5	2.3	1.0	.006	.15	.012	.30	.102	2.59
		CMP			500 <sup>†</sup>	152.4	5.5	2.5						
		CEC:			1000 <sup>†</sup>	304.8	8.0	3.6						
		CMP FT6												
	<b>88741</b>	NEC:	2	Black & Red, Black & White	500 <sup>†</sup>	152.4	8.0	3.6	.006	.15	.012	.30	.169	4.29
		CMP			1000 <sup>†</sup>	304.8	16.0	7.3						
		CEC:												
		CMP FT6												
	<b>88757</b>	NEC:	4	Black & Red, Black & White, Black & Green, Black & Blue	500 <sup>†</sup>	152.4	14.0	6.4	.006	.15	.019	.23	.200	5.08
		CMP			1000 <sup>†</sup>	304.8	28.0	12.7						
		CEC:												
		CMP FT6												

**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

	<b>82442</b>	NEC:	1	Black & Red	U-1000 <sup>†</sup>	U-304.8	9.0	4.1	.006	.15	.014	.36	.112	2.84
		CMP			1000 <sup>†</sup>	304.8	8.0	3.6						
		CEC:												
		CMP FT6												
	<b>82741</b>	NEC:	2	Black & Red, Black & White	U-1000 <sup>†</sup>	U-304.8	18.0	8.2	.006	.15	.014	.36	.179	4.55
		CMP			1000 <sup>†</sup>	304.8	20.0	9.1						
		CEC:												
		CMP FT6												
	<b>82742</b>	NEC:	3	Black & Red, Black & White, Black & Green	U-1000 <sup>†</sup>	U-304.8	24.0	10.9	.006	.15	.014	.36	.191	4.85
		CMP			1000 <sup>†</sup>	304.8	26.0	11.8						
		CEC:												
		CMP FT6												
	<b>82757</b>	NEC:	4	Black & Red, Black & White, Black & Green, Black & Blue	1000 <sup>†</sup>	304.8	32.0	14.5	.006	.15	.014	.36	.210	5.33
		CMP												
		CEC:												
		CMP FT6												
	<b>82743</b>	NEC:	6	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown	U-1000 <sup>†</sup>	U-304.8	44.0	20.0	.006	.15	.015	.38	.238	6.05
		CMP			1000 <sup>†</sup>	304.8	46.0	20.9						
		CEC:												
		CMP FT6												



<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

# Unshielded


## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm


### 20 AWG Stranded (7x28) Tinned Copper Conductors • Twisted Pairs

PVC Insulation • Chrome PVC Jacket																	
	8205	NEC:	1	See Chart 3 (Tech Info Section)	100	30.5	2.6	1.2	.013	.33	.025	.64	.180	4.57			
		CMG			U-500	U-152.4	9.0	4.1									
		CEC:			500	152.4	9.0	4.1									
		CMG FT4			U-1000	U-304.8	18.0	8.2									
					1000	304.8	18.0	8.2									
	9750	NEC:	3	See Chart 3 (Tech Info Section)	500	152.4	26.5	12.0	.013	.33	.035	.89	.299	7.59			
		CMG			1000	304.8	50.0	22.7									
		CEC:															
		CMG FT4															
	9751	NEC:	6	See Chart 3 (Tech Info Section)	100	30.5	9.1	4.1	.013	.33	.035	.89	.366	9.30			
		CMG			500	152.4	45.0	20.5									
		CEC:			1000	304.8	89.0	40.5									
		CMG FT4															
	9752	NEC:	9	See Chart 3 (Tech Info Section)	100	30.5	13.1	5.9	.013	.33	.035	.89	.429	10.90			
		CMG			500	152.4	65.5	29.8									
		CEC:			1000	304.8	125.0	56.8									
		CMG FT4															
9755	NEC:	15	See Chart 3 (Tech Info Section)	100	30.5	17.9	8.1	.013	.33	.040	1.02	.545	13.84				
	CMG			1000	304.8	194.0	88.2										
	CEC:																
	CMG FT4																

### 19 AWG Solid Bare Copper Conductors • Twisted Pair

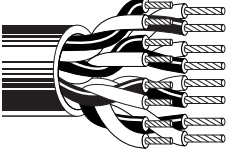
PVC Insulation • Chrome PVC Jacket																
	8486	NEC:	1	Brown, Tan	U-500	U-152.4	9.5	4.3	.015	.38	.025	.64	.182	4.62		
		CM			U-1000	U-304.8	18.0	8.2								
		CEC:			1000	304.8	19.0	8.6								
		CM														

### 18 AWG Stranded (7x26) Tinned Copper Conductors • Twisted Pair

PVC Insulation • Chrome PVC Jacket																
	8461	NEC:	1	Black, White	100	30.5	3.2	1.4	.022	.56	.028	.71	.234	5.94		
		CMG			U-500	U-152.4	14.0	6.4								
		CEC:			500	152.4	13.5	6.1								
		CMG FT4			U-1000	U-304.8	26.0	11.8								
					1000	304.8	27.0	12.2								

# Unshielded

## Audio, Control and Instrumentation Cables


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	
<b>18 AWG Stranded (16x30) Tinned Copper Conductors • Twisted Pairs</b>															
<b>PVC Insulation • Chrome PVC Jacket</b>															
	9740	NEC: CMG CEC: CMG FT4	1	See Chart 3 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	12.5 12.5 24.0 24.0	5.7 5.7 10.9 10.9	.014	.36	.032	.81	.210	5.33	
															For Plenum versions of 9740, see 89740, 87740 or 82740.
	9156	NEC: CMG CEC: CMG FT4	2	See Chart 3 (Tech Info Section)	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	25.0 27.0 49.0 51.0	11.3 12.2 22.2 23.2	.014	.36	.035	.89	.333	8.46	
	8690	NEC: CMG CEC: CMG FT4	3	See Chart 3 (Tech Info Section)	100 U-500 500 1000	30.5 U-152.4 152.4 304.8	7.0 32.5 34.0 65.0	3.2 14.8 15.4 29.5	.014	.36	.032	.81	.347	8.81	
	9157	NEC: CMG CEC: CMG FT4	4	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.4 41.0 83.0	3.8 18.6 37.7	.014	.36	.032	.81	.381	9.68	
	9159	NEC: CMG CEC: CMG FT4	5	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	50.0 99.0	22.7 45.0	.014	.36	.032	.81	.391	9.93	
	8691	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	58.0 115.0	26.4 52.3	.014	.36	.032	.81	.433	11.00	
	9161	NEC: CMG CEC: CMG FT4	8	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	14.2 78.0 152.0	6.4 35.6 69.3	.014	.36	.037	.94	.485	12.32	
	8692	NEC: CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	87.0 170.0	39.5 77.3	.014	.36	.040	1.02	.524	13.31	
	9741	NEC: CMG CEC: CMG FT4	12	See Chart 3 (Tech Info Section)	100 1000	30.5 304.8	25.4 220.0	11.5 99.8	.014	.36	.046	1.17	.600	15.24	
	9742	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	30.9 146.5 291.0	14.0 66.5 132.0	.014	.36	.051	1.30	.677	17.20	
	9743	NEC: CMG CEC: CMG FT4	19	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	37.0 179.0 355.0	16.8 81.4 161.4	.014	.36	.055	1.40	.721	18.31	


## Unshielded


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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm


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

Plenum • FEP Insulation • Red FEP Jacket																
	300V RMS	89740	NEC: CMP CEC: CMP FT6	1	Black, Red	100	30.5	3.0	1.4	.006	.17	.009	.23	.136	3.45	
						500 <sup>†</sup>	152.4	9.0	4.1							
						1000 <sup>†</sup>	304.8	15.0	6.8							


Plenum • FEP Insulation • Red Fluorocopolymer Jacket																
	300V RMS	87740	NEC: CMP CEC: CMP FT6	1	Black, Red	500 <sup>†</sup>	152.4	9.0	4.1	.006	.17	.011	.28	.140	3.56	
						1000 <sup>†</sup>	304.8	15.0	6.8							

Plenum • FEP Insulation • Natural Flamarrest® Jacket																
	300V RMS	82740	NEC: CMP CEC: CMP FT6	1	Black, Red	U-1000	U-304.8	17.0	7.7	.006	.17	.015	.38	.147	3.73	
						1000 <sup>†</sup>	304.8	16.0	7.3							

### 16 AWG Stranded (19x29) Tinned Copper Conductors • Twisted Pair


PVC Insulation • Chrome PVC Jacket																
	UL AWM Style 2598 (300V 60°C)	8471	NEC: CMG CEC: CMG FT4	1	Black, White	U-500	U-152.4	21.0	9.5	.023	.58	.032	.81	.274	6.96	
						500	152.4	20.0	9.1							
						U-1000	U-304.8	41.0	18.6							
						1000	304.8	43.0	19.5							

### 14 AWG Stranded (42x30) Tinned Copper Conductors • Twisted Pair

PVC Insulation • Chrome PVC Jacket																
	UL AWM Style 2587 (600V 90°C)	8473	NEC: CL3 CEC: FAS 90 FT4	1	Black, White	U-500	U-152.4	29.0	13.2	.031	.79	.032	.81	.340	8.64	
						500	152.4	30.5	13.9							
						1000	304.8	58.0	26.4							

See NEC Guidelines for applicable CL3 voltage ratings.

### 12 AWG Stranded (65x30) Tinned Copper Conductors • Twisted Pair

PVC Insulation • Chrome PVC Jacket																
	UL AWM Style 2587 (600V 90°C)	8477	NEC: CL3R	1	Black, White	U-500	U-152.4	41.5	18.8	.032	.81	.035	.89	.386	9.80	
						500	152.4	43.5	19.7							
						1000	304.8	85.0	38.6							

See NEC Guidelines for applicable CL3 voltage ratings.

<sup>†</sup>Spools are one piece, but length may vary ±10% from length shown.

# Overall Beldfoil® Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**24 AWG Stranded (7x32) TC Conductors • Twisted Pair • Overall Beldfoil Shield\* (100% Coverage) • 24 AWG Stranded TC Drain Wire**

**Polyolefin Insulation • Black Matte PVC Jacket**

<b>High-Flex</b> 300V RMS	<b>1508A</b>	NEC: CM	1	Black, Red	500	152.4	6.5	2.9	.008	.20	.024	.61	.131	3.33	31	102	58	190
					1000	304.8	11.0	5.0										



Jacket and shield are bonded so both can be removed with automatic stripping equipment.

**Polypropylene Insulation • PVC Jacket (Available in Gray, Brown, Red, Green, Lt. Blue, Purple, White or Black)**

300V RMS	<b>1883A</b>	NEC: CMR	1	Black, Red	U-1000	U-304.8	11.0	5.0	.008	.20	.020	.51	.123	3.12	31	102	58	190
					1000*	304.8	11.0	5.0										



Z-Fold®

\* 1000 ft. put-up available in Gray only.

Jacket and shield are bonded so both can be removed with automatic stripping equipment. For cross-connect use with 1408R Snake Cables.

**Polyethylene Insulation • Chrome PVC Jacket**

UL AWM Style 2092 (300V 60°C)	<b>8641</b>	NEC: CM	1	Black, Clear	100	30.5	2.3	1.0	.016	.41	.025	.64	.168	4.27	22	72	42	138			
					U-500	U-152.4	7.5	3.4													
					500	152.4	7.0	3.2													
					U-1000	U-304.8	14.0	6.4													
		CM			1000	304.8	14.0	6.4													
					2000	609.6	28.0	12.7													



For Plenum versions of 8641, see 88641 or 82641.

**Plenum • FEP Insulation • Red FEP Jacket**

300V RMS, Non-conduit	<b>88641</b>	NEC: CMP	1	Black, Red	100	30.5	2.4	1.1	.006	.15	.014	.36	.106	2.69	31	102	59	194	
					500†	152.4	6.0	2.7											
					1000†	304.8	9.0	4.1											



CMP FT6

**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

300V RMS, Non-conduit	<b>82641</b>	NEC: CMP	1	Black, Red	U-1000†	U-304.8	9.0	4.1	.006	.15	.014	.36	.106	2.69	31	102	59	194
					1000†	304.8	8.0	3.6										



CMP FT6

TC = Tinned Copper

\* Capacitance between conductors.

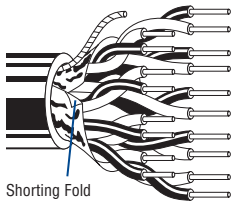
\*\* Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.


▲ Beldfoil provides high reliability with ease of termination.

# Overall Beldfoil® Shield

## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance				
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m	
<b>22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire</b>																			
<b>PVC Insulation • Chrome PVC Jacket</b>																			
 <p>Shorting Fold</p>	9302	UL AWM Style 2464 (300V 80°C)	NEC: 2	See	U-500	U-152.4	15.5	7.0	.013	.33	.032	.81	.244	6.20	35	115	50	164	
		CMG	Chart 3	500	152.4	15.0	6.8												
		CEC: CMG FT4	(Tech Info Section)	1000	304.8	29.0	13.2												
	9305	NEC: 4	See	100	30.5	4.9	2.2	.013	.33	.032	.81	.265	6.73	35	115	50	164		
		CMG	Chart 3	U-500	U-152.4	22.0	10.0												
		CEC: CMG FT4	(Tech Info Section)	500	152.4	22.5	10.2												
	9306	NEC: 6	See	500	152.4	31.5	14.3	.013	.33	.032	.81	.315	8.00	35	115	50	164		
		CMG	Chart 3	1000	304.8	62.0	28.2												
		CEC: CMG FT4	(Tech Info Section)																
	9309	NEC: 9	See	500	152.4	44.5	20.2	.013	.33	.033	.84	.363	9.22	35	115	50	164		
CMG		Chart 3	1000	304.8	86.0	39.1													
CEC: CMG FT4		(Tech Info Section)																	
9315	NEC: 15	See	500	152.4	67.0	30.5	.013	.33	.037	.94	.449	11.41	35	115	50	164			
	CMG	Chart 3	1000	304.8	133.0	60.5													
	CEC: CMG FT4	(Tech Info Section)																	
9319	NEC: 19	See	500	152.4	85.0	38.6	.013	.33	.040	1.02	.495	12.57	35	115	50	164			
	CMG	Chart 3	1000	304.8	165.0	75.0													
	CEC: CMG FT4	(Tech Info Section)																	
9327	NEC: 27	See	500	152.4	116.0	52.7	.013	.33	.045	1.14	.615	15.62	35	115	50	164			
	CMG	Chart 3	1000	304.8	230.0	104.5													
	CEC: CMG FT4	(Tech Info Section)																	
300V RMS, 60°C	8751	NEC: 51	Request	1000†	304.8	384.0	174.5	.010	.25	.050	1.27	.710	18.03	30	98	42.8	140		
		CMG	Technical																
		CEC: CMG FT4	Bulletin																

For 38-pair polypropylene version of 8751, see 8752.

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
<b>22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Duofoil® Shield (100% Coverage) • 22 AWG Stranded Tinned Copper Drain Wire</b>																		
<b>Datalene® Insulation • Black PVC Jacket</b>																		
	9184	UL AWM Style 2668 (300V 60°C)	NEC: 2	Black & Yellow,	500	152.4	29.0	13.2	16.5Ω/M'	8.0Ω/M'	.385	9.78	150	78%	8.7	28.5	14.1	46.3
		CM		1000	304.8	59.0	26.8	54.13Ω/km	26.2Ω/km									
		CEC: CM	Red & Blue															

DCR = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary -0 to +20% from length shown.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.10.




# Overall Beldfoil® Shield

## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 22 AWG Solid TC Drain Wire\***


**Polypropylene Insulation • Gray or Black PVC Jacket**

 <p>300V RMS 75°C</p>	<b>8450</b>	NEC:	1	Black, Red	U-500 <sup>†</sup>	U-152.4	7.5	3.4	.007	.18	.018	.46	.118	3.00	40	131	76	249			
		CMG			U-1000 <sup>†</sup>	U-304.8	14.0	6.4													
		CEC:			1000	304.8	13.0	5.9													
		CM																			

Z-Fold®

<sup>†</sup>U-500 ft. and U-1000 ft. put-ups available in Black only.  
Belden's Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables.


**Polypropylene Insulation • Chrome PVC Jacket**

 <p>200V RMS 80°C</p>	<b>8752</b>		38	Request Tech Bulletin T/8-4	250 <sup>†</sup>	76.2	65.0	29.5	.008	.20	.045	1.14	.610	15.50	17	56	24.3	80				
					1000 <sup>†</sup>	304.8	256.0	116.4														

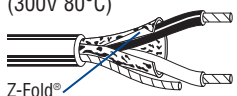
\*8752 has a stranded tinned copper drain wire.

**22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire**

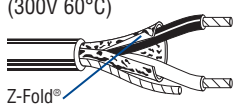
**Semi-rigid PVC Insulation • Pale Fawn Beige Striated PVC Jacket**

 <p>UL AWM Style 2464 (300V 80°C)</p>	<b>9414</b>	NEC:	1	White, Black	U-500	U-152.4	12.0	5.5	.010	.25	.035	.89	.186	4.72	50	164	95	312			
		CMG			500	152.4	11.5	5.2													
		CEC:			U-1000	U-304.8	23.0	10.5													
		CMG FT4			1000	304.8	23.0	10.5													

**PVC Insulation • Chrome PVC Jacket**

 <p>UL AWM Style 2464 (300V 80°C)</p>	<b>9462</b>	NEC:	1	Black, Red	100	30.5	3.0	1.4	.013	.33	.035	.89	.186	4.72	50	164	90	295			
		CMG			U-500	U-152.4	11.0	5.0													
		CEC:			500	152.4	10.5	4.8													
		CMG FT4			U-1000	U-304.8	21.0	9.5													
					1000	304.8	21.0	9.5													

**Polyethylene Insulation • Chrome PVC Jacket**

 <p>UL AWM Style 2092 (300V 60°C)</p>	<b>8761</b>	NEC:	1	Black, Clear	U-500	U-152.4	9.0	4.1	.016	.41	.025	.64	.175	4.45	24	79	47	154				
		CM			500	152.4	9.0	4.1														
		CEC:			U-1000	U-304.8	17.0	7.7														
		CM			1000	304.8	18.0	8.2														
									2000	609.6	36.0	16.3										
									5000	1524.0	90.0	40.9										
					10000 <sup>††</sup>	3048.0	170.0	77.3														

For Plenum versions of 8761, see 88761, 87761 or 82761.

 <p>UL AWM Style 2092 (300V 60°C)</p>	<b>9461</b>	NEC:	1	Black, Clear	U-500	U-152.4	11.0	5.0	.016	.41	.026	.66	.180	4.57	24	79	47	154
		CMG			U-1000	U-304.8	21.0	9.6										

CEC:  
CM

The jacket and shield are bonded so both can be removed on automatic stripping equipment.

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

<sup>†</sup>Spools are one piece, but length may vary -0 to +20% from length shown.


<sup>††</sup>Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 1500 ft.

# Overall Beldfoil® Shield


## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m


**22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire (continued)**

<b>Polypropylene Insulation • Paper Wrap • Gray or Black PVC Jacket</b>																						
 <p>300V RMS 75°C</p> <p>Z-Fold®</p>	<b>8451</b>	NEC:	1	Black, Red	100*	30.5	2.3	1.1	.008	.20	.020	.51	.138	3.51	34	112	67	220				
		CMR			U-500	U-152.4	8.5	3.8														
		CEC:			500	152.4	8.0	3.6														
		CMG			U-1000	U-304.8	16.0	7.3														
					1000	304.8	16.0	7.3														


\*100 ft. put-up available in Black only.  
Unique paper separator facilitates jacket stripping.

<b>Polypropylene Insulation • PVC Jacket (Available in Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Purple or White)</b>																						
 <p>300V RMS 75°C</p>	<b>9451</b>	NEC:	1	Black, Red	U-500 <sup>▲</sup>	U-152.4	8.5	3.9	.008	.20	.020	.51	.135	3.43	35	115	67	220				
		CMR			500 <sup>▲</sup>	152.4	8.0	3.6														
		CEC:			T-1000 <sup>▲</sup>	T-304.8	18.0	8.2														
		CMG FT4			U-1000	U-304.8	15.0	6.8														
					5000	1524.0	75.0	34.0														


<sup>▲</sup>U-500 ft., 500 ft. and T-1000 ft. put-ups available in Gray only.  
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

<b>Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket</b>																						
 <p>300V RMS 105°C</p>	<b>9451SB</b> <small>new</small>	NEC:	1	Black, Red	1000	304.8	20.0	9.1	.008	.20	.032	.81	.160	4.06	35	115	67	220				
		CMG-LS																				
		CEC:			CMG-LS FT4																	
		CMG-LS FT4 Limited Smoke																				

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.


<b>Polyolefin Insulation • PVC Jacket in Zip-Cord Construction (Red &amp; Green, Red &amp; Black, Red &amp; Purple or Red &amp; Gray)</b>																						
 <p>300V 105°C</p>	<b>9451D</b>	NEC:	2	Black, Red	U-1000	U-304.8	29.0	13.2	.008	.20	.020	.51	.135	3.43	34	112	67	220				
		CMR			2000*	620.8	62.0	28.1								x	x					
		CEC:															.270	6.86				
		CMR FT4																				

\*2000 ft. put-up available in Red & Green only.  
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.


<b>Plenum • FEP Insulation • White Flamarrest® Jacket in Zip-Cord Construction</b>																						
 <p>300V RMS 60°C</p>	<b>9451DP</b> <small>new</small>	NEC:	2	Black & Red, Black & White	1000	304.8	24.0	10.9	.007	.18	.017	.43	.127	3.23	35	115	67	220				
		CMP														x	x					
		CEC:			CMP FT6												.269	6.83				
		CMP FT6																				

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

**22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire**

<b>Polypropylene Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)</b>																						
 <p>300V RMS</p>	<b>1266A</b>	NEC:	1	Black, Red	U-1000	U-304.8	15.0	6.8	.010	.25	.020	.51	.143	3.63	30	99	54	177				
		CM			1000†	304.8	15.0	6.8														
		CEC:																				
		CM																				

†1000 ft. put-up available in Black only.  
Unique design features lower capacitance and greater flexibility than standard audio pair constructions.

<b>PVC Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)</b>																						
 <p>300V 90°C</p>	<b>1503A</b>	NEC:	1	Black, Red	U-1000	U-304.8	16.0	7.3	.010	.25	.020	.51	.142	3.61	53	174	97	318				
		CM																				
		CEC:																				
		CM																				

TC = Tinned Copper

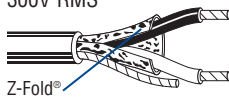
\*Capacitance between conductors.  
\*\*Capacitance between one conductor and other conductors connected to shield.


# Overall Beldfoil® Shield

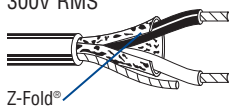
Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire**

<b>Plenum • FEP Insulation • Red FEP Jacket</b>																					
 <p>Z-Fold®</p>	300V RMS	<b>88761</b>	NEC:	1	Black, Red	100†	30.5	2.7	1.2	.006	.15	.014	.36	.119	3.02	35	115	67	220		
	CMP		U-500†			U-152.4	7.5	3.4													
	CEC:		500†			152.4	7.5	3.4													
	CMP FT6		U-1000†			U-304.8	15.0	6.8													
			1000†			304.8	12.0	5.4													


<b>Plenum • FEP Insulation • Red Fluorocopolymer Jacket</b>																					
 <p>Z-Fold®</p>	300V RMS	<b>87761</b>	NEC:	1	Black, Red	500†	152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220		
	CMP		1000†			304.8	11.0	5.0													
	CEC:																				
	CMP FT6																				

<b>Plenum • FEP Insulation • Natural Flamarrest® Jacket</b>																					
 <p>Z-Fold®</p>	300V RMS	<b>82761</b>	NEC:	1	Black, Red	U-500†	U-152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220		
	CMP		U-1000†			U-304.8	14.0	6.4													
	CEC:		1000†			304.8	11.0	5.0													
	CMP FT6																				

<b>Plenum • FEP Insulation • Flamarrest Jacket (Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Purple or White)</b>																					
	300V RMS 60°C	<b>9451P</b> <small>new</small>	NEC:	1	Black, Red	U-1000	U-304.8	15.0	6.8	.007	.18	.017	.43	.127	3.23	35	115	67	220		
	CMP		5000			1524.0	75.0	34.0													
	CEC:																				
	CMP FT6																				

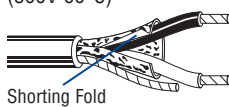
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.


**22 AWG Stranded (19x34) TC Conductors • Dual Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire**

<b>PVC Insulation • PVC Jacket in Zip-Cord Construction (Red &amp; Green, Red &amp; Black, Red &amp; Purple or Red &amp; Gray)</b>																					
	Stereo Audio 150V RMS	<b>1504A</b>	NEC:	2	Black, Red	U-1000	U-304.8	32.0	14.5	.010	.25	.020	.51	.143	3.63	57	187	100	328		
	CM		2000††			609.8	64.0	29.0					x	x							
	CEC:																.286	7.26			
	CM																				

††2000 ft. put-up available in Red & Gray or Red & Green only.  
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

**20 AWG Stranded (7x28) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire**

<b>Polyethylene Insulation • Chrome PVC Jacket</b>																						
 <p>Shorting Fold</p>	UL AWM Style 2092 (300V 60°C)	<b>8762</b>	NEC:	1	Black, Clear	100	30.5	3.2	1.5	.016	.41	.028	.71	.204	5.18	27	89	49	161			
	CM		250			76.2	6.3	2.8														
	CEC:		U-500			U-152.4	12.0	5.5														
	CM		500			152.4	12.0	5.5														
			U-1000			U-304.8	23.0	10.5														
			1000			304.8	23.0	10.5														
			2000			609.6	46.0	20.9														
	10000	3048.0	240.0	109.1																		

	UL AWM Style 2092 (300V 60°C)	<b>9464</b>	NEC:	1	Black, Clear	U-500	U-152.4	17.0	7.7	.016	.41	.035	.89	.214	5.44	27	89	49	161	
	CM		U-1000			U-304.8	32.0	14.5												
	CEC:																			
	CM																			

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



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


# Overall Beldfoil® Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**20 AWG** Stranded (7x28) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire (cont.)

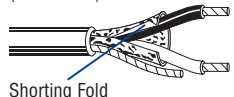
**PVC Insulation • Beige PVC Jacket**

 <p>Z-Fold®</p>	<b>9154</b> UL AWM Style 2464 (300V 80°C)	NEC:	1	Black, Red	U-500	U-152.4	11.5	5.2	.014	.36	.031	.79	.198	5.03	60	197	100	328			
		CMG			500	152.4	12.0	5.5													
		CEC:			U-1000	U-304.8	22.0	10.0													
		CMG FT4			1000	304.8	23.0	10.5													


9154 has 22 AWG stranded tinned copper drain wire.

**18 AWG** Stranded (16x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

**Polyethylene Insulation • Chrome PVC Jacket**

 <p>Shorting Fold</p>	<b>8760</b> UL AWM Style 2092 (300V 60°C)	NEC:	1	Black, Clear	250	76.2	6.8	3.1	.019	.48	.028	.71	.222	5.64	24	79	44	144			
		CM			U-500	U-152.4	13.5	6.1													
		CEC:			500	152.4	13.0	5.9													
		CM			U-1000	U-304.8	25.0	11.3													
					1000	304.8	26.0	11.8													
					2000	609.6	50.0	22.7													

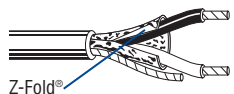
For Plenum versions of 8760, see 88760, 87760 or 82760.

	<b>9460</b>	NEC:	1	Black, Clear	U-500	U-152.4	18.5	8.4	.019	.48	.030	.76	.230	5.84	24	79	44	144
		CM			U-1000	U-304.8	36.0	16.4										


The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.

**18 AWG** Stranded (19x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire


**Plenum • FEP Insulation • Red FEP Jacket**

 <p>Z-Fold®</p>	<b>88760</b> 300V RMS	NEC:	1	Black, Red	100	30.5	3.7	1.7	.007	.18	.014	.36	.150	3.81	51	167	97	318			
		CMP			U-500	U-152.4	12.5	5.7													
		CEC:			500†	152.4	11.0	5.0													
		CMP FT6			U-1000	U-304.8	24.0	10.9													

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket**

 <p>Z-Fold®</p>	<b>87760</b> 300V RMS	NEC:	1	Black, Red	U-500	U-152.4	12.5	5.7	.007	.18	.014	.36	.150	3.81	51	167	97	318		
		CMP			500†	152.4	10.5	4.8												
		CEC:			1000†	304.8	21.0	9.5												

**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

 <p>Z-Fold®</p>	<b>82760</b> 300V RMS	NEC:	1	Black, Red	U-500†	U-152.4	12.0	5.4	.007	.18	.014	.36	.150	3.81	51	167	97	318	
		CMP			U-1000†	U-304.8	22.0	10.0											
		CEC:			1000†	304.8	21.0	9.5											

TC = Tinned Copper

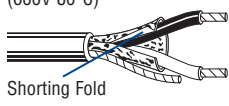
\*Capacitance between conductors.

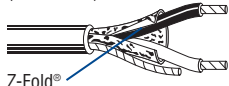
\*\*Capacitance between one conductor and other conductors connected to shield.

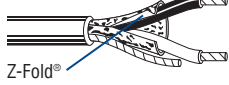
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

# Overall Beldfoil® Shield

## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance							
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m				
<b>16 AWG</b> Stranded (19x29) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 18 AWG Stranded TC Drain Wire																						
<b>Polyethylene Insulation • Chrome PVC Jacket</b>																						
UL AWM Style 20253 (600V 80°C)  Shorting Fold	<b>8719</b>	NEC: CM, CL2 CEC: CM	1	Black, Clear	U-500	U-152.4	24.0	11.1	.032	.81	.032	.81	.313	7.95	23	75	44	144				
					500	152.4	25.5	11.6														
					U-1000	U-304.8	47.0	21.3														
					1000	304.8	50.0	22.7														
					2000	609.6	100.0	45.5														
					5000	1524.0	245.0	111.4														
	10000	3048.0	510.0	231.3																		

<b>14 AWG</b> Stranded (19x27) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 16 AWG Stranded TC Drain Wire																						
<b>Polyethylene Insulation • Chrome PVC Jacket</b>																						
UL AWM Style 20253 (600V 80°C)  Z-Fold®	<b>8720</b>	NEC: CM, CL2	1	Black, Clear	U-500	U-152.4	34.0	15.4	.032	.81	.035	.89	.355	9.02	24	79	47	154				
					500	152.4	35.0	15.9														
					1000	304.8	71.0	32.3														
					2000	609.6	138.0	62.7														

<b>12 AWG</b> Stranded (19x25) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 14 AWG Stranded TC Drain Wire																						
<b>Polyethylene Insulation • Chrome PVC Jacket</b>																						
UL AWM Style 20253 (600V 80°C)  Z-Fold®	<b>8718</b>	NEC: CL2	1	Black, Clear	U-500	U-152.4	47.5	21.6	.037	.94	.040	1.02	.400	10.16	25	82	49	161				
					500	152.4	50.5	22.9														
					1000	304.8	100.0	45.5														
					2000	609.6	198.0	90.0														

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.


# Combination Unshielded and Braid Shield and Overall Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

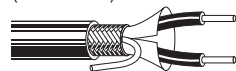
**Combination • 22 AWG** Stranded (7x30) TC Conductors • Conductors Cabled • TC Braid Shield Over One Pair (62% Coverage)

**Polyethylene Insulation • Chrome PVC Jacket**

	UL AWM Style 2094 (300V 60°C)	<b>8732</b>	NEC: 2: Black, CM (1) Shld CEC: (1) Unshld CM	Color Code: Clear	500	152.4	17.5	7.9	.020	.51	.030	.76	.206	5.23	21	69	37	121
					U-1000	U-304.8	37.0	16.8						x	x			
					1000	304.8	39.0	17.7						.332	8.43			

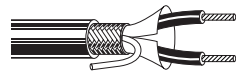
**Overall Braid • 22 AWG** Solid TC Conductors • Twisted Pair • Polyester Tape + TC Braid Shield (88% Coverage) • 22 AWG Solid TC Drain Wire

**PVC Insulation • Black PVC Jacket**

	UL AWM Style 2095 (300V 80°C)	<b>8437</b>	NEC: 1 Black, CMG Red CEC: CMG FT4	Color Code: Red	1000	304.8	25.0	11.4	.015	.38	.025	.64	.200	5.08	48	157	85	279


**Overall Braid • 22 AWG** Stranded (7x30) TC Conductors • Twisted Pair • Polyester Tape + TC Braid Shield (86% Coverage) • Stranded TC Drain Wire

**PVC Insulation • Black PVC Jacket**

	UL AWM Style 2095 (300V 80°C)	<b>8441</b>	NEC: 1 Black, CMG Red CEC: CMG FT4	Color Code: Red	100	30.5	3.6	1.6	.015	.38	.025	.64	.210	5.33	49	161	86	282
					U-500	U-152.4	14.0	6.4										
					500	152.4	14.0	6.4										
					U-1000	U-304.8	27.0	12.3										

**Overall Braid • 18 AWG** Stranded (16x30) Tinned Copper Conductors • Twisted Pair • Separator + TC Braid Shield (73% Coverage)

**Rubber Insulation • Chrome PVC Jacket**

	300V RMS 80°C	<b>8208</b>	NEC: 1 Red, White CEC: CMG FT4	Color Code: Red, White	100	30.5	4.7	2.1	.022	.56	.025	.64	.257	6.53	46	151	77	253
					U-500	U-152.4	21.5	9.8										
					500	152.4	20.0	9.1										
					U-1000	U-304.8	42.0	19.1										

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.


# Overall Spiral Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m


**Overall Spiral • 22 AWG** Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)

**PVC Insulation • Chrome PVC Jacket**

	UL AWM Style 2095 (300V 80°C)	<b>8737</b>	NEC:	1	Black,	U-500	U-152.4	10.5	4.8	.015	.38	.025	.64	.180	4.57	40	131	70	230
			CMG:		Red	500	152.4	10.0	4.5										
			CEC:			U-1000	U-304.8	20.0	9.1										
			CMG FT4			1000	304.8	20.0	9.1										


**Overall Spiral • 20 AWG** Stranded (7x28) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (89% Coverage)

**PVC Insulation • Chrome PVC Jacket**

	UL AWM Style 2095 (300V 80°C)	<b>8759</b>	NEC:	1	Black,	U-500	U-152.4	12.5	5.7	.016	.41	.025	.64	.199	5.05	47	154	79	259
			CMG:		Red	U-1000	U-304.8	24.0	10.9										
			CEC:			1000	304.8	25.0	11.4										
			CMG FT4																


**Overall Spiral • 18 AWG** Stranded (7x26) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)

**PVC Insulation • Chrome PVC Jacket**

	300V RMS 60°C	<b>8790</b>	NEC:	1	Red,	U-500	U-152.4	17.5	7.9	.022	.56	.028	.71	.241	6.12	53	174	92	302
			CMG:		White	500	152.4	17.0	7.7										
			CEC:			U-1000	U-304.8	33.0	15.0										
			CMG FT4			1000	304.8	35.0	15.9										

**Overall Spiral • 16 AWG** Stranded (19x29) Tinned Copper Conductors • Twisted Pair • Tinned Copper Spiral Wrapped Shield (85% Coverage)

**PVC Insulation • Chrome PVC Jacket**

	300V RMS 60°C	<b>8780</b>	NEC:	1	Black,	500	152.4	23.5	10.7	.023	.58	.030	.76	.280	7.11	57	187	98	322
			CMG:		White	U-1000	U-304.8	44.0	20.0										
			CEC:			1000	304.8	46.0	20.9										
			CMG FT4																

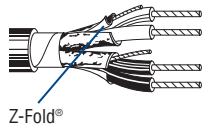
\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.



# Individually Shielded

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance					
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m		
<b>24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire</b>																				
<b>Datalene® Insulation • Chrome PVC Jacket</b>																				
 <p>Z-Fold®</p>	<b>9729</b>	NEC:	2	See Chart 3	100	30.5	4.3	2.0	24.0Ω/M'	15.0Ω/M'	.266	6.76	100	76%	12.5	41.0	23.2	76.1		
		CM			500	152.4	20.5	9.3	78.7Ω/km	49.2Ω/km	For Plenum version of 9729, see 89729 or 82729.									
		CEC:			(Tech Info	1000	304.8	39.0	17.7											
		CM			Section)	10000†	3048.0	390.0	177.8											
	<b>9730</b>	NEC:	3	See Chart 3	100	30.5	5.1	2.3	24.0Ω/M'	15.0Ω/M'	.334	8.48	100	76%	12.5	41.0	23.2	76.1		
		CM			500	152.4	24.5	11.1	78.7Ω/km	49.2Ω/km	For Plenum version of 9730, see 89730.									
		CEC:			(Tech Info	1000	304.8	46.0	20.9											
		CM			Section)	10000†	3048.0	520.0	236.4											
	<b>9728</b>	NEC:	4	See Chart 3	100	30.5	6.0	2.7	24.0Ω/M'	15.0Ω/M'	.363	9.22	100	76%	12.5	41.0	23.2	76.1		
		CM			500	152.4	29.0	13.2	78.7Ω/km	49.2Ω/km	For Plenum version of 9728, see 89728.									
CEC:		(Tech Info			1000	304.8	51.0	23.1												
CM		Section)																		
<b>9731</b>	NEC:	6	See Chart 3	100	30.5	7.4	3.4	24.0Ω/M'	15.0Ω/M'	.421	10.69	100	76%	12.5	41.0	23.2	76.1			
	CM			500	152.4	42.0	19.1	78.7Ω/km	49.2Ω/km	For Plenum version of 9731, see 89731.										
	CEC:			(Tech Info	1000	304.8	83.0	37.7												
	CM			Section)																
<b>9732</b>	NEC:	9	See Chart 3	100	30.5	9.9	4.5	24.0Ω/M'	15.0Ω/M'	.488	12.40	100	76%	12.5	41.0	23.2	76.1			
	CM			500	152.4	57.0	26.0	78.7Ω/km	49.2Ω/km	For Plenum version of 9732, see 89732.										
	CEC:			(Tech Info	1000	304.8	106.0	48.1												
	CM			Section)																
<b>9733</b>	NEC:	11	See Chart 3	500	152.4	75.0	34.1	24.0Ω/M'	15.0Ω/M'	.575	14.61	100	76%	12.5	41.0	23.2	76.1			
	CM			1000	304.8	154.0	70.0	78.7Ω/km	49.2Ω/km											
	CEC:			(Tech Info																
	CM			Section)																
<b>9734</b>	NEC:	12	See Chart 3	500	152.4	79.5	36.1	24.0Ω/M'	15.0Ω/M'	.575	14.61	100	76%	12.5	41.0	23.2	76.1			
	CM			1000	304.8	154.0	70.0	78.7Ω/km	49.2Ω/km											
	CEC:			(Tech Info																
	CM			Section)																
<b>9735</b>	NEC:	15	See Chart 3	500	152.4	95.0	43.2	24.0Ω/M'	15.0Ω/M'	.639	16.23	100	76%	12.5	41.0	23.2	76.1			
	CM			1000	304.8	185.0	84.1	78.7Ω/km	49.2Ω/km											
	CEC:			(Tech Info																
	CM			Section)																
<b>9736</b>	NEC:	17	See Chart 3	500	152.4	103.5	47.0	24.0Ω/M'	15.0Ω/M'	.671	17.04	100	76%	12.5	41.0	23.2	76.1			
	CM			1000	304.8	210.0	95.5	78.7Ω/km	49.2Ω/km											
	CEC:			(Tech Info																
	CM			Section)																
<b>9737</b>	NEC:	19	See Chart 3	1000	304.8	231.0	105.0	24.0Ω/M'	15.0Ω/M'	.671	17.04	100	76%	12.5	41.0	23.2	76.1			
	CM							78.7Ω/km	49.2Ω/km											
	CEC:			(Tech Info																
	CM			Section)																
<b>9738</b>	NEC:	27	See Chart 3	1000	304.8	334.0	151.8	24.0Ω/M'	15.0Ω/M'	.797	20.24	100	76%	12.5	41.0	23.2	76.1			
	CM							78.7Ω/km	49.2Ω/km											
	CEC:			(Tech Info																
	CM			Section)																

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.

See Attenuation, Rise Time and Bit Rate Data for this series on page 5.34.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.



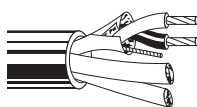
## Individually Shielded

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


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire**

**Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket**

	300V RMS	<b>89729</b>	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	17.0 31.0	7.7 14.1	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.261 6.63	100	76%	13.5	44	22.5	73.8
		<b>89730</b>	NEC: CMP CEC: CMP FT6	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	21.5 40.0	9.8 18.2	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.278 7.06	100	76%	13.5	44	22.5	73.8
		<b>89728</b>	NEC: CMP CEC: CMP FT6	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	26.5 50.0	12.0 22.7	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.307 7.80	100	76%	13.5	44	22.5	73.8
		<b>89731</b>	NEC: CMP CEC: CMP FT6	6	See Chart 5 (Tech Info Section)	500 1000 <sup>†</sup>	152.4 304.8	35.0 71.0	15.9 32.3	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.361 9.17	100	76%	13.5	44	22.5	73.8
		<b>89732</b>	NEC: CMP CEC: CMP FT6	9	See Chart 5 (Tech Info Section)	1000	304.8	108.0	49.0	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.429 10.90	100	76%	13.5	44	22.5	73.8

**Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket**

	300V RMS	<b>82729</b>	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	U-1000 1000	U-304.8 304.8	26.0 28.0	11.8 12.7	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.255 6.48	100	76%	13.5	44	22.5	73.8
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DCR = DC Resistance • TC = Tinned Copper

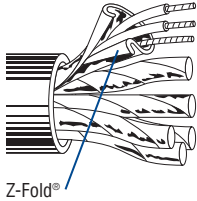
\*Capacitance between conductors.

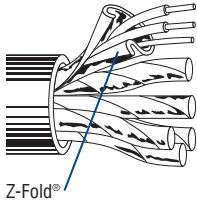
\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary ±10% from length shown.

# Individually Shielded

## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
<b>24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire</b>																		
<b>Polyethylene Insulation • Chrome PVC Jacket</b>																		
 <p>Z-Fold®</p>	9990	NEC:	3	See Chart 3 (Tech Info Section)	500	152.4	16.0	7.3	24.0Ω/M'	18.0Ω/M'	.255	6.48	60	66%	25	82	47	154
		CM			1000	304.8	36.0	16.4	78.7Ω/km	59.1Ω/km								
		CEC:																
		CM																
	9991	NEC:	6	See Chart 3 (Tech Info Section)	100	30.5	6.7	3.1	24.0Ω/M'	18.0Ω/M'	.330	8.38	60	66%	25	82	47	154
CM	500	152.4			32.5	14.7	78.7Ω/km	59.1Ω/km										
CEC:	1000	304.8			62.0	28.3												
CM																		
	9992	NEC:	9	See Chart 3 (Tech Info Section)	100	30.5	8.8	4.0	24.0Ω/M'	18.0Ω/M'	.383	9.73	60	66%	25	82	47	154
CM	500	152.4			42.5	19.3	78.7Ω/km	59.1Ω/km										
CEC:	1000	304.8			86.0	39.1												
CM																		
	9993	NEC:	12	See Chart 3 (Tech Info Section)	100	30.5	9.8	4.5	24.0Ω/M'	18.0Ω/M'	.428	10.87	60	66%	25	82	47	154
CM	500	152.4			107.0	48.6	78.7Ω/km	59.1Ω/km										
CEC:	1000	304.8			228.0	103.6												
CM																		
	9995	NEC:	25	See Chart 3 (Tech Info Section)	100	30.5	21.2	9.7	24.0Ω/M'	18.0Ω/M'	.636	16.15	60	66%	25	82	47	154
CM	500	152.4			116.0	52.7	78.7Ω/km	59.1Ω/km										
CEC:	1000	304.8			228.0	103.6												
CM																		

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance						
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m			
<b>22 AWG Solid Conductors • TC • Twisted Pairs • Individually Shielded w/ Beldfoil (100% Coverage) • 22 AWG Solid TC Drain Wire</b>																					
<b>PVC Insulation • Overall Chrome PVC Jacket</b>																					
 <p>Z-Fold®</p>	8767	NEC:	3	See Chart 3 (Tech Info Section)	U-500	U-152.4	22.5	10.3	.013	.33	.037	.94	.279	7.10	40	131	77	253			
		MPG, CMG			500	152.4	23.0	10.5													
		CEC: MPG, CMG FT4			1000	304.8	46.0	21.0													
	8768	NEC:	6	See Chart 3 (Tech Info Section)	500	152.4	46.5	21.1	.013	.33	.037	.94	.379	9.60	40	131	77	253			
MPG, CMG	500	152.4			92.0	41.8															
CEC: MPG, CMG FT4	1000	304.8			122.0	55.5															
	8764	NEC	9	See Chart 3 (Tech Info Section)	1000	304.8	122.0	55.5	.013	.33	.040	1.02	.425	10.80	40	131	77	253			
MPG, CMG	1000	304.8			149.0	67.7															
CEC: MPG, CMG FT4	1000	304.8			196.0	89.1															
	8765	NEC	11	See Chart 3 (Tech Info Section)	500	152.4	76.5	34.8	.013	.33	.040	1.02	.470	11.90	40	131	77	253			
MPG, CMG	500	152.4			149.0	67.7															
CEC: MPG, CMG FT4	1000	304.8			196.0	89.1															
	8766	NEC:	15	See Chart 3 (Tech Info Section)	500	152.4	101.5	46.1	.013	.33	.045	1.14	.525	13.30	40	131	77	253			
MPG, CMG	500	152.4			196.0	89.1															
CEC: MPG, CMG FT4	1000	304.8			228.0	103.6															

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.


# Individually Shielded

## Audio, Control and Instrumentation Cables

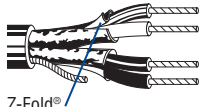
### Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire**  
**Semi-rigid PVC Insulation • Pale Fawn Beige PVC Jacket (Shielded Pairs Parallel under Jacket)**


 <p>Z-Fold®</p>	9406	NEC:	2	Black & White,	100	30.5	3.8	1.7	15.0Ω/M'	13.0Ω/M'	.173	4.39	50	60%	50	164	95	312
		CEC:			U-500	U-152.4	16.5	7.5	49.2Ω/km	42.7Ω/km	x	x						
		CMG FT4			500	152.4	17.0	7.7			.280	7.11						
					U-1000	U-304.8	32.0	14.5										
					1000	304.8	33.0	15.0										

**22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 24 AWG Stranded TC Drain Wire**  
**Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**


 <p>Z-Fold®</p>	8723	NEC:	2	Red & Black,	100	30.5	2.3	1.0	15.0Ω/M'	16.6Ω/M'	.160	4.06	45	66%	35	115	62	203
		CEC:			U-500	U-152.4	10.5	4.8	49.2Ω/km	54.5Ω/km								
		CM			500	152.4	10.0	4.5										
					U-1000	U-304.8	20.0	9.1										
					1000	304.8	20.0	9.1										
					1640	499.9	32.8	14.9										
					U-2000	U-609.6	38.0	17.2										
					2000	609.6	40.0	18.2										
					3280	999.7	65.6	29.8										
					5000	1524.0	95.0	43.2										
	10000	3048.0	200.0	90.9														

For Plenum versions of 8723, see 88723, 87723 or 82723.


**Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

 <p>Z-Fold®</p>	8723SB	NEC:	2	Red & Black,	1000	304.8	26.0	11.8	14.7Ω/M'	15.0Ω/M'	.196	4.98	45	66%	35	115	62	203
		CEC:			U-1000	U-304.8	20.0	9.1	48.2Ω/km	49.2Ω/km								
		CMG-LS Limited Smoke			500	152.4	10.0	4.5										
					U-1000	U-304.8	20.0	9.1										


**Plenum • FEP Insulation • Natural Flammarrest® Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

 <p>Z-Fold®</p>	82723	NEC:	2	Red & Black,	U-500†	U-152.4	10.5	4.8	14.7Ω/M'	16.6Ω/M'	.153	3.89	36	62%	43	141	75	246
		CEC:			U-1000	U-304.8	20.0	9.1	48.2Ω/km	54.5Ω/km								
		CMP FT6			1000†	304.8	19.0	8.6										
					U-2000†	U-609.6	40.0	18.1										

**Plenum • FEP Insulation • Red FEP Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

 <p>Z-Fold®</p>	88723	NEC:	2	Red & Black,	100†	30.5	3.4	1.5	16.0Ω/M'	14.7Ω/M'	.148	3.76	40	69%	35	115	67	220
		CEC:			500†	152.4	11.0	5.0	52.5Ω/km	48.2Ω/km								
		CMP FT6			1000†	304.8	19.0	8.6										
					1000†	304.8	19.0	8.6										

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

 <p>Z-Fold®</p>	87723	NEC:	2	Red & Black,	500†	152.4	11.0	5.0	14.7Ω/M'	15.0Ω/M'	.148	3.76	40	69%	35	115	67	220
		CEC:			1000†	304.8	20.0	9.1	48.2Ω/km	49.2Ω/km								
		CMP FT6			1000†	304.8	20.0	9.1										
					1000†	304.8	20.0	9.1										

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

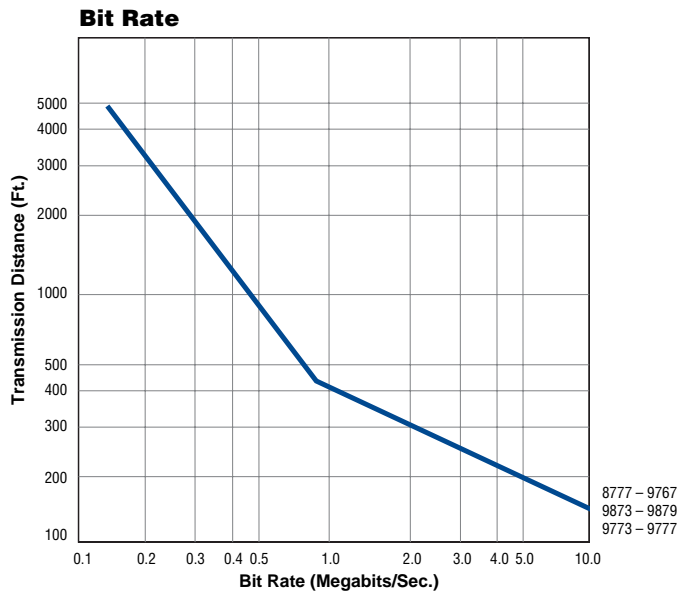
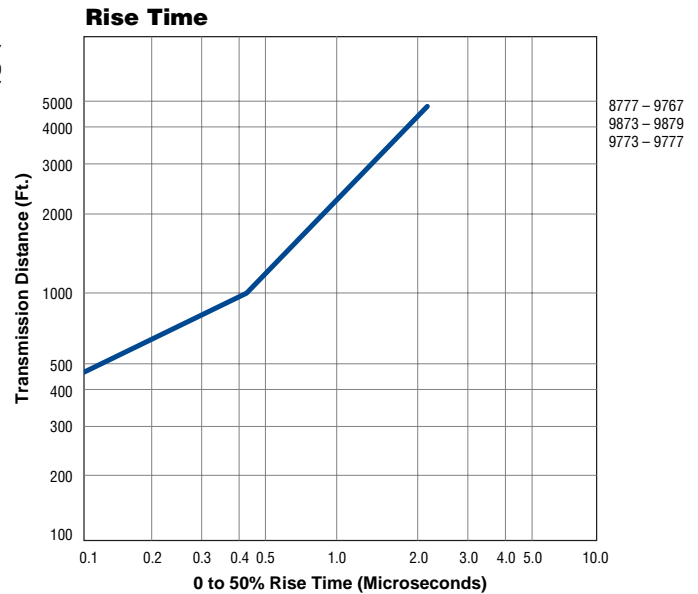
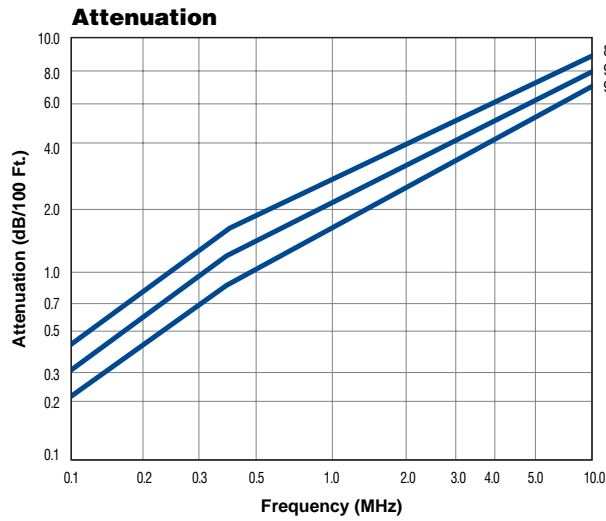
\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length show.

# Individually Shielded

## Cable Characteristics



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

**Insulation resistance between shields:**  
 100 megohms/M' nom.

**Capacitance between adjacent shields:**  
 115 pF/ft. nom.

**Working voltage between adjacent shields:**  
 50 volts max.

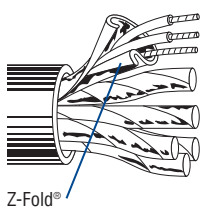
# Individually Shielded

## Audio, Control and Instrumentation Cables

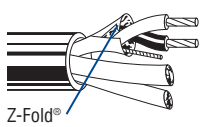
Description	Part No.	UL NEC/C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/Ft.	* pF/m	** pF/Ft.	** pF/m

**22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire**

**Polypropylene Insulation • Chrome PVC Jacket**

 <p>Z-Fold®</p>	UL AWM Style 2919 (30V 80°C)	<b>8777</b>	NEC: 3 CM CEC: CM	See Chart 3 (Tech Info Section)	100 250 500 U-1000 1000 1640 3280 5000 10000††	30.5 76.2 152.4 U-304.8 304.8 499.9 999.7 1524.0 3048.0	4.7 10.0 21.0 20.0 41.0 44.0 70.5 141.0 215.0 460.0	2.1 4.5 9.5 9.1 18.6 20.0 32.0 64.0 97.6 208.8	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.273 6.93	50	66%	30	98	55	180	
	For Plenum versions of 8777, see 88777, 87777 or 82777.																	
			<b>8778</b>	NEC: 6 CM CEC: CM	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	8.4 19.0 43.0 83.0	3.8 8.6 19.5 37.7	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.362 9.19	50	66%	30	98	55	180
	For Plenum versions of 8778, see 88778, 87778 or 82778.																	
			<b>8774</b>	NEC: 9 CM CEC: CM	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	11.5 29.5 57.5 113.0	5.2 13.4 26.1 51.3	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.417 10.59	50	66%	30	98	55	180
			<b>8775</b>	NEC: 11 CM CEC: CM	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.1 65.5 130.0	5.5 29.7 59.0	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.464 11.79	50	66%	30	98	55	180
			<b>9768</b>	NEC: 12 CM CEC: CM	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	13.2 36.5 73.5 143.0	6.0 16.5 33.4 65.0	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.464 11.79	50	66%	30	98	55	180
			<b>8776</b>	NEC: 15 CM CEC: CM	See Chart 3 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	17.8 49.5 98.0 197.0	8.1 22.5 44.5 89.5	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.548 13.92	50	66%	30	98	55	180
			<b>9769</b>	NEC: 17 CM CEC: CM	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	20.0 109.0 215.0	9.1 49.5 97.7	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.577 14.66	50	66%	30	98	55	180
			<b>8769</b>	NEC: 19 CM CEC: CM	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	22.9 123.0 244.0	10.4 55.8 110.8	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.603 15.32	50	66%	30	98	55	180
		<b>8773</b>	NEC: 27 CM CEC: CM	See Chart 3 (Tech Info Section)	100 250† 500 1000	30.5 76.2 152.4 304.8	33.9 83.8 163.0 341.0	15.4 38.0 74.0 154.8	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.709 18.00	50	66%	30	98	55	180	
		<b>9767</b>	NEC: 37 CM CEC: CM	See Chart 3 (Tech Info Section)	500† 1000†	152.4 304.8	224.0 481.0	101.8 218.6	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.800 20.32	50	66%	30	98	55	180	

**Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket**

 <p>Z-Fold®</p>	U300V RMS, Non-conduit	<b>8777SB</b>	NEC: 3 CMG-LS CEC: CMG-LS FT4 Limited Smoke	See Chart 3 (Tech Info Section)	U-500† U-1000 1000†	U-152.4 U-304.8 304.8	19.5 38.0 39.0	8.9 17.3 17.7	15.0Ω/M' 49.2Ω/km	10.6Ω/M' 34.8Ω/km	.273 6.93	50	66%	30	98	55	180
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DCR = DC Resistance • TC = Tinned Copper

See Attenuation, Rise Time and Bit Rate Data for this series on page 5.39.

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary -0 to +20% from length shown.

†† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.



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



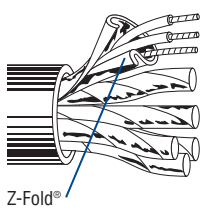
# Individually Shielded

## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

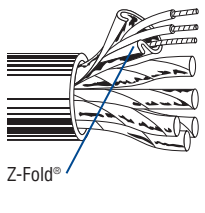
**20 AWG** Stranded (7x28) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire

**Polypropylene Insulation • Overall Chrome PVC Jacket**

 <p>Z-Fold®</p>	UL AWM Style 2919 (30V 80°C)	<b>9873</b>	NEC: CM CEC: CM	3 See (Tech Info Section)	See Chart 3	100 250 500 1000	30.5 76.2 152.4 304.8	6.6 14.5 32.5 58.0	3.0 6.6 14.8 26.3	10.5Ω/M' 14.0Ω/M' 34.4Ω/km 45.9Ω/km	14.0Ω/M' 34.4Ω/km 45.9Ω/km	.341 8.66	50	66%	30	98	55	180
		<b>9874</b>	NEC: CM CEC: CM	6 See (Tech Info Section)	See Chart 3	100 500 1000	30.5 76.2 152.4 304.8	10.3 29.0 56.5 113.0	4.7 13.2 25.7 51.3	10.5Ω/M' 34.4Ω/km 37.1Ω/km	11.3Ω/M' 37.1Ω/km	.445 11.30	50	66%	30	98	55	180
		<b>9875</b>	NEC: CM CEC: CM	9 See (Tech Info Section)	See Chart 3	100 500 1000	30.5 152.4 304.8	17.7 97.0 187.0	8.1 44.0 88.4	10.5Ω/M' 34.4Ω/km 37.1Ω/km	11.3Ω/M' 37.1Ω/km	.555 14.10	50	66%	30	98	55	180
		<b>9876</b>	NEC: CM CEC: CM	11 See (Tech Info Section)	See Chart 3	1000	304.8	220.0	100.0	10.5Ω/M' 34.4Ω/km	11.3Ω/M' 37.1Ω/km	.600 15.24	50	66%	30	98	55	180
		<b>9877</b>	NEC: CM CEC: CM	12 See (Tech Info Section)	See Chart 3	100 500 1000	30.5 152.4 304.8	22.1 119.0 237.0	10.1 54.1 107.7	10.5Ω/M' 34.4Ω/km 37.1Ω/km	11.3Ω/M' 37.1Ω/km	.617 15.67	50	66%	30	98	55	180
		<b>9879</b>	NEC: CM CEC: CM	15 See (Tech Info Section)	See Chart 3	500 1000	152.4 304.8	146.0 296.0	66.4 134.5	10.5Ω/M' 34.4Ω/km	11.3Ω/M' 37.1Ω/km	.689 17.50	50	66%	30	98	55	180

**18 AWG** Stranded (19x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 20 AWG Stranded TC Drain Wire

**Polypropylene Insulation • Chrome PVC Jacket**

 <p>Z-Fold®</p>	UL AWM Style 2919 (30V 80°C)	<b>9773</b>	NEC: CM CEC: CM	3 See (Tech Info Section)	See Chart 3	100 500 1000	30.5 152.4 304.8	10.8 52.5 107.0	4.9 23.8 48.6	6.4Ω/M' 21.0Ω/km	8.3Ω/M' 27.2Ω/km	.404 10.26	50	66%	30	98	55	180
		<b>9774</b>	NEC: CM CEC: CM	6 See (Tech Info Section)	See Chart 3	100 500 1000	30.5 152.4 304.8	16.1 89.5 176.0	7.3 40.9 80.8	6.4Ω/M' 21.0Ω/km	8.3Ω/M' 27.2Ω/km	.560 14.22	50	66%	30	98	55	180
		<b>9775</b>	NEC: CM CEC: CM	9 See (Tech Info Section)	See Chart 3	100 500 1000	30.5 152.4 304.8	25.8 123.0 241.0	11.7 55.8 109.4	6.4Ω/M' 21.0Ω/km	8.3Ω/M' 27.2Ω/km	.655 16.64	50	66%	30	98	55	180
		<b>9776</b>	NEC: CM CEC: CM	12 See (Tech Info Section)	See Chart 3	100 500 1000	30.5 152.4 304.8	31.6 151.5 307.0	14.4 69.0 139.4	6.4Ω/M' 21.0Ω/km	8.3Ω/M' 27.2Ω/km	.735 18.67	50	66%	30	98	55	180
		<b>9777</b>	NEC: CM CEC: CM	15 See (Tech Info Section)	See Chart 3	100 500 1000	30.5 152.4 304.8	38.8 194.0 421.0	17.6 88.1 191.1	6.4Ω/M' 21.0Ω/km	8.3Ω/M' 27.2Ω/km	.819 20.80	50	66%	30	98	55	180

DCR = DC Resistance • TC = Tinned Copper

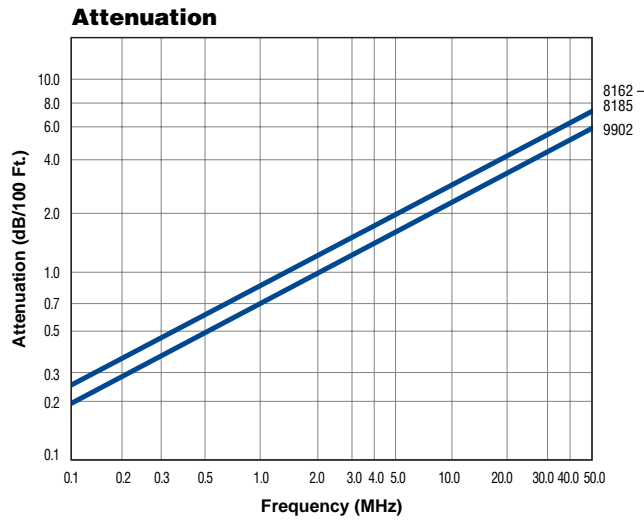
\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

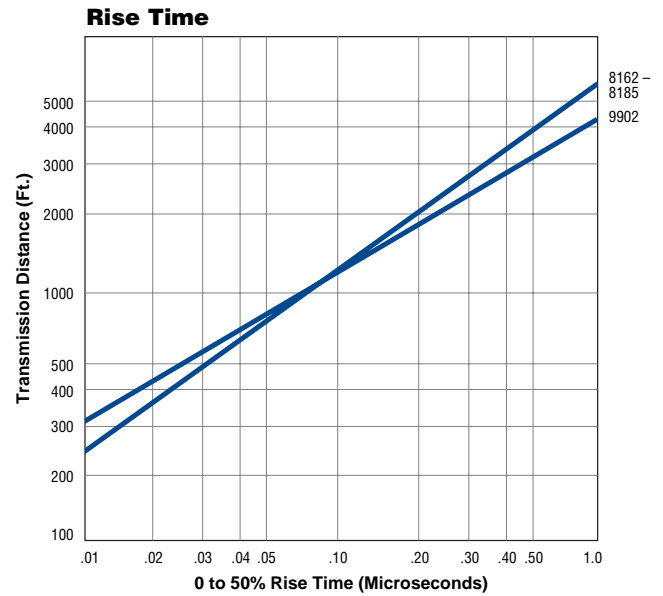
See Attenuation, Rise Time and Bit Rate data for this series on page 5.39.

# Individually Shielded Pairs with Overall Foil/Braid Shield

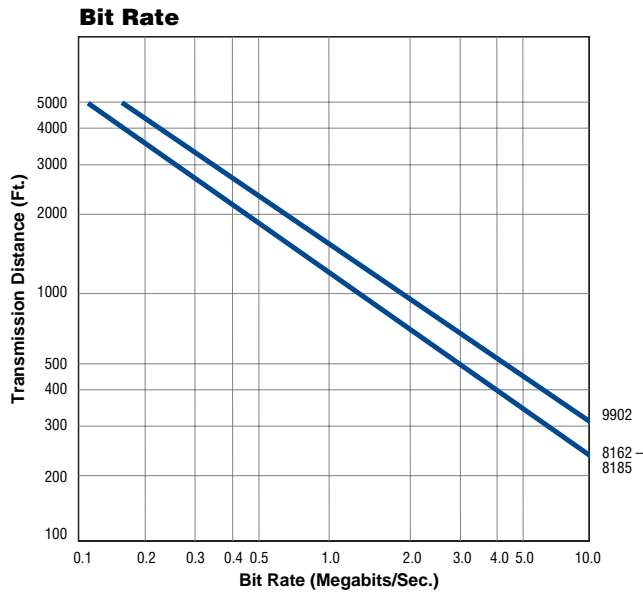
## Cable Characteristics



Note: see index for 9902 page number.



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

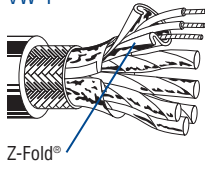


Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.



# Individually Shielded Pairs with Overall Foil/Braid Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
<b>24 AWG Stranded (7x32) TC Conductors • Twisted Pairs Individually Beldfoil® Shielded + Overall Beldfoil (100% Coverage) + TC Braid Shield (65%) • Drain Wire<sup>▲</sup></b>																		
<b>Datalene® Insulation • Chrome PVC Jacket</b>																		
UL AWM Style 2493 (60°C) VW-1  	<b>8162</b>	NEC: CM CEC: CM	2	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.2 30.0 57.0	2.8 13.6 25.9	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 4.3Ω/M' 14.1Ω/km	.343 8.71	100	78%	12.5	41	22	72.2	
	<b>8163</b>	NEC: CM CEC: CM	3	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.0 34.0 66.0	3.2 15.5 30.0	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 4.4Ω/M' 14.4Ω/km	.359 9.12	100	78%	12.5	41	22	72.2	
	<b>8164</b>	NEC: CM CEC: CM	4	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.2 39.5 79.0	3.7 18.0 35.9	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 3.2Ω/M' 10.5Ω/km	.388 9.86	100	78%	12.5	41	22	72.2	
	<b>8165</b>	NEC: CM CEC: CM	5	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.0 45.0 89.0	4.1 20.5 40.5	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 3.4Ω/M' 11.2Ω/km	.413 10.49	100	78%	12.5	41	22	72.2	
	<b>8166</b>	NEC: CM CEC: CM	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.0 50.0 99.0	4.1 22.7 45.0	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 2.8Ω/M' 9.2Ω/km	.446 11.33	100	78%	12.5	41	22	72.2	
	<b>8167</b>	NEC: CM CEC: CM	7	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	52.5 103.0	23.9 46.7	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 2.8Ω/M' 9.2Ω/km	.446 11.33	100	78%	12.5	41	22	72.2	

<sup>▲</sup>24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

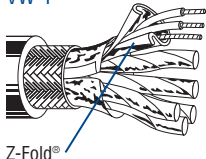
\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

## Individually Shielded Pairs with Overall Foil/Braid Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
<b>24 AWG</b> Stranded (7x32) TC Conductors • Twisted Pairs Individually Beldfoil® Shielded + Overall Beldfoil (100% Coverage) + TC Braid Shield (65%) • Drain Wire <sup>▲</sup>																		
<b>Datalene® Insulation • Chrome PVC Jacket</b>																		
UL AWM Style 2493 (60°C) VW-1   Z-Fold®	<b>8168</b>	NEC:	8	See	100	30.5	10.8	4.9	24.0Ω/M'	Individual:	.479	12.17	100	78%	12.5	41	22	72.2
		CM		Chart 3	500	152.4	61.5	28.0	78.7Ω/km	18.0Ω/M'								
		CEC:		(Tech Info	1000	304.8	115.0	52.3	59.1Ω/km	Overall:								
		CM		Section)					3.0Ω/M'	9.8Ω/km								
	<b>8170</b>	NEC:	10	See	100	30.5	18.0	8.2	24.0Ω/M'	Individual:	.584	14.83	100	78%	12.5	41	22	72.2
CM		Chart 3		500	152.4	83.0	37.7	78.7Ω/km	18.0Ω/M'									
CEC:		(Tech Info		1000	304.8	164.0	74.5	59.1Ω/km	Overall:									
CM		Section)						2.7Ω/M'	8.9Ω/km									
	<b>8175</b>	NEC:	15	See	100	30.5	22.6	10.3	24.0Ω/M'	Individual:	.665	16.89	100	78%	12.5	41	22	72.2
CM		Chart 3		500	152.4	107.5	48.9	78.7Ω/km	18.0Ω/M'									
CEC:		(Tech Info		1000	304.8	210.0	95.5	59.1Ω/km	Overall:									
CM		Section)						2.5Ω/M'	8.2Ω/km									
	<b>8178</b>	NEC:	18	See	100	30.5	24.6	11.2	24.0Ω/M'	Individual:	.686	17.42	100	78%	12.5	41	22	72.2
CM		Chart 3		500	152.4	117.0	53.2	78.7Ω/km	18.0Ω/M'									
CEC:		(Tech Info		1000	304.8	238.0	108.2	59.1Ω/km	Overall:									
CM		Section)						2.6Ω/M'	8.5Ω/km									
	<b>8185</b>	NEC:	25	See	100	30.5	32.3	14.7	24.0Ω/M'	Individual:	.822	20.88	100	78%	12.5	41	22	72.2
CM		Chart 3		500	152.4	160.5	73.0	78.7Ω/km	18.0Ω/M'									
CEC:		(Tech Info		1000	304.8	356.0	161.8	59.1Ω/km	Overall:									
CM		Section)						2.4Ω/M'	7.9Ω/km									

<sup>▲</sup>24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

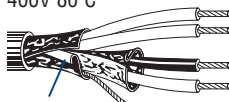
# Combination Shields

Special Audio, Communication and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**25 AWG Stranded (7x33) Tinned Copper Conductors • Overall Beldfoil® Shield (100% Coverage) • 25 AWG Stranded TC Drain Wire**


**Polyethylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

 <p>400V 80°C</p> <p>Shorting Fold</p>	<b>8434</b>		2	Shielded: Red & Black	100	30.5	2.1	1.0	.013	.33	.020	.51	.165	4.19	25	82	40	131				
					500	152.4	7.0	3.2														
					U-1000	U-304.8	14.0	6.4														
					1000	304.8	12.0	5.5														

Red/Black pair 100% Beldfoil shielded with drain wire.  
3 copper, 4 copper-covered steel strands in each conductor.

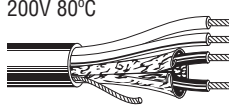
**22 AWG Stranded (7x30) Tinned Copper Conductors • One Pair Beldfoil Shielded (100% Coverage) • Stranded Tinned Copper Drain Wire**


**PVC Insulation • Chrome PVC Jacket (Pair and Single Cabled)**

 <p>300V RMS 90°C</p>	<b>9685</b>	NEC: CM	1.5 (1 pair + 1 single)	Shielded: Black & White	U-1000	U-304.8	24.0	10.9	.013	.33	.032	.81	.199	5.05	60	197	99	325

Meets NEC Article 800  
22 AWG drain wire

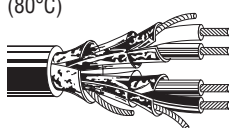
**Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

 <p>200V 80°C</p> <p>24 AWG drain wire</p>	<b>8730<sup>†</sup></b>		2	Shielded: Red & Black	U-1000	U-304.8	24.0	10.9	.008	.20	.030	.76	.205	5.21	34	112	67	220
					1000	304.8	26.0	11.8										

 <p>300V 80°C VW-1</p> <p>24 AWG drain wire</p>	<b>8724<sup>†</sup></b>	NEC: CM	2	Shielded: Red & Black	U-1000	U-304.8	21.0	9.5	.008	.20	.019	.48	.165	4.19	34	112	67	220
					1000	304.8	21.0	9.5										

**22 AWG Stranded (7x30) TC Conductors • Cabled in Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wires**

**Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

 <p>UL AWM Style 2717 (80°C)</p>	<b>8728</b>	NEC: CM	2	Black & Red	U-500	U-152.4	15.5	7.0	.010	.25	.028	.71	.215	5.46	35	115	62	203				
					500	152.4	15.5	7.0														
					U-1000	U-304.8	30.0	13.6														
					1000	304.8	31.0	14.0														

Meets NEC Article 800  
Each pair Beldfoil shielded with individual drain wire plus polyester film over each shield.

TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

† Request Technical Bulletin T/8-21 before planning high and low level circuits in the same cable.

# Combination Shields

Special Audio, Communication and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**20 AWG** Stranded (7x28) TC Conductors • Conductors Cabled • Beldfoil® Shield as noted (100% Coverage) • 20 or 22 AWG Stranded TC Drain Wire

**Polyethylene Insulation • Chrome PVC Jacket**

350V 80°C	<b>8763</b>	—	1.5 (1 pair + 1 single)	Shielded: Black & Red  Unshielded: Clear	1000	304.8	25.0	11.4	.014	.36	.028	.71	.210	5.33	26	85	48	157
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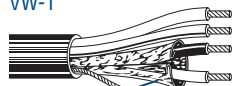


Z-Fold®

Beldfoil shield over Red and Black pair only. Clear conductor is unshielded. 20 AWG drain wire.

**PVC Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)**

350V 80°C	<b>8722</b>	NEC: 2	Shielded: Red & Black	U-500	U-152.4	18.0	8.2	.015	.38	.028	.71	.226	5.74	60	197	99	325
VW-1		CMG	Red & Black	500	152.4	18.5	8.4										
		CEC: CMG FT4	Unshielded: Green & White	U-1000	U-304.8	35.0	15.9										
				1000	304.8	36.0	16.4										

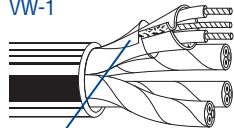


Z-Fold®

Beldfoil shield over Red and Black conductors only. 22 AWG drain wire. Request Technical Bulletin T/8-21 before planning high and low level circuits in the same cable.

**Polypropylene Insulation • Chrome PVC Jacket (Cabled Around a Common Axis)**

400V 105°C	<b>8725</b>	NEC: 4	Red & Black;	500	152.4	38.0	17.3	.015	.38	.030	.76	.345	8.76	27	89	49	161
VW-1		CM	Green & White;	1000	304.8	74.0	33.6										
		CEC: CM	White/Red & White/Black;														
			White/Green & White/Yellow														



Shorting Fold

Four groups of two conductors with drain wires, each group individually Beldfoil shielded with polyester tape wrap. 22 AWG drain wire.

**20 and 18 AWG** Stranded (7x28 and 16x30) TC Conductors • Beldfoil Shield (100% Coverage) over 20 AWG Pair • 22 AWG Stranded TC Drain Wire

**Polyethylene Insulation • Beige PVC Jacket**

UL AWM Style 2094 (300V 60°C)	<b>9155</b>	NEC: 2	1 Shld Black & Red	500	152.4	22.5	10.2	.020	.51	.031	.79	.262	6.65	24	79	46	151
		CM	20 (7x28) Red	U-1000	U-304.8	46.0	20.9										
		CEC: CM	1 Unshld Green & 18 (16x30) White	1000	304.8	48.0	21.8			.019	.48			22	72		



Z-Fold®

NEC Article 800

TC = Tinned Copper

\* Capacitance between conductors.

\*\* Capacitance between one conductor and other conductors connected to shield.

# Plenum-Rated


Unshielded

Audio, Control and Instrumentation Cables


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

**22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs**

**Plenum • FEP Insulation • Red FEP Jacket**


	<b>88442</b>	NEC:	1	Black & Red	100	30.5	2.3	1.0	.006	.15	.012	.30	.102	2.59
		CMP			500 <sup>†</sup>	152.4	5.5	2.5						
		CEC:			1000 <sup>†</sup>	304.8	8.0	3.6						
		CMP FT6												
	<b>88741</b>	NEC:	2	Black & Red, Black & White	500 <sup>†</sup>	152.4	8.0	3.6	.006	.15	.012	.30	.169	4.29
		CMP			1000 <sup>†</sup>	304.8	16.0	7.3						
		CEC:												
		CMP FT6												
	<b>88757</b>	NEC:	4	Black & Red, Black & White, Black & Green, Black & Blue	500 <sup>†</sup>	152.4	14.0	6.4	.006	.15	.012	.30	.200	5.08
		CMP			1000 <sup>†</sup>	304.8	28.0	12.7						
		CEC:												
		CMP FT6												

**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

	<b>82442</b>	NEC:	1	Black & Red	U-1000 <sup>†</sup>	U-304.8	9.0	4.1	.006	.15	.014	.36	.112	2.84
		CMP			1000 <sup>†</sup>	304.8	8.0	3.6						
		CEC:												
		CMP FT6												
	<b>82741</b>	NEC:	2	Black & Red, Black & White	U-1000 <sup>†</sup>	U-304.8	18.0	8.2	.006	.15	.014	.36	.179	4.55
		CMP			1000 <sup>†</sup>	304.8	20.0	9.1						
		CEC:												
		CMP FT6												
	<b>82742</b>	NEC:	3	Black & Red, Black & White, Black & Green	U-1000 <sup>†</sup>	U-304.8	24.0	10.9	.006	.15	.014	.36	.191	4.85
		CMP			1000 <sup>†</sup>	304.8	26.0	11.8						
		CEC:												
		CMP FT6												
	<b>82757</b>	NEC:	4	Black & Red, Black & White, Black & Green, Black & Blue	1000	304.8	32.0	14.5	.006	.15	.014	.36	.210	5.33
		CMP												
		CEC:												
		CMP FT6												
	<b>82743</b>	NEC:	6	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown	U-1000	U-304.8	44.0	20.0	.006	.15	.015	.38	.238	6.05
		CMP			1000	304.8	46.0	20.9						
		CEC:												
		CMP FT6												

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

**Plenum • FEP Insulation • Red FEP Jacket**

	<b>89740</b>	NEC:	1	Black & Red	100	30.5	3.0	1.4	.006	.15	.009	.23	.136	3.45
		CMP			500 <sup>†</sup>	152.4	9.0	4.1						
		CEC:			1000 <sup>†</sup>	304.8	15.0	6.8						
		CMP FT6												

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket**

	<b>87740</b>	NEC:	1	Black & Red	500 <sup>†</sup>	152.4	9.0	4.1	.006	.15	.011	.28	.140	3.56
		CMP			1000 <sup>†</sup>	304.8	17.0	7.7						
		CEC:												
		CMP FT6												

**Plenum • FEP Insulation • Natural Flamarrest Jacket**

	<b>82740</b>	NEC:	1	Black & Red	U-1000	U-304.8	17.0	7.7	.006	.15	.015	.38	.147	3.73
		CMP			1000	304.8	16.0	7.3						
		CEC:												
		CMP FT6												

<sup>†</sup>Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



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

# Plenum-Rated

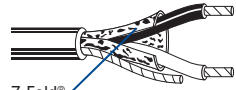
## Overall Beldfoil® Shield

### Audio, Control and Instrumentation Cables


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**22 AWG** Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire

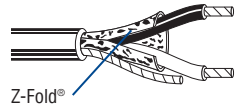
**Plenum • FEP Insulation • Red FEP Jacket**

300V RMS  Z-Fold®	<b>88761</b>	NEC:	1	Black,	100	30.5	2.7	1.2	.006	.15	.014	.36	.119	3.02	35	115	67	220		
		CMP		Red	U-500	U-152.4	7.5	3.4												
		CEC:				500	152.4	7.5	3.4											
		CMP FT6				U-1000	U-304.8	15.0	6.8											
						1000	304.8	12.0	5.5											

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket**

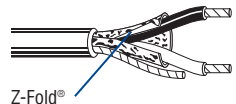
300V RMS  Z-Fold®	<b>87761</b>	NEC:	1	Black,	500	152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220		
		CMP		Red	1000	304.8	11.0	5.0												
		CEC:																		
		CMP FT6																		

**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

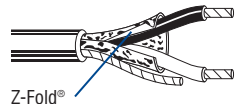
300V RMS  Z-Fold®	<b>82761</b>	NEC:	1	Black,	U-500	U-152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220		
		CMP		Red	U-1000	U-304.8	14.0	6.4												
		CEC:				1000	304.8	11.0	5.0											
		CMP FT6																		

**18 AWG** Stranded (19x30) Tinned Copper Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

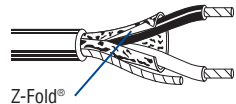
**Plenum • FEP Insulation • Red FEP Jacket**

300V RMS  Z-Fold®	<b>88760</b>	NEC:	1	Black,	100	30.5	3.7	1.7	.007	.18	.014	.36	.150	3.81	51	167	97	318		
		CMP		Red	U-500	U-152.4	12.5	5.7												
		CEC:				500	152.4	11.0	5.0											
		CMP FT6				U-1000	U-304.8	24.0	10.9											
						1000	304.8	22.0	10.0											

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket**

300V RMS  Z-Fold®	<b>87760</b>	NEC:	1	Black,	U-500	U-152.4	12.5	5.7	.007	.18	.014	.36	.150	3.81	51	167	97	318		
		CMP		Red	500	152.4	10.5	4.8												
		CEC:				1000	304.8	21.0	9.5											
		CMP FT6																		

**Plenum • FEP Insulation • Natural Flamarrest Jacket**

300V RMS  Z-Fold®	<b>82760</b>	NEC:	1	Black,	U-500	U-152.4	12.0	5.5	.007	.18	.014	.36	.150	3.81	51	167	97	318		
		CMP		Red	U-1000	U-304.8	22.0	10.0												
		CEC:				1000	304.8	21.0	9.5											
		CMP FT6																		

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

# Plenum-Rated


## Individually Shielded Pairs

### Audio, Control and Instrumentation Cables


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. of Prop. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m


**22 AWG** Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire††

#### Plenum • FEP Insulation • Natural Flamarrest® Jacket


 <p>Z-Fold®</p>	<b>82723</b>	NEC:	2	Red & Black,	U-500	U-152.4	10.5	4.8	14.7Ω/M'	16.6Ω/M'	.153	3.89	36	62%	43	141	75	246
		CMP			U-1000	U-304.8	20.0	9.1	48.2Ω/km	54.5Ω/km								
		CEC:			1000	304.8	19.0	8.6										
		CMP FT6			U-2000	U-609.6	40.0	18.2										

††82723 has 24 AWG drain wire  
Pairs cabled on common axis to reduce diameter.


 <p>Z-Fold®</p>	<b>82777</b>	NEC:	3	See Chart 3	U-500	U-152.4	19.5	8.9	14.7Ω/M'	11.3Ω/M'	.237	6.02	46	62%	35	115	76	249
		CMP			U-1000	U-304.8	38.0	17.3	48.2Ω/km	37.1Ω/km								
		CEC:			1000	304.8	39.0	17.7										
		CMP FT6																


 <p>Z-Fold®</p>	<b>82778</b>	NEC:	6	See Chart 3	1000	304.8	71.0	32.2	14.7Ω/M'	11.3Ω/M'	.314	7.98	46	62%	35	115	76	249
		CMP						48.2Ω/km	37.1Ω/km									
		CEC:																
		CMP FT6																

#### Plenum • FEP Insulation • Red FEP Jacket

 <p>Z-Fold®</p>	<b>88723</b>	NEC:	2	Red & Black,	100	30.5	3.4	1.5	14.7Ω/M'	16.6Ω/M'	.148	3.76	40	69%	35	115	67	220
		CMP			500	152.4	11.0	5.0	48.2Ω/km	54.5Ω/km								
		CEC:			1000	304.8	19.0	8.6										
		CMP FT6																


††88723 has 24 AWG drain wire

 <p>Z-Fold®</p>	<b>88777</b>	NEC:	3	See Chart 3	100	30.5	6.0	2.7	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220
		CMP			500	152.4	19.0	8.6	48.2Ω/km	37.1Ω/km								
		CEC:			1000	304.8	42.0	19.1										
		CMP FT6																


 <p>Z-Fold®</p>	<b>88778</b>	NEC:	6	See Chart 3	100	30.5	7.0	3.2	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220
		CMP			500	152.4	38.5	17.5	48.2Ω/km	37.1Ω/km								
		CEC:			1000	304.8	75.0	34.1										
		CMP FT6																


Pairs cabled on common axis to reduce diameter.

#### Plenum • FEP Insulation • Red Fluorocopolymer Jacket

 <p>Z-Fold®</p>	<b>87723</b>	NEC:	2	Red & Black,	500	152.4	11.0	5.0	14.7Ω/M'	15.0Ω/M'	.148	3.76	40	69%	35	115	67	220
		CMP			1000	304.8	18.0	8.2	48.2Ω/km	49.2Ω/km								
		CEC:																
		CMP FT6																

††87723 has 24 AWG drain wire.

 <p>Z-Fold®</p>	<b>87777</b>	NEC:	3	See Chart 3	500	152.4	18.0	8.2	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220
		CMP			1000	304.8	40.0	18.2	48.2Ω/km	37.1Ω/km								
		CEC:																
		CMP FT6																

 <p>Z-Fold®</p>	<b>87778</b>	NEC:	6	See Chart 3	500	152.4	37.5	17.0	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220
		CMP			1000	304.8	73.0	33.2	48.2Ω/km	37.1Ω/km								
		CEC:																
		CMP FT6																

Pairs cabled on common axis to reduce diameter.

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.