



Paired Cables

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Please refer to "Terms of Use of Master Catalog" on page 22.22

Introduction

Belden® paired cable products are manufactured in a variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions to meet the technical requirements of many different types of systems.

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

As an aid to proper cable selection, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable paired cable selection.

Most of our paired cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a paired cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Paired Cables Packaging

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

Selection Guide

Shielded Multi-Pair Computer Cables

RS-232, RS-422, and RS-485 Applications*

Specifications		Cable Series**																	
		9804	8132	9829	8332	9501	8102	9729	8162	9990	9841	9680	9302*	8302	8777	9873	9773	8132FO	1419A
Conductor Size: (AWG)	28	✓	✓															✓	
	24			✓	✓	✓	✓	✓	✓	✓	✓	✓							✓
	22												✓	✓	✓				
	20															✓			
	18																✓		
Page No.		5.26	5.27	5.30	5.29	5.11	5.31	5.35	5.44	5.37	5.28	5.15	5.17	5.32	5.40	5.42	5.42	5.14	5.15
Insulation:	S-R PVC				✓	✓								✓					
	Polyethylene			✓						✓	✓	✓				✓	✓		
	Polypropylene	✓													✓				
	Datalene®†		✓				✓	✓	✓									✓	✓
Shield:	Overall Foil					✓						✓	✓					✓	✓
	Individual Foil							✓	✓	✓					✓	✓	✓		
	Overall Foil/Braid	✓	✓	✓	✓		✓		✓		✓			✓					
	Braid Coverage	90%	65%	65%	65%		65%		65%		90%			65%					
Drain Wire: (see key below)		●	●	●	×	●	●	▲	▲	▲	●	●	●	×	▲	▲	▲	●	●
No. of Pairs Available:	1					✓					✓								
	2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓				✓	✓
	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓				✓	✓
	5	✓	✓	✓	✓	✓	✓		✓					✓				✓	✓
	6			✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓
	7	✓		✓	✓	✓	✓		✓					✓					
	8		✓			✓	✓		✓					✓				✓	
	9	✓		✓		✓		✓		✓		✓	✓		✓	✓	✓		
	10			✓	✓	✓	✓		✓					✓					
	11							✓							✓	✓			
	12	✓		✓				✓		✓					✓	✓	✓		
	12.5		✓		✓		✓					✓		✓				✓	✓
	13	✓																	
	15				✓	✓	✓	✓	✓				✓	✓	✓	✓	✓		✓
	17							✓							✓				
	18	✓	✓	✓	✓		✓		✓					✓				✓	
	19					✓		✓					✓		✓				
	25	✓	✓	✓	✓	✓	✓		✓	✓				✓				✓	
	27							✓					✓		✓				
	31	✓																	
	37														✓				
	50					✓													
Capacitance †† (pF/ft.)		15.5	11.0	15.5	30.0	30.0	12.5	12.5	12.5	25.0	12.8	15.5	35.0	35.0	30.0	30.0	30.0	11.0	13.0

S-R = Semi-rigid

* Refer to specifications for recommendations.

** All cables are UL-listed.

† Foam high density polyethylene.

†† Capacitance may vary on some cables.

♦ Standard PVC Insulation, solid conductors.

Drain Wire Key:

- = Drain wire overall.
- ▲ = Drain wire each pair.
- × = No drain wire.

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

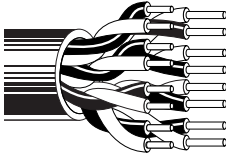
24 AWG Solid Tinned Copper Conductors • Twisted Pairs

PVC Insulation • Chrome PVC Jacket

	UL AWM Style 2576 (150V 80°C)	9562	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	U-1000	U-304.8	20.0	9.1						
			CMG FT4		Section)	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	U-1000	U-304.8	42.0	19.1						
			CMG FT4		Section)	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										
			CMG FT4		Section)										
		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										
			CMG FT4		Section)										

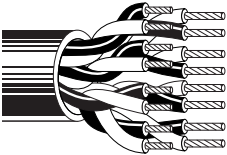
22 AWG Solid Tinned Copper Conductors • Twisted Pairs

PVC Insulation • Chrome PVC Jacket

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

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														
PVC Insulation • Chrome PVC Jacket														
	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†	304.8	221.0	100.5	.010	.25	.045	1.14	.575	14.61	
	CMG													
	CEC:													
	CMG FT4													

[†]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

	300V RMS	88442	NEC: CMP CEC: CMP FT6	1	Black & Red	100	30.5	2.3	1.0	.006	.15	.012	.30	.102	2.59
						500 [†]	152.4	5.5	2.5						
						1000 [†]	304.8	8.0	3.6						
	300V RMS	88741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	500 [†]	152.4	8.0	3.6	.006	.15	.012	.30	.169	4.29
						1000 [†]	304.8	16.0	7.3						
	300V RMS	88757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	500 [†]	152.4	14.0	6.4	.006	.15	.019	.23	.200	5.08
						1000 [†]	304.8	28.0	12.7						

Plenum • FEP Insulation • Natural Flamarrest® Jacket

	300V RMS	82442	NEC: CMP CEC: CMP FT6	1	Black & Red	U-1000 [†]	U-304.8	9.0	4.1	.006	.15	.014	.36	.112	2.84
						1000 [†]	304.8	8.0	3.6						
	300V RMS	82741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	U-1000 [†]	U-304.8	18.0	8.2	.006	.15	.014	.36	.179	4.55
						1000 [†]	304.8	20.0	9.1						
	300V RMS	82742	NEC: CMP CEC: CMP FT6	3	Black & Red, Black & White, Black & Green	U-1000 [†]	U-304.8	24.0	10.9	.006	.15	.014	.36	.191	4.85
						1000 [†]	304.8	26.0	11.8						
	300V RMS	82757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	1000 [†]	304.8	32.0	14.5	.006	.15	.014	.36	.210	5.33
	300V RMS	82743	NEC: CMP CEC: CMP FT6	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
						1000 [†]	304.8	46.0	20.9						

[†]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														
	300V RMS	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					
	UL AWM Style 2464 (300V 80°C)	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														
	300V RMS	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														
	300V RMS	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
18 AWG Stranded (16x30) Tinned Copper Conductors • Twisted Pairs														
PVC Insulation • Chrome PVC Jacket														
 UL AWM Style 2464 (300V 80°C)	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
	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:	1	Black, Red	100	30.5	3.0	1.4	.006	.17	.009	.23	.136	3.45
	CMP		500 [†]			152.4	9.0	4.1							
	CEC:		1000 [†]			304.8	15.0	6.8							
	CMP FT6														

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

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

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

PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2598 (300V 60°C) 	8471	NEC:	1	Black, White	U-500	U-152.4	21.0	9.5	.023	.58	.032	.81	.274	6.96
		CMG:			500	152.4	20.0	9.1						
		CEC:			U-1000	U-304.8	41.0	18.6						
		CMG FT4			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:	1	Black, White	U-500	U-152.4	29.0	13.2	.031	.79	.032	.81	.340	8.64
		CL3			500	152.4	30.5	13.9						
		CEC:			1000	304.8	58.0	26.4						
		FAS 90 FT4												

See NEC Guidelines for applicable CL3 voltage ratings.

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

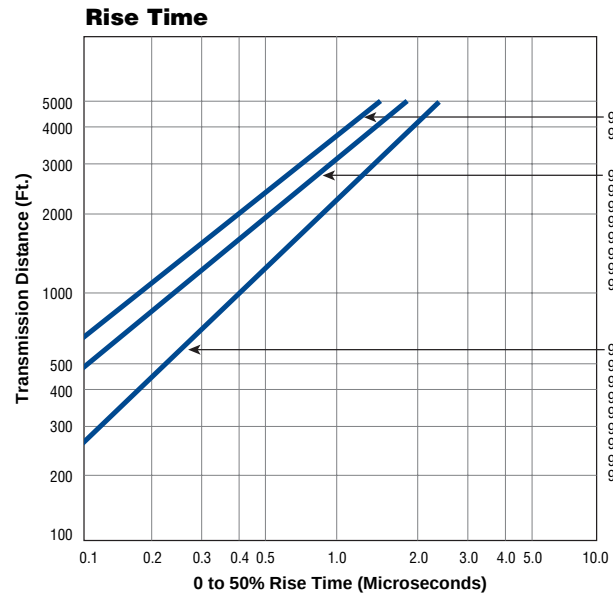
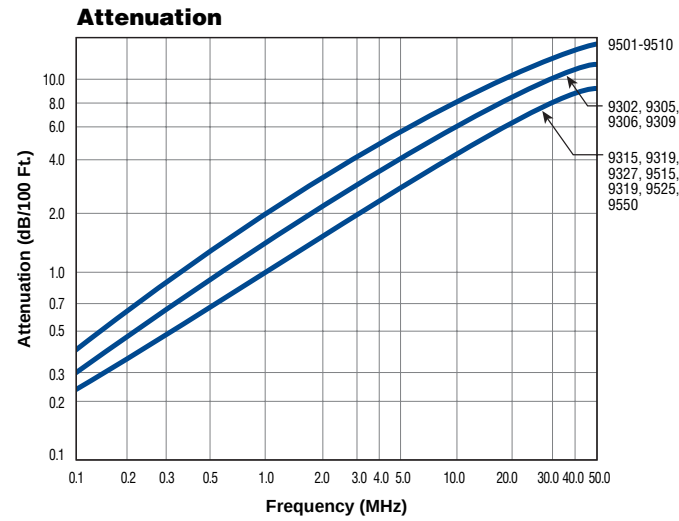
PVC Insulation • Chrome PVC Jacket														
 UL AWM Style 2587 (600V 90°C)	8477	NEC: CL3R	1	Black, White	U-500	U-152.4	41.5	18.8	.032	.81	.035	.89	.386	9.80
					500	152.4	43.5	19.7						
					1000	304.8	85.0	38.6						

See NEC Guidelines for applicable CL3 voltage ratings.

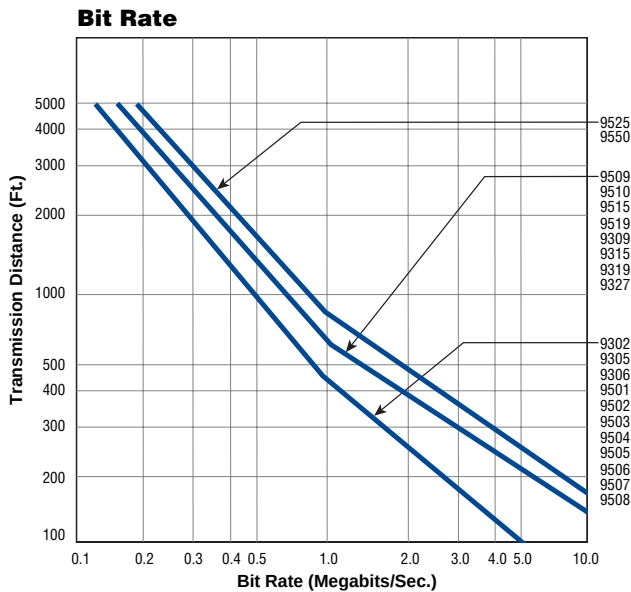
[†]Spools are one piece, but length may vary ±10% from length shown.

Overall Beldfoil® Shield

Cable Characteristics



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.

Overall Beldfoil® Shield

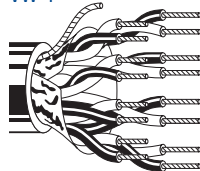
High-Temperature Control and Instrumentation Cables
and Computer Cables for EIA RS-232 Applications

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 • Pairs Cabled Together • Overall Beldfoil® Shield (100% Coverage) • Drain Wire

Tefzel® Insulation • Clear Tefzel Jacket

High-Temperature 300V RMS, 150°C VW-1	85164		4	See Chart 3 (Tech Info Section)	100	30.5	6.6	3.0	.015	.38	.025	.64	.344	8.74	23	75	40	131
					500†	152.4	37.0	16.8										
					1000†	304.8	71.0	32.3										
	85168		8	See Chart 3 (Tech Info Section)	100	30.5	11.5	5.2	.015	.38	.025	.64	.439	11.15	23	75	40	131
					500†	152.4	62.0	28.2										
					1000†	304.8	126.0	57.3										



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 • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire

Semi-rigid PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C) CSA AWM I A	9501	NEC: CMG CEC: CMG FT4	1	See Chart 3 (Tech Info Section)	100	30.5	2.1	1.0	24.0Ω/M'	18.0Ω/M'	.156	3.96	75	60%	40	131	74	243
					U-500	U-152.4	7.5	3.4	78.7Ω/km	59.1Ω/km								
					500	152.4	7.0	3.2										
					U-1000	U-304.8	14.0	6.4										
					1000	304.8	14.0	6.4										
	9502††	NEC: CMG CEC: CMG FT4 P-MSHA-SC-7K-182037	2	See Chart 3 (Tech Info Section)	100	30.5	3.7	1.7	24.0Ω/M'	17.0Ω/M'	.222	5.64	75	60%	30	98	50	164
					U-500	U-152.4	15.0	6.8	78.7Ω/km	55.8Ω/km								
					500	152.4	14.5	6.6										
					U-1000	U-304.8	28.0	12.7										
					1000	304.8	30.0	13.6										
	9503	NEC: CMG CEC: CMG FT4	3	See Chart 3 (Tech Info Section)	100	30.5	3.4	1.5	24.0Ω/M'	17.0Ω/M'	.232	5.89	75	60%	30	98	50	164
					U-500	U-152.4	15.0	6.8	78.7Ω/km	55.8Ω/km								
					500	152.4	14.5	6.6										
					U-1000	U-304.8	28.0	12.7										
					1000	304.8	30.0	13.6										
	9504	NEC: CMG CEC: CMG FT4	4	See Chart 3 (Tech Info Section)	100	30.5	4.0	1.8	24.0Ω/M'	17.0Ω/M'	.265	6.73	75	60%	30	98	50	164
					U-500	U-152.4	18.0	8.2	78.7Ω/km	55.8Ω/km								
					500	152.4	16.5	7.5										
					U-1000	U-304.8	35.0	15.9										
					1000	304.8	36.0	16.3										
	9505	NEC: CMG CEC: CMG FT4	5	See Chart 3 (Tech Info Section)	100	30.5	4.7	2.1	24.0Ω/M'	17.0Ω/M'	.289	7.34	75	60%	30	98	50	164
					U-500	U-152.4	21.5	9.8	78.7Ω/km	55.8Ω/km								
					500	152.4	23.0	10.4										
					U-1000	U-304.8	41.0	18.6										
					1000	304.8	43.0	19.5										

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.

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

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

Tefzel is a DuPont trademark.

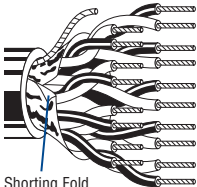
BELDEN

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

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

Overall Beldfoil® Shield

Computer Cables for EIA RS-232 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
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire <i>(continued)</i>																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
 Shorting Fold	9506	NEC:	6	See Chart 3 (Tech Info Section)	100	30.5	5.0	2.3	24.0Ω/M'	16.0Ω/M'	.289	7.34	75	60%	30	98	50	164
		CMG			U-500	U-152.4	23.0	10.4	78.7Ω/km	52.5Ω/km								
		CEC:			500	152.4	25.0	11.3										
	CMG FT4	U-1000	U-304.8	45.0	20.4					For Plenum version of 9506, see 82506.								
	1000	304.8	47.0	21.4														
	9507	NEC:	7	See Chart 3 (Tech Info Section)	100	30.5	5.5	2.5	24.0Ω/M'	16.5Ω/M'	.294	7.47	75	60%	30	98	50	164
		CMG			U-500	U-152.4	25.0	11.3	78.7Ω/km	54.1Ω/km								
		CEC:			500	152.4	27.0	12.3										
	CMG FT4	U-1000	U-304.8	49.0	22.2													
1000	304.8	51.0	23.1															
9508	NEC:	8	See Chart 3 (Tech Info Section)	100	30.5	6.3	2.9	24.0Ω/M'	16.5Ω/M'	.324	8.23	75	60%	30	98	50	164	
	CMG			500	152.4	30.5	13.8	78.7Ω/km	54.1Ω/km									
	CEC:			1000	304.8	60.0	27.2											
CMG FT4																		
9509	NEC:	9	See Chart 3 (Tech Info Section)	100	30.5	6.9	3.1	24.0Ω/M'	16.5Ω/M'	.334	8.48	75	60%	30	98	50	164	
	CMG			500	152.4	33.5	15.2	78.7Ω/km	54.1Ω/km									
	CEC:			1000	304.8	67.0	30.4											
CMG FT4																		
9510	NEC:	10	See Chart 3 (Tech Info Section)	100	30.5	7.5	3.4	24.0Ω/M'	16.5Ω/M'	.368	9.34	75	60%	30	98	50	164	
	CMG			500	152.4	36.5	16.6	78.7Ω/km	54.1Ω/km									
	CEC:			1000	304.8	74.0	33.6											
CMG FT4																		
9515	NEC:	15	See Chart 3 (Tech Info Section)	100	30.5	10.4	4.7	24.0Ω/M'	16.5Ω/M'	.417	10.6	75	60%	30	98	50	164	
	CMG			500	152.4	52.0	23.6	78.7Ω/km	54.1Ω/km									
	CEC:			1000	304.8	102.0	46.4											
CMG FT4																		
9519	NEC:	19	See Chart 3 (Tech Info Section)	100	30.5	12.8	5.8	24.0Ω/M'	16.5Ω/M'	.448	11.4	75	60%	30	98	50	164	
	CMG			500	152.4	61.5	28.0	78.7Ω/km	54.1Ω/km									
	CEC:			1000	304.8	122.0	55.5											
CMG FT4																		
9525	NEC:	25	See Chart 3 (Tech Info Section)	100	30.5	16.0	7.3	24.0Ω/M'	16.5Ω/M'	.503	12.8	75	60%	30	98	50	164	
	CMG			500	152.4	79.5	36.1	78.7Ω/km	54.1Ω/km									
	CEC:			1000	304.8	155.0	70.3											
CMG FT4																		
9550	NEC:	50	Request Technical Bulletin T/8-4	100	30.5	31.9	14.5	24.0Ω/M'	15.2Ω/M'	.708	18.0	75	60%	30	98	50	164	
	CMG			500†	152.4	153.5	69.8	78.7Ω/km	49.9Ω/km									
	CEC:			1000†	304.8	311.0	141.4											
CMG FT4																		

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.

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

Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications
 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		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 Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire

Plenum • FEP Insulation • Natural Flamarrest® Jacket

	300V RMS	82641	NEC: CMP CEC: CMP FT6	1	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	9.0 8.0	4.1 3.6	.006 .15	.014 .36	.106 .269	2.69	31	102	59	194
		82502	NEC: CMP CEC: CMP FT6	2	See Chart 3 (Tech Info Section)	U-500† 1000†	U-152.4 U-304.8	8.0 16.0	3.6 7.3	.006 .15	.014 .36	.162 .411	4.11	25	82	45	148
		82503	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	19.0 18.0	8.6 8.2	.006 .15	.014 .36	.169 .429	4.29	25	82	45	148
		82504	NEC: CMP CEC: CMP FT6	4	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	24.0 26.0	10.9 11.8	.006 .15	.014 .36	.193 .490	4.90	25	82	45	148
		82505	NEC: CMP CEC: CMP FT6	5	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	29.0 31.0	13.2 14.0	.006 .15	.015 .38	.196 .498	4.98	25	82	45	148
		82506	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	U-500† 1000†	U-152.4 U-304.8	17.5 34.0	8.0 15.5	.006 .15	.015 .38	.209 .531	5.31	25	82	45	148
		82509	NEC: CMP CEC: CMP FT6	9	See Chart 3 (Tech Info Section)	1000†	304.8	49.0	22.3	.006 .15	.015 .38	.246 .625	6.25	23	75	42	138

Plenum • FEP Insulation • Red FEP Jacket

	300V RMS	88641	NEC: CMP CEC: CMP FT6	1	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	2.4 6.0 9.0	1.1 2.7 4.1	.006 .15	.014 .36	.106 .269	2.69	31	102	59	194
		89503	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	4.0 10.5 21.0	1.8 4.8 9.5	.006 .15	.014 .36	.175 .445	4.45	21	69	40	131
		89504	NEC: CMP CEC: CMP FT6	4	See Chart 3 (Tech Info Section)	500† 1000†	152.4 304.8	13.0 29.0	6.0 13.1	.006 .15	.014 .36	.192 .488	4.88	21	69	40	131
		89505	NEC: CMP CEC: CMP FT6	5	See Chart 3 (Tech Info Section)	100 1000†	30.5 304.8	4.9 33.0	2.2 15.0	.006 .15	.014 .36	.197 .500	5.00	21	69	40	131

TC = Tinned Copper

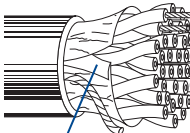
*Capacitance between conductors.

**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

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-485 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
28 AWG Stranded (7x36) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 28 AWG Stranded TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
 UL AWM Style 2919 (30V 80°C) Z-Fold®	8132FO	NEC: CL2	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	8.5 20.0	3.9 9.1	65.0Ω/M' 213.0Ω/km	23.1Ω/M' 75.8Ω/km	.215 5.46	120	78%	11.0	36.1	20.0	65.6	
	8133FO	NEC: CL2	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	11.0 24.0	5.0 11.0	65.0Ω/M' 213.0Ω/km	23.1Ω/M' 75.8Ω/km	.250 6.35	120	78%	11.0	36.1	20.0	65.6	
	8134FO	NEC: CL2	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	13.5 31.0	6.1 14.1	65.0Ω/M' 213.0Ω/km	20.0Ω/M' 65.6Ω/km	.270 6.86	120	78%	11.0	36.1	20.0	65.6	
	8135FO	NEC: CL2	5	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	14.0 32.0	6.4 14.5	65.0Ω/M' 213.0Ω/km	20.0Ω/M' 65.6Ω/km	.280 7.11	120	78%	11.0	36.1	20.0	65.6	
	8138FO	NEC: CL2	8	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	22.0 42.0	10.0 19.1	65.0Ω/M' 213.0Ω/km	17.7Ω/M' 58.1Ω/km	.310 7.88	120	78%	11.0	36.1	20.0	65.6	
	8142FO	NEC: CL2	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	27.5 54.0	12.5 24.5	65.0Ω/M' 213.0Ω/km	17.7Ω/M' 58.1Ω/km	.385 9.78	120	78%	11.0	36.1	20.0	65.6	
	8148FO	NEC: CL2	18	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	38.5 77.0	17.5 34.0	65.0Ω/M' 213.0Ω/km	15.8Ω/M' 51.8Ω/km	.445 11.31	120	78%	11.0	36.1	20.0	65.6	
	8155FO	NEC: CL2	25	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	42.0 84.0	19.1 34.0	65.0Ω/M' 213.0Ω/km	14.3Ω/M' 4.7Ω/km	.545 13.85	120	78%	11.0	36.1	20.0	65.6	

DCR = DC Resistance • TC = Tinned Copper

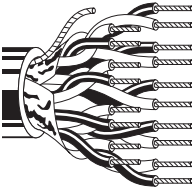
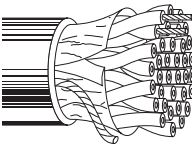
*Capacitance between conductors.

**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.

Overall Beldfoil® Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	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 • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
	UL AWM Style 2919 (30V 80°C)	9680	NEC: CM CEC: CM	3 (Tech Info Section)	500 1000	152.4 304.8	17.0 38.0	7.7 17.3	24.0Ω/M' 78.7Ω/km	14.4Ω/M' 47.2Ω/km	.282 7.16	100	66%	15.5	50.8	27.5	90.2	
		9681	NEC: CM CEC: CM	4 (Tech Info Section)	500 1000	152.4 304.8	24.0 45.0	10.9 20.5	24.0Ω/M' 78.7Ω/km	14.4Ω/M' 47.2Ω/km	.307 7.80	100	66%	15.5	50.8	27.5	90.2	
		9682	NEC: CM CEC: CM	6 (Tech Info Section)	500 1000	152.4 304.8	29.5 56.0	13.4 25.5	24.0Ω/M' 78.7Ω/km	13.1Ω/M' 43.0Ω/km	.342 8.69	100	66%	15.5	50.8	27.5	90.2	
		9683	NEC: CM CEC: CM	9 (Tech Info Section)	500 1000	152.4 304.8	38.0 79.0	17.2 35.9	24.0Ω/M' 78.7Ω/km	12.0Ω/M' 39.4Ω/km	.397 10.10	100	66%	15.5	50.8	27.5	90.2	
		9684	NEC: CM CEC: CM	12.5 (12 prs.+ 1 single) (Tech Info Section)	500 1000	152.4 304.8	49.5 97.0	22.6 44.1	24.0Ω/M' 78.7Ω/km	12.0Ω/M' 39.4Ω/km	.445 11.30	100	66%	15.5	50.8	27.5	90.2	
Datalene® Insulation • Chrome PVC Jacket																		
	UL AWM Style 2919 (30V 80°C)	1419A	NEC: CM CEC: CM FT1	2 (Tech Info Section)	500 1000 10000	152.4 304.8 3048.0	13.5 30.0 310.0	6.1 13.6 140.9	24.0Ω/M' 78.7Ω/km	15.1Ω/M' 49.5Ω/km	.248 6.30	100	78%	13	42.7	22	72	
		1420A	NEC: CM CEC: CM FT 1	3 (Tech Info Section)	500 1000 10000	152.4 304.8 3048.0	15.0 34.0 340.0	6.8 15.5 154.5	24.0Ω/M' 78.7Ω/km	15.1Ω/M' 49.5Ω/km	.261 6.63	100	78%	13	42.7	22	72	
		1421A	NEC: CM CEC: CM	4 (Tech Info Section)	500 1000	152.4 304.8	16.5 37.0	7.5 16.8	24.0Ω/M' 78.7Ω/km	14.4Ω/M' 47.2Ω/km	.280 7.11	100	78%	13	42.7	22	72	
		1422A	NEC: CM CEC: CM	5 (Tech Info Section)	500 1000	152.4 304.8	23.0 43.0	10.5 19.5	24.0Ω/M' 78.7Ω/km	14.4Ω/M' 47.2Ω/km	.294 7.47	100	78%	13	42.7	22	72	
		1423A	NEC: CM CEC: CM	6 (Tech Info Section)	500 1000 10000	152.4 304.8 3048.0	25.0 48.0 500.0	11.4 21.8 227.3	24.0Ω/M' 78.7Ω/km	13.0Ω/M' 42.7Ω/km	.319 8.10	100	78%	13	42.7	22	72	
		1424A	NEC: CM CEC: CM	12.5 (12 prs.+ 1 single) (Tech Info Section)	500 1000	152.4 304.8	43.0 85.0	19.5 38.6	24.0Ω/M' 78.7Ω/km	13.0Ω/M' 42.7Ω/km	.418 10.62	100	78%	13	42.7	22	72	
	1425A	NEC: CM CEC: CM	15 (Tech Info Section)	500 1000	152.4 304.8	53.0 99.0	24.1 45.0	24.0Ω/M' 78.7Ω/km	11.2Ω/M' 36.7Ω/km	.473 12.01	100	78%	13	42.7	22	72		

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.

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**

High-Flex 300V RMS	1508A	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	1883A	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) 	8641	NEC:	1	Black,	100	30.5	2.3	1.0	.016	.41	.025	.64	.168	4.27	22	72	42	138
		CM		Clear	U-500	U-152.4	7.5	3.4										
		CEC:			500	152.4	7.0	3.2										
		CM			U-1000	U-304.8	14.0	6.4										
					1000	304.8	14.0	6.4										
					2000	609.6	28.0	12.7										

For Plenum versions of 8641, see 88641 or 82641.

For Plenum versions of 8641,
see 88641 or 82641.**Plenum • FEP Insulation • Red FEP Jacket**

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

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

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



TC = Tinned Copper

* Capacitance between conductors.

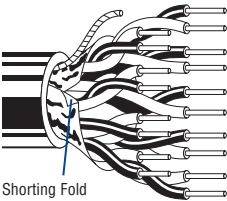
** Capacitance between one conductor and other conductors connected to shield.

† 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
22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																		
PVC Insulation • Chrome PVC Jacket																		
 Shorting Fold	9302	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	15.5 15.0 29.0 31.0	7.0 6.8 13.2 14.1	.013 .33	.032 .81	.244 6.20	35 115	50 164					
	9305	NEC: CMG CEC: CMG FT4	4	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.9 22.0 22.5 43.0 45.0	2.2 10.0 10.2 19.5 20.4	.013 .33	.032 .81	.265 6.73	35 115	50 164					
	9306	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	31.5 62.0	14.3 28.2	.013 .33	.032 .81	.315 8.00	35 115	50 164					
	9309	NEC: CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	44.5 86.0	20.2 39.1	.013 .33	.033 .84	.363 9.22	35 115	50 164					
	9315	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	67.0 133.0	30.5 60.5	.013 .33	.037 .94	.449 11.41	35 115	50 164					
	9319	NEC: CMG CEC: CMG FT4	19	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	85.0 165.0	38.6 75.0	.013 .33	.040 1.02	.495 12.57	35 115	50 164					
	9327	NEC: CMG CEC: CMG FT4	27	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	116.0 230.0	52.7 104.5	.013 .33	.045 1.14	.615 15.62	35 115	50 164					
	300V RMS, 60°C	8751	NEC: CMG CEC: CMG FT4	51	Request Technical Bulletin T/8-4	1000†	304.8	384.0	174.5	.010	.25	.050	1.27	.710	18.03	30	98	42.8
For 38-pair polypropylene version of 8751, see 8752.																		

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
22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Duofoil® Shield (100% Coverage) • 22 AWG Stranded Tinned Copper Drain Wire																		
Datalene® Insulation • Black PVC Jacket																		
UL AWM Style 2668 (300V 60°C)	9184	NEC: CM	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
		CEC: CM		Red & Blue	1000	304.8	59.0	26.8	54.13Ω/km	26.2Ω/km								

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.

BELDEN

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

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

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**

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

Z-Fold®

[†]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

200V RMS 80°C	8752		38	Request Tech Bulletin T/8-4	250 [†]	76.2	65.0	29.5	.008	.20	.045	1.14	.610	15.50	17	56	24.3	80
					1000 [†]	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**

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

**PVC Insulation • Chrome PVC Jacket**

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

Z-Fold®

Polyethylene Insulation • Chrome PVC Jacket

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

Z-Fold®

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

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



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.

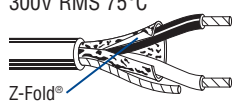
[†]Spools are one piece, but length may vary -0 to +20% from length shown.^{††}Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 1500 ft.

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)**Polypropylene Insulation • Paper Wrap • Gray or Black PVC Jacket**

300V RMS 75°C 	8451	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.

Polypropylene Insulation • PVC Jacket (Available in Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Purple or White)

300V RMS 75°C 	9451	NEC:	1	Black, Red	U-500*	U-152.4	8.5	3.9	.008	.20	.020	.51	.135	3.43	35	115	67	220
		CMR			500*	152.4	8.0	3.6										
		CEC:			T-1000*	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										

*U-500 ft., 500 ft. and T-1000 ft. put-ups available in Gray only.

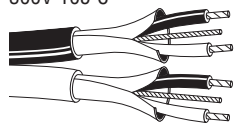
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

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

300V RMS 105°C 	9451SB new	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																
		Limited Smoke																

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

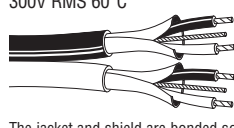
Polyolefin Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray)

300V 105°C 	9451D	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:																
		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.

Plenum • FEP Insulation • White Flamarrest® Jacket in Zip-Cord Construction

300V RMS 60°C 	9451DP new	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																

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

300V RMS 	1266A	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.

PVC Insulation • PVC Jacket (Available in Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black)

300V 90°C 	1503A	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.

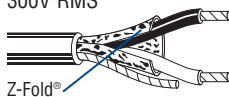
Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

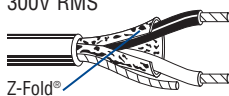
Plenum-Rated and Non-Plenum

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

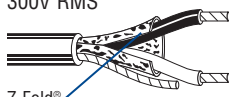
22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire**Plenum • FEP Insulation • Red FEP Jacket**

	88761	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										

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

	87761	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:																

Plenum • FEP Insulation • Natural Flamarrest® Jacket

	82761	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																

Plenum • FEP Insulation • Flamarrest Jacket (Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Purple or White)

	9451P new	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**PVC Insulation • PVC Jacket in Zip-Cord Construction** (Red & Green, Red & Black, Red & Purple or Red & Gray)

	1504A	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**Polyethylene Insulation • Chrome PVC Jacket**

	8762	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										

	9464	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:																

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.

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

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

Overall Beldfoil® Shield

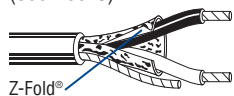
Audio, Control and Instrumentation Cables

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

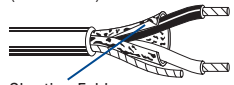
UL AWM Style 2464 (300V 80°C) 	9154	NEC:	1	Black, Red	U-500	U-152.4	11.5	5.2	.014	.36	.031	.79	.198	5.03	60	197	100	328
		CMG			500	152.4	12.0	5.5										
		CEC:			U-1000	U-304.8	22.0	10.0										
		CMG FT4			1000	304.8	23.0	10.5										

Z-Fold®

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

UL AWM Style 2092 (300V 60°C) 	8760	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										

Shorting Fold

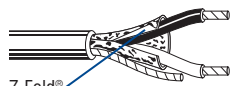
For Plenum versions of 8760,
see 88760, 87760 or 82760.

	9460	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										
		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.

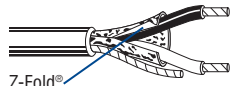
18 AWG Stranded (19x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

Plenum • FEP Insulation • Red FEP Jacket

300V RMS 	88760	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										

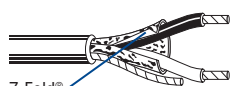
Z-Fold®

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

300V RMS 	87760	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: CMP FT6			1000†	304.8	21.0	9.5										

Z-Fold®

Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS 	82760	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: CMP FT6			1000†	304.8	21.0	9.5										

Z-Fold®

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

16 AWG Stranded (19x29) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 18 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 20253 (600V 80°C)  Shorting Fold	8719	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										

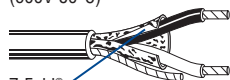
14 AWG Stranded (19x27) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 16 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 20253 (600V 80°C)  Z-Fold®	8720	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										

12 AWG Stranded (19x25) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 14 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 20253 (600V 80°C)  Z-Fold®	8718	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.

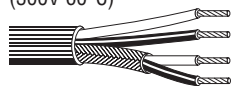
Combination Unshielded and Braid Shield and Overall Braid Shield

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

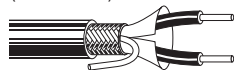
Combination • 22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • TC Braid Shield Over One Pair (62% Coverage)

Polyethylene Insulation • Chrome PVC Jacket

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

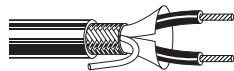
Overall Braid • 22 AWG Solid TC Conductors • Twisted Pair • Polyester Tape + TC Braid Shield (88% Coverage) • 22 AWG Solid TC Drain Wire

PVC Insulation • Black PVC Jacket

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

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

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

	8208	300V RMS 80°C		1	Red,	100	30.5	4.7	2.1	.022	.56	.025	.64	.257	6.53	46	151	77	253
					White	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										
						1000	304.8	43.0	19.5										

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)	8737	NEC: CMG	1	Black, Red	U-500 500	U-152.4 152.4	10.5 10.0	4.8 4.5	.015 .015	.38 .38	.025 .025	.64 .64	.180 .180	4.57	40	131	70	230
		CEC: CMG FT4			U-1000 1000	U-304.8 304.8	20.0 20.0	9.1 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)	8759	NEC: CMG	1	Black, Red	U-500 500	U-152.4 152.4	12.5 12.0	5.7 5.0	.016 .016	.41 .41	.025 .025	.64 .64	.199 .199	5.05	47	154	79	259
		CEC: CMG FT4			U-1000 1000	U-304.8 304.8	24.0 25.0	10.9 11.4										



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	8790	NEC: CMG	1	Red, White	U-500 500	U-152.4 152.4	17.5 17.0	7.9 7.7	.022 .022	.56 .56	.028 .028	.71 .71	.241 .241	6.12	53	174	92	302
		CEC: CMG FT4			U-1000 1000	U-304.8 304.8	33.0 35.0	15.0 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

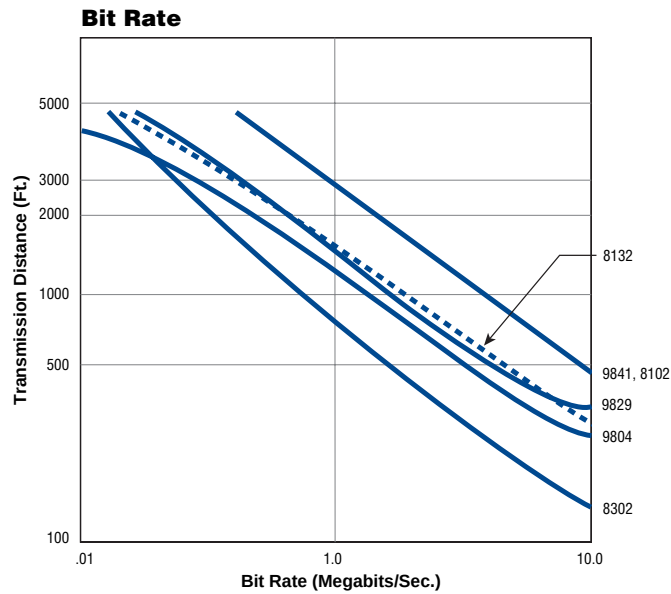
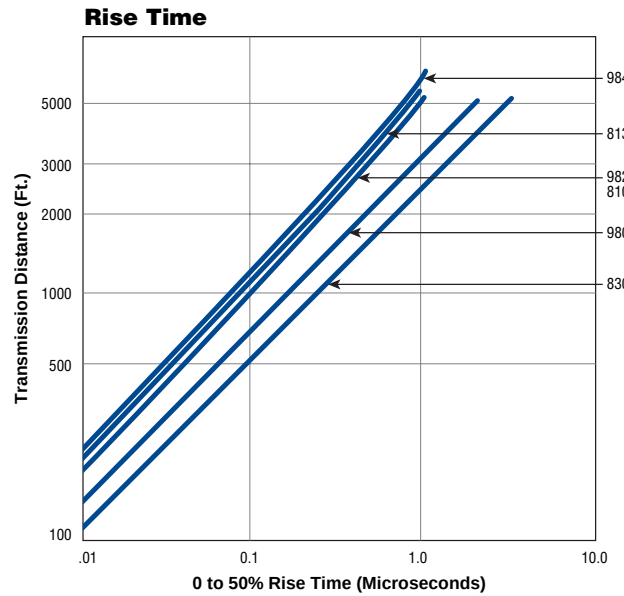
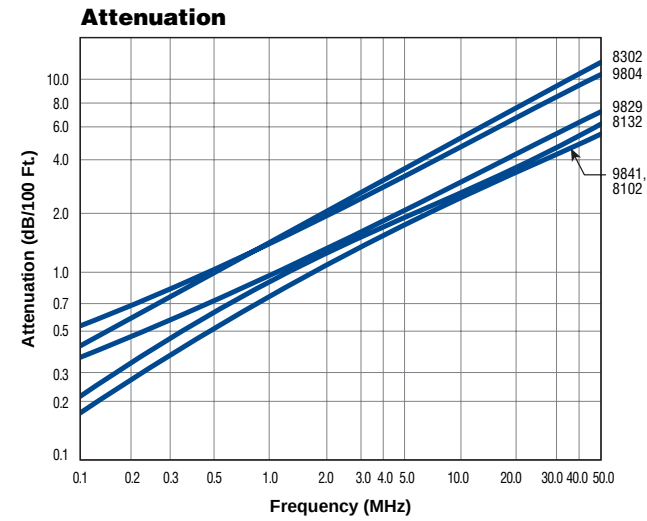
300V RMS 60°C	8780	NEC: CMG	1	Black, White	500	152.4	23.5	10.7	.023	.58	.030	.76	.280	7.11	57	187	98	322
		CEC: CMG FT4			U-1000 1000	U-304.8 304.8	44.0 46.0	20.0 20.9										



*Capacitance between conductors.

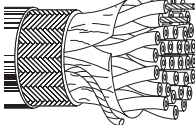
**Capacitance between one conductor and other conductors connected to shield.

Overall Foil/Braid Shield Cable Characteristics



Overall Foil/Braid Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	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
28 AWG Stranded (7x36) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (90% Coverage) • 28 AWG Stranded TC Drain Wire																		
Polypropylene Insulation • Chrome PVC Jacket																		
	9804	NEC: CL2	2	See Chart 3 (Tech Info Section)	100	30.5	3.9	1.8	64.9Ω/M'	4.9Ω/M'	.214	5.44	100	66%	15.5	50.9	27.5	90.2
					500	152.4	14.5	6.6	212.9Ω/km	16.1Ω/km								
					1000	304.8	32.0	14.5										
	9805	NEC: CL2	3	See Chart 3 (Tech Info Section)	100	30.5	4.2	1.9	64.9Ω/M'	4.2Ω/M'	.222	5.64	100	66%	15.5	50.9	27.5	90.2
					500	152.4	15.5	7.0	212.9Ω/km	13.8Ω/km								
					1000	304.8	35.0	15.9										
	9806	NEC: CL2	4	See Chart 3 (Tech Info Section)	100	30.5	4.3	2.0	64.9Ω/M'	4.0Ω/M'	.237	6.02	100	66%	15.5	50.9	27.5	90.2
					500	152.4	17.5	7.9	212.9Ω/km	13.1Ω/km								
					1000	304.8	39.0	17.7										
	9807	NEC: CL2	5	See Chart 3 (Tech Info Section)	100	30.5	4.3	2.0	64.9Ω/M'	4.2Ω/M'	.240	6.10	100	66%	15.5	50.9	27.5	90.2
500					152.4	18.0	8.2	212.9Ω/km	13.8Ω/km									
1000					304.8	39.0	17.7											
9808	NEC: CL2	7	See Chart 3 (Tech Info Section)	100	30.5	4.9	2.2	64.9Ω/M'	3.7Ω/M'	.256	6.50	100	66%	15.5	50.9	27.5	90.2	
				500	152.4	20.5	9.3	212.9Ω/km	12.1Ω/km									
				1000	304.8	44.0	20.0											
9809	NEC: CL2	9	See Chart 3 (Tech Info Section)	100	30.5	5.7	2.6	64.9Ω/M'	3.1Ω/M'	.290	7.37	100	66%	15.5	50.9	27.5	90.2	
				500	152.4	25.0	11.3	212.9Ω/km	10.2Ω/km									
				1000	304.8	53.0	24.1											
9812	NEC: CL2	12	See Chart 3 (Tech Info Section)	100	30.5	6.7	3.0	64.9Ω/M'	2.8Ω/M'	.319	8.10	100	66%	15.5	50.9	27.5	90.2	
				500	152.4	31.0	14.1	212.9Ω/km	9.2Ω/km									
				1000	304.8	62.0	28.2											
9813	NEC: CL2	13	See Chart 3 (Tech Info Section)	100	30.5	7.0	3.2	64.9Ω/M'	2.2Ω/M'	.336	8.53	100	66%	15.5	50.9	27.5	90.2	
				500	152.4	34.0	15.5	212.9Ω/km	7.2Ω/km									
				1000	304.8	66.0	30.0											
9819	NEC: CL2	18	See Chart 3 (Tech Info Section)	100	30.5	8.3	3.8	64.9Ω/M'	2.0Ω/M'	.365	9.27	100	66%	15.5	50.9	27.5	90.2	
				500	152.4	41.0	18.6	212.9Ω/km	6.7Ω/km									
				1000	304.8	82.0	37.3											
9825	NEC: CL2	25	See Chart 3 (Tech Info Section)	100	30.5	9.9	4.5	64.9Ω/M'	1.9Ω/M'	.429	10.90	100	66%	15.5	50.9	27.5	90.2	
				500	152.4	54.5	24.8	212.9Ω/km	6.2Ω/km									
				1000	304.8	108.0	49.1											
9814	NEC: CL2	31	See Chart 3 (Tech Info Section)	100	30.5	11.8	5.4	64.9Ω/M'	2.1Ω/M'	.462	11.73	100	66%	15.5	50.9	27.5	90.2	
				500	152.4	64.0	29.1	212.9Ω/km	6.9Ω/km									
				1000	304.8	127.0	57.7											

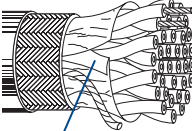
DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

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

Overall Foil/Braid Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	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
28 AWG Stranded (7x36) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage) • 28 AWG Stranded TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
 Shorting Fold	8132	NEC: CL2	2	See Chart 5 (Tech Info Section)	100	30.5	3.6	1.6	65.0Ω/M'	5.1Ω/M'	.220	5.59	120	78%	11.0	36.1	20.0	65.6
					500	152.4	14.5	6.6	213.0Ω/km	16.6Ω/km								
					1000	304.8	29.0	13.2										
	8133	NEC: CL2	3	See Chart 5 (Tech Info Section)	100	30.5	3.8	1.7	65.0Ω/M'	5.2Ω/M'	.270	6.86	120	78%	11.0	36.1	20.0	65.6
					500	152.4	15.0	6.8	213.0Ω/km	17.1Ω/km								
					1000	304.8	34.0	15.5										
	8134	NEC: CL2	4	See Chart 5 (Tech Info Section)	100	30.5	4.3	2.0	65.0Ω/M'	4.4Ω/M'	.290	7.37	120	78%	11.0	36.1	20.0	65.6
					500	152.4	18.0	8.2	213.0Ω/km	14.3Ω/km								
					1000	304.8	39.0	17.7										
	8135	NEC: CL2	5	See Chart 5 (Tech Info Section)	100	30.5	4.6	2.1	65.0Ω/M'	4.2Ω/M'	.300	7.62	120	78%	11.0	36.1	20.0	65.6
500					152.4	20.0	9.1	213.0Ω/km	13.8Ω/km									
1000					304.8	42.0	19.1											
8138	NEC: CL2	8	See Chart 5 (Tech Info Section)	100	30.5	5.6	2.5	65.0Ω/M'	3.7Ω/M'	.330	8.38	120	78%	11.0	36.1	20.0	65.6	
				500	152.4	27.0	12.3	213.0Ω/km	12.3Ω/km									
				1000	304.8	52.0	23.6											
8142	NEC: CL2	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	100	30.5	6.8	3.1	65.0Ω/M'	3.1Ω/M'	.375	9.53	120	78%	11.0	36.1	20.0	65.6	
				500	152.4	33.0	15.0	213.0Ω/km	10.1Ω/km									
				1000	304.8	66.0	29.9											
8148	NEC: CL2	18	See Chart 5 (Tech Info Section)	100	30.5	8.5	3.9	65.0Ω/M'	2.6Ω/M'	.465	11.81	120	78%	11.0	36.1	20.0	65.6	
				500	152.4	47.5	21.6	213.0Ω/km	8.4Ω/km									
				1000	304.8	92.0	41.8											
8155	NEC: CL2	25	See Chart 5 (Tech Info Section)	100	30.5	11.1	5.0	65.0Ω/M'	2.3Ω/M'	.565	14.35	120	78%	11.0	36.1	20.0	65.6	
				500	152.4	64.0	29.1	213.0Ω/km	7.6Ω/km									
				1000	304.8	121.0	55.0											

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

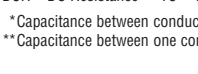
**Capacitance between one conductor and other conductors connected to shield.

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.

Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-485 Applications

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
24 AWG Stranded (7x32) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (90% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
	9841	NEC:	1	See Chart 5 (Tech Info Section)	100	30.5	4.3	2.0	24.0Ω/M'	3.4Ω/M'	.232	5.89	120	66%	12.8	42.0	23.0	75.5
		CM			500	152.4	20.0	9.1	78.7Ω/km	11.0Ω/km								
		CEC:			1000	304.8	40.0	18.2										
		CM									For Plenum versions of 9841, see 82841 or 89841.							
	9842	NEC:	2	See Chart 5 (Tech Info Section)	100	30.5	5.8	2.6	24.0Ω/M'	2.2Ω/M'	.340	8.64	120	66%	12.8	42.0	23.0	75.5
		CM			500	152.4	29.5	13.4	78.7Ω/km	7.2Ω/km								
		CEC:			1000	304.8	57.0	25.9										
		CM									For Plenum versions of 9842, see 82842.							
	9843	NEC:	3	See Chart 5 (Tech Info Section)	100	30.5	7.1	3.2	24.0Ω/M'	2.3Ω/M'	.360	9.14	120	66%	12.8	42.0	23.0	75.5
		CM			500	152.4	34.5	15.7	78.7Ω/km	7.7Ω/km								
		CEC:			1000	304.8	67.0	30.5										
		CM																
	9844	NEC:	4	See Chart 5 (Tech Info Section)	500	152.4	43.0	19.5	24.0Ω/M'	2.1Ω/M'	.390	9.91	120	66%	12.8	42.0	23.0	75.5
		CM			1000	304.8	83.0	37.7	78.7Ω/km	6.9Ω/km								
		CEC:																
		CM																
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																		
	82841	NEC:	1	See Chart 5 (Tech Info Section)	500	152.4	13.0	6.0	24.0Ω/M'	3.1Ω/M'	.204	5.18	120	76%	12	39.4	22	72.2
		CMP			1000	304.8	26.0	11.8	78.7Ω/km	10.2Ω/km								
	82842	NEC:	2	See Chart 5 (Tech Info Section)	500	152.4	19.0	8.6	24.0Ω/M'	2.4Ω/M'	.273	6.93	120	76%	12	39.4	22	72.2
		CMP			1000	304.8	42.0	19.1	78.7Ω/km	7.9Ω/km								
	82842	CEC:																
		CMP FT6																
Plenum • Foam FEP Insulation • Red FEP Jacket																		
	89841	NEC:	1	See Chart 5 (Tech Info Section)	500	152.4	13.5	6.1	24.0Ω/M'	3.1Ω/M'	.202	5.13	120	76%	12	39.4	22	72.2
		CMP			1000	304.8	27.0	12.3	78.7Ω/km	10.2Ω/km								
	89842	NEC:	2	See Chart 5 (Tech Info Section)	500	152.4	25.5	11.6	24.0Ω/M'	3.1Ω/M'	.305	7.75	120	76%	12	39.4	22	72.2
		CMP			1000	304.8	49.0	22.2	78.7Ω/km	10.2Ω/km								
	89842	CEC:																
		CMP FT6																

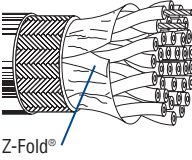
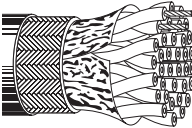
DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

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

Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 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
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage)																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
	UL AWM Style 2464 (300V 80°C) CSA AWM I A	8332	NEC: CMG CEC: CMG FT4	2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.1 16.5 37.0	1.9 7.5 16.8	24.0Ω/M' 78.7Ω/km	5.4Ω/M' 17.7Ω/km	.250 6.35	75	60%	30	98	50	164	
		8333	NEC: CMG CEC: CMG FT4	3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.8 20.5 44.0	2.2 9.3 20.1	24.0Ω/M' 78.7Ω/km	6.6Ω/M' 21.7Ω/km	.265 6.73	75	60%	30	98	50	164	
		8334	NEC: CMG CEC: CMG FT4	4 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.3 22.5 49.0	2.4 10.2 22.3	24.0Ω/M' 78.7Ω/km	4.5Ω/M' 14.8Ω/km	.288 7.32	75	60%	30	98	50	164	
		8335	NEC: CMG CEC: CMG FT4	5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.0 29.5 57.0	2.7 13.4 25.9	24.0Ω/M' 78.7Ω/km	4.6Ω/M' 15.1Ω/km	.295 7.49	75	60%	30	98	50	164	
		8336	NEC: CMG CEC: CMG FT4	6 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.5 31.5 62.0	3.0 14.3 28.2	24.0Ω/M' 78.7Ω/km	4.7Ω/M' 15.4Ω/km	.310 7.87	75	60%	30	98	50	164	
		8337	NEC: CMG CEC: CMG FT4	7 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.8 33.0 65.0	3.1 14.9 29.5	24.0Ω/M' 78.7Ω/km	4.7Ω/M' 15.4Ω/km	.321 8.15	75	60%	30	98	50	164	
		8340	NEC: CMG CEC: CMG FT4	10 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.1 43.5 90.0	4.1 19.7 40.9	24.0Ω/M' 78.7Ω/km	3.5Ω/M' 11.5Ω/km	.385 9.78	75	60%	30	98	50	164	
		8342	NEC: CMG CEC: CMG FT4	12.5 (12 pairs + 1 single) (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.0 55.0 109.0	5.0 25.0 49.5	24.0Ω/M' 78.7Ω/km	3.6Ω/M' 11.8Ω/km	.405 10.29	75	60%	30	98	50	164	
		8345	NEC: CMG CEC: CMG FT4	15 (Tech Info Section)	500 1000	152.4 304.8	61.5 123.0	28.0 55.9	24.0Ω/M' 78.7Ω/km	3.2Ω/M' 10.5Ω/km	.445 11.30	75	60%	30	98	50	164	
			UL AWM Style 2464 (300V 80°C)	8348	NEC: CMG CEC: CMG FT4	18 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	14.2 78.5 152.0	6.4 35.8 69.3	24.0Ω/M' 78.7Ω/km	2.7Ω/M' 8.9Ω/km	.480 12.19	75	60%	30	98	50
8355	NEC: CMG CEC: CMG FT4			25 (Tech Info Section)	500 1000	152.4 304.8	96.5 195.0	43.9 88.6	24.0Ω/M' 78.7Ω/km	2.5Ω/M' 8.2Ω/km	.550 13.97	75	60%	30	98	50	164	

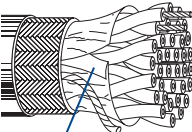
DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

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

Overall Foil/Braid Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	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 • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage) • TC Drain Wire†																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2919 (30V 80°C)  Z-Fold®	9829	NEC: CM CEC: CM	2	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.7 22.0 43.0	2.1 10.0 19.5	24.0Ω/M' 78.7Ω/km	4.4Ω/M' 14.4Ω/km	.291 7.39	100	66%	15.5	50.9	27.5	90.2	
	9830	NEC: CM CEC: CM	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	26.5 53.0	12.0 24.1	24.0Ω/M' 78.7Ω/km	4.4Ω/M' 14.4Ω/km	.305 7.74	100	66%	15.5	50.9	27.5	90.2	
	9831	NEC: CM CEC: CM	4	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.2 30.0 58.0	2.8 13.6 26.4	24.0Ω/M' 78.7Ω/km	3.9Ω/M' 12.8Ω/km	.330 8.38	100	66%	15.5	50.9	27.5	90.2	
	9832	NEC: CM CEC: CM	5	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.6 32.5 65.0	3.0 14.8 29.5	24.0Ω/M' 78.7Ω/km	3.9Ω/M' 12.8Ω/km	.338 8.59	100	66%	15.5	50.9	27.5	90.2	
	9839	NEC: CM CEC: CM	6	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	35.5 69.0	16.1 31.4	24.0Ω/M' 78.7Ω/km	2.1Ω/M' 6.9Ω/km	.364 9.25	100	66%	15.5	50.9	27.5	90.2	
	9833	NEC: CM CEC: CM	7	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	38.5 77.0	17.5 35.0	24.0Ω/M' 78.7Ω/km	3.7Ω/M' 12.1Ω/km	.370 9.40	100	66%	15.5	50.9	27.5	90.2	
	9834	NEC: CM CEC: CM	9	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	47.0 93.0	21.4 42.3	24.0Ω/M' 78.7Ω/km	3.0Ω/M' 9.8Ω/km	.419 10.64	100	66%	15.5	50.9	27.5	90.2	
	9835	NEC: CM CEC: CM	10	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	51.5 102.0	23.4 46.4	24.0Ω/M' 78.7Ω/km	2.8Ω/M' 9.2Ω/km	.451 11.46	100	66%	15.5	50.9	27.5	90.2	
	9836	NEC: CM CEC: CM	12	See Chart 5 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.4 57.0 114.0	4.7 25.9 51.8	24.0Ω/M' 78.7Ω/km	2.8Ω/M' 9.2Ω/km	.464 11.79	100	66%	15.5	50.9	27.5	90.2	
	9837	NEC: CM CEC: CM	18	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	87.5 174.0	39.8 79.1	24.0Ω/M' 78.7Ω/km	2.0Ω/M' 6.6Ω/km	.567 14.40	100	66%	15.5	50.9	27.5	90.2	
9838	NEC: CM CEC: CM	25	See Chart 5 (Tech Info Section)	500	152.4	113.0	51.4	24.0Ω/M' 78.7Ω/km	1.9Ω/M' 6.2Ω/km	.670 17.02	100	66%	15.5	50.9	27.5	90.2		

†24 AWG stranded TC drain wire.

†24 AWG stranded TC drain wire.

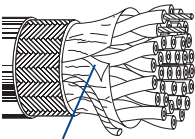
DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

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

Overall Foil/Braid Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	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 • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage) • Drain Wire†																																
Datalene® Insulation • Chrome PVC Jacket																																
 Shorting Fold	8102	NEC:	2	See	100	30.5	4.1	1.9	24.0Ω/M'	4.6Ω/M'	.270	6.86	100	78%	12.5	41	22	72.2														
		CM		Chart 5	500	152.4	17.0	7.7	78.7Ω/km	15.1Ω/km																						
		CEC:		(Tech Info	1000	304.8	38.0	17.3																								
		CM		Section)	10000	3048.0	380.0	172.7																								
		NEC:		3	See	100	30.5	4.6	2.1	24.0Ω/M'	3.8Ω/M'	.283							7.19	100	78%	12.5	41	22	72.2							
		CM			Chart 5	500	152.4	19.5	8.9	78.7Ω/km	12.5Ω/km																					
		CEC:			(Tech Info	1000	304.8	42.0	19.1																							
		CM			Section)	10000	3048.0	430.0	195.5																							
		NEC:			4	See	100	30.5	5.1	2.3	24.0Ω/M'	4.1Ω/M'							.302							7.67	100	78%	12.5	41	22	72.2
		CM				Chart 5	500	152.4	21.0	9.5	78.7Ω/km	13.5Ω/km																				
CEC:	(Tech Info	1000	304.8			46.0	20.9																									
CM	Section)	10000	3048.0			490.0	222.7																									
NEC:	5	See	100			30.5	5.8	2.6	24.0Ω/M'	4.2Ω/M'	.316	8.03	100	78%	12.5	41	22	72.2														
CM		Chart 5	500			152.4	28.0	12.7	78.7Ω/km	13.8Ω/km																						
CEC:		(Tech Info	1000	304.8		53.0	24.1																									
CM		Section)																														
NEC:		6	See	100		30.5	6.3	2.9	24.0Ω/M'	3.5Ω/M'	.341	8.66							100	78%	12.5	41	22	72.2								
CM			Chart 5	500		152.4	30.5	13.9	78.7Ω/km	11.5Ω/km																						
CEC:			(Tech Info	1000	304.8	58.0	26.4																									
CM			Section)																													
NEC:			7	See	100	30.5	6.8	3.1	24.0Ω/M'	3.5Ω/M'	.341	8.66													100	78%	12.5	41	22	72.2		
CM				Chart 5	500	152.4	33.0	15.0	78.7Ω/km	11.5Ω/km																						
CEC:	(Tech Info			1000	304.8	63.0	28.6																									
CM	Section)																															
NEC:	8			See	100	30.5	7.6	3.5	24.0Ω/M'	2.7Ω/M'	.370	9.40	100	78%	12.5	41	22	72.2														
CM				Chart 5	500	152.4	37.5	17.1	78.7Ω/km	8.9Ω/km																						
CEC:		(Tech Info		1000	304.8	72.0	32.8																									
CM		Section)																														
NEC:		10		See	100	30.5	8.1	3.7	24.0Ω/M'	2.4Ω/M'	.427	10.85							100	78%	12.5	41	22	72.2								
CM				Chart 5	500	152.4	45.5	20.7	78.7Ω/km	7.9Ω/km																						
CEC:			(Tech Info	1000	304.8	90.0	40.9																									
CM			Section)																													
NEC:			12.5 (12 pairs + 1 single)	See	100	30.5	9.2	4.2	24.0Ω/M'	2.4Ω/M'	.440	11.18													100	78%	12.5	41	22	72.2		
CM				Chart 5	500	152.4	51.0	23.3	78.7Ω/km	7.9Ω/km																						
CEC:	(Tech Info			1000	304.8	101.0	45.9																									
CM	Section)																															
NEC:	15			See	500	152.4	63.5	28.9	24.0Ω/M'	2.6Ω/M'	.495	12.57	100	78%	12.5	41	22	72.2														
CM				Chart 5	1000	304.8	116.0	52.7	78.7Ω/km	8.5Ω/km																						
CEC:		(Tech Info																														
CM		Section)																														
NEC:		18		See	100	30.5	13.3	6.0	24.0Ω/M'	2.1Ω/M'	.537	13.64							100	78%	12.5	41	22	72.2								
CM				Chart 5	500	152.4	70.5	32.0	78.7Ω/km	6.9Ω/km																						
CEC:			(Tech Info	1000	304.8	144.0	65.5																									
CM			Section)																													
NEC:			25	See	100	30.5	20.7	9.4	24.0Ω/M'	2.0Ω/M'	.632	16.05													100	78%	12.5	41	22	72.2		
CM				Chart 5	500	152.4	98.0	44.5	78.7Ω/km	6.6Ω/km																						
CEC:	(Tech Info			1000	304.8	191.0	86.8																									
CM	Section)																															

†24 AWG stranded TC drain wire.

†24 AWG stranded TC drain wire.

DCR = DC Resistance • TC = Tinned Copper

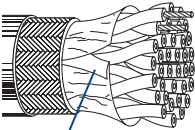
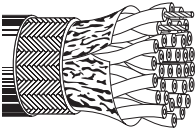
*Capacitance between conductors.

**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.

Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 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
22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage)																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C)  Z-Fold®	8302	NEC:	2	See	100	30.5	4.5	2.0	15.0Ω/M'	5.7Ω/M'	.260	6.60	70	60%	40	131	72	236
		CMG:		Chart 3	500	152.4	19.0	8.6	49.2Ω/km	18.7Ω/km								
	CEC:	(Tech Info Section)	1000	304.8	41.0	18.6												
	CMG FT4																	
	8303	NEC:	3	See	100	30.5	5.2	2.4	15.0Ω/M'	6.2Ω/M'	.270	6.86	70	60%	35	115	63	207
		CMG:		Chart 3	500	152.4	25.5	11.6	49.2Ω/km	20.3Ω/km								
	CEC:	(Tech Info Section)	1000	304.8	48.0	21.8												
	CMG FT4																	
8304	NEC:	4	See	100	30.5	6.7	3.0	15.0Ω/M'	4.9Ω/M'	.320	8.13	70	60%	35	115	63	207	
	CMG:		Chart 3	500	152.4	32.5	14.7	49.2Ω/km	16.1Ω/km									
CEC:	(Tech Info Section)	1000	304.8	65.0	29.5													
CMG FT4																		
8305	NEC:	5	See	100	30.5	7.2	3.3	15.0Ω/M'	4.8Ω/M'	.322	8.18	70	60%	35	115	63	207	
	CMG:		Chart 3	500	152.4	35.0	15.9	49.2Ω/km	15.7Ω/km									
CEC:	(Tech Info Section)	1000	304.8	67.0	30.4													
CMG FT4																		
8306	NEC:	6	See	100	30.5	8.0	3.6	15.0Ω/M'	5.0Ω/M'	.348	8.84	70	60%	35	115	63	207	
	CMG:		Chart 3	500	152.4	39.5	18.0	49.2Ω/km	16.4Ω/km									
CEC:	(Tech Info Section)	1000	304.8	79.0	35.8													
CMG FT4																		
8307	NEC:	7	See	100	30.5	8.6	3.9	15.0Ω/M'	5.0Ω/M'	.348	8.84	70	60%	35	115	63	207	
	CMG:		Chart 3	500	152.4	42.0	19.0	49.2Ω/km	16.4Ω/km									
CEC:	(Tech Info Section)	1000	304.8	85.0	38.6													
CMG FT4																		
8308	NEC:	8	See	100	30.5	10.4	4.7	15.0Ω/M'	4.4Ω/M'	.384	9.75	70	60%	35	115	63	207	
	CMG:		Chart 3	500	152.4	50.0	22.7	49.2Ω/km	14.4Ω/km									
CEC:	(Tech Info Section)	1000	304.8	101.0	46.0													
CMG FT4																		
UL AWM Style 2464 (300V 80°C) 	8310	NEC:	10	See	100	30.5	11.1	5.0	15.0Ω/M'	4.1Ω/M'	.440	11.18	70	60%	35	115	63	207
		CMG:		Chart 3	500	152.4	60.5	27.4	49.2Ω/km	13.4Ω/km								
	CEC:	(Tech Info Section)	1000	304.8	121.0	54.9												
	CMG FT4																	
	8312	NEC:	12	See	100	30.5	12.9	5.9	15.0Ω/M'	4.2Ω/M'	.455	11.56	70	60%	35	115	63	207
		CMG:		Chart 3	500	152.4	72.0	32.8	49.2Ω/km	13.8Ω/km								
	CEC:	(Tech Info Section)	1000	304.8	140.0	63.8												
	CMG FT4																	
8315	NEC:	15	See	100	30.5	15.7	7.1	15.0Ω/M'	3.8Ω/M'	.502	12.75	70	60%	35	115	63	207	
	CMG:		Chart 3	500	152.4	85.5	39.0	49.2Ω/km	12.5Ω/km									
CEC:	(Tech Info Section)	1000	304.8	167.0	76.1													
CMG FT4																		
8318	NEC:	18	See	100	30.5	17.7	8.0	15.0Ω/M'	3.0Ω/M'	.535	13.59	70	60%	35	115	63	207	
	CMG:		Chart 3	500	152.4	97.5	44.2	49.2Ω/km	9.8Ω/km									
CEC:	(Tech Info Section)	1000	304.8	196.0	89.1													
CMG FT4																		
8325	NEC:	25	See	100	30.5	23.1	10.5	15.0Ω/M'	2.9Ω/M'	.620	15.75	70	60%	35	115	63	207	
	CMG:		Chart 3	500	152.4	126.0	57.4	49.2Ω/km	9.5Ω/km									
CEC:	(Tech Info Section)	1000	304.8	246.0	112.1													
CMG FT4																		

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

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

Overall Foil/Braid Shield

Computer P.O.S. 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 Solid TC Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (90% Coverage) • TC Drain Wire

Polyethylene Insulation • Black PVC Jacket

UL AWM Style 2582 (150V 60°C)	1268A	NEC: CM CEC: CM	2	Red & Blue, Black & Yellow	1000	304.8	48.0	21.8	16.5Ω/M' 54.1Ω/km	3.7Ω/M' 12.1Ω/km	.270	6.86	100	66%	15.5	50.9	27.5	90.2
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For Plenum version of 1268A,
see 1269A.

Plenum • Solid FEP Insulation • Black FEP Jacket

300V RMS, Non-conduit	1269A	NEC: MPP, CMP CEC: MPP, CMP FT6	2	Red & Blue, Black & Yellow	1000†	304.8	48.0	21.8	16.5Ω/M' 54.1Ω/km	2.1Ω/M' 6.9Ω/km	.240	6.10	100	69.5%	15.5	50.9	27.0	88.6
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22 AWG Solid TC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (58% Coverage) • TC Drain Wire

Polyethylene Insulation • Black PVC Jacket

UL AWM Style 2582 (150V 60°C)	9855	NEC: CM CEC: CM	2	Red & Blue, Black & Yellow	U-500 500 1000 10000††	U-152.4 152.4 304.8 3048.0	20.0 18.5 40.0 410.0	9.1 8.4 18.2 186.4	16.5Ω/M' 54.1Ω/km	4.2Ω/M' 13.8Ω/km	.270	6.86	100	66%	15.5	50.9	27.5	90.2
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For Plenum version of 9855,
see 98855.

22 AWG Solid TC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (55% Coverage) + Polyester Tape • Drain Wire

Plenum • Solid FEP Insulation • Black FEP Jacket

300V RMS, Non-conduit	89855	NEC: MPP, CMP CEC: MPP, CMP FT6	2	1 Pair: Red & Blue 1 Pair: Black & Yellow	500† 1000†	152.4 304.8	22.5 42.0	10.2 19.1	16.5Ω/M' 54.1Ω/km	4.9Ω/M' 16.1Ω/km	.272	6.91	100	69.5%	15.5	50.9	27.0	88.6
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22 AWG Solid BC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (58% Coverage) • TC Drain Wire

Polyethylene Insulation • Black PVC Jacket

UL AWM Style 2919 (30V 80°C)	9696	NEC: CM CEC: CM	2	1 Pair: Blue & White w/Blue Stripe 1 Pair: Orange & White w/Orange Stripe	500 1000	152.4 304.8	23.5 44.0	10.7 20.0	14.2Ω/M' 46.6Ω/km	4.2Ω/M' 13.8Ω/km	.290	7.37	100	66%	16.0	52.5	27.5	90.2
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For Plenum version of 9696,
see 89696.

22 AWG Solid BC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (55% Coverage) • TC Drain Wire

Plenum • Solid FEP Insulation • Black FEP Jacket

300V RMS, Non-conduit	89696	NEC: MPP, CMP CEC: MPP, CMP FT6	2	1 Pair: Blue & White w/Blue Stripe 1 Pair: Orange & White w/Orange Stripe	500† 1000†	152.4 304.8	25.0 46.0	11.4 20.9	16.5Ω/M' 54.1Ω/km	4.2Ω/M' 13.8Ω/km	.262	6.65	100	69.5%	15.5	50.9	27.0	88.6
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BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

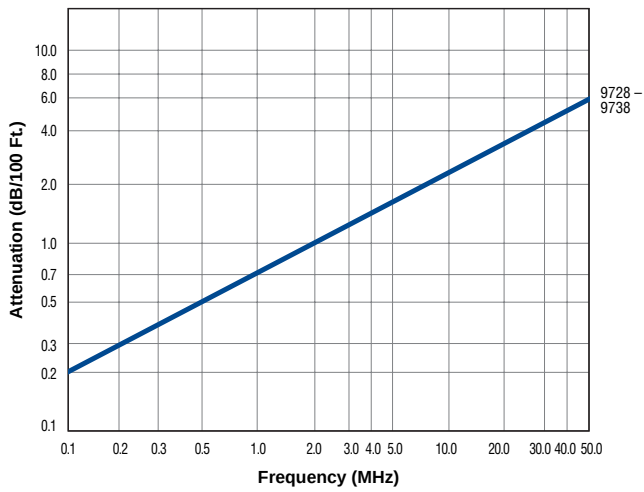
**Capacitance between one conductor and other conductors connected to shield.

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

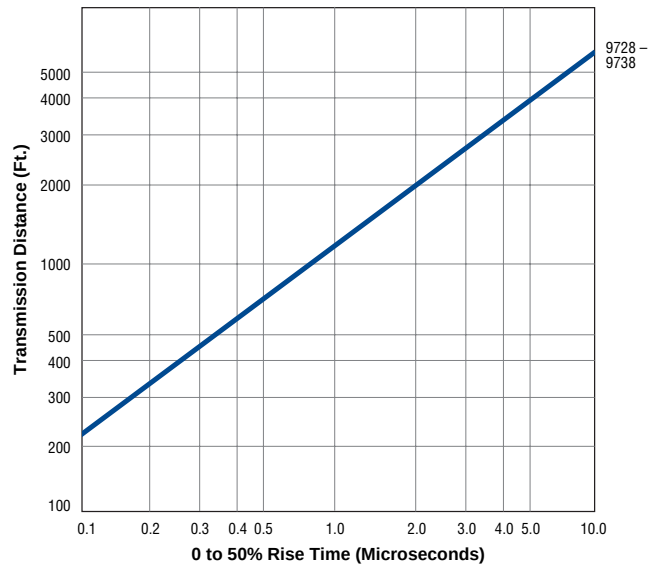
†† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.

Individually Shielded Cable Characteristics

Attenuation

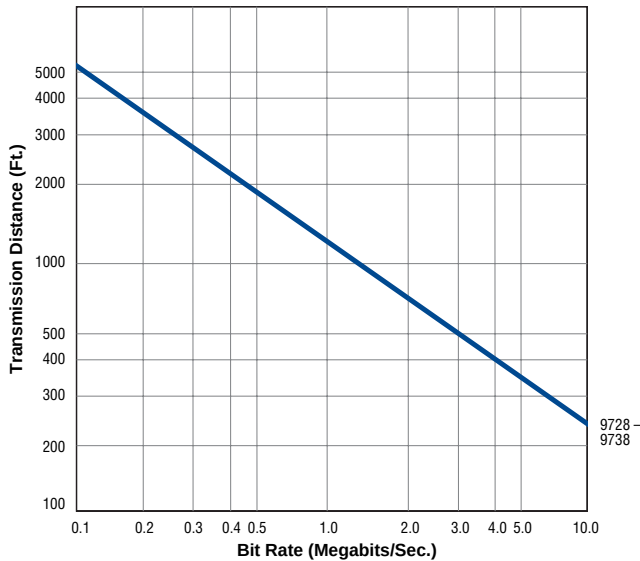


Rise Time



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

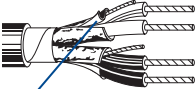
Bit Rate



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

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				
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire																						
Datalene® Insulation • Chrome PVC Jacket																						
 Z-Fold®	9729	NEC:	2	See	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		Chart 3	500	152.4	20.5	9.3	78.7Ω/km	49.2Ω/km												
	CEC:	(Tech Info	1000	304.8	39.0	17.7			For Plenum version of 9729, see 89729 or 82729.													
	CM	Section)	10000†	3048.0	390.0	177.8																
	9730	NEC:	3	See	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		Chart 3	500	152.4	24.5	11.1	78.7Ω/km	49.2Ω/km												
		CEC:		(Tech Info	1000	304.8	46.0	20.9											For Plenum version of 9730, see 89730.			
		CM		Section)	10000†	3048.0	520.0	236.4														
	9728	NEC:	4	See	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		Chart 3	500	152.4	29.0	13.2	78.7Ω/km	49.2Ω/km												
CEC:		(Tech Info		1000	304.8	51.0	23.1			For Plenum version of 9728, see 89728.												
CM		Section)																				
9731	NEC:	6	See	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		Chart 3	500	152.4	42.0	19.1	78.7Ω/km	49.2Ω/km													
	CEC:		(Tech Info	1000	304.8	83.0	37.7											For Plenum version of 9731, see 89731.				
	CM		Section)																			
9732	NEC:	9	See	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		Chart 3	500	152.4	57.0	26.0	78.7Ω/km	49.2Ω/km													
	CEC:		(Tech Info	1000	304.8	106.0	48.1											For Plenum version of 9732, see 89732.				
	CM		Section)																			
9733	NEC:	11	See	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		Chart 3					78.7Ω/km	49.2Ω/km													
	CEC:		(Tech Info																			
	CM		Section)																			
9734	NEC:	12	See	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		Chart 3	1000	304.8	154.0	70.0	78.7Ω/km	49.2Ω/km													
	CEC:		(Tech Info																			
	CM		Section)																			
9735	NEC:	15	See	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		Chart 3	1000	304.8	185.0	84.1	78.7Ω/km	49.2Ω/km													
	CEC:		(Tech Info																			
	CM		Section)																			
9736	NEC:	17	See	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		Chart 3	1000	304.8	210.0	95.5	78.7Ω/km	49.2Ω/km													
	CEC:		(Tech Info																			
	CM		Section)																			
9737	NEC:	19	See	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		Chart 3					78.7Ω/km	49.2Ω/km													
	CEC:		(Tech Info																			
	CM		Section)																			
9738	NEC:	27	See	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		Chart 3					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.

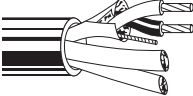
Individually Shielded

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

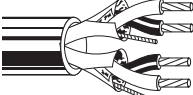
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

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	89729	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
		89730	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
		89728	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
		89731	NEC: CMP CEC: CMP FT6	6	See Chart 5 (Tech Info Section)	500 1000†	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
		89732	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	82729	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

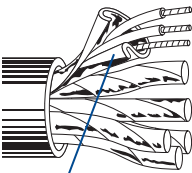
*Capacitance between conductors.

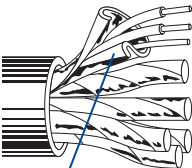
**Capacitance between one conductor and other conductors connected to shield.

† 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
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
 Z-Fold®	9990	NEC: CM CEC: CM	3	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	16.0 36.0	7.3 16.4	24.0Ω/M' 78.7Ω/km	18.0Ω/M' 59.1Ω/km	.255 6.48	60	66%	25	82	47	154	
	9991	NEC: CM CEC: CM	6	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.7 32.5 62.0	3.1 14.7 28.3	24.0Ω/M' 78.7Ω/km	18.0Ω/M' 59.1Ω/km	.330 8.38	60	66%	25	82	47	154	
	9992	NEC: CM CEC: CM	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.8 42.5 86.0	4.0 19.3 39.1	24.0Ω/M' 78.7Ω/km	18.0Ω/M' 59.1Ω/km	.383 9.73	60	66%	25	82	47	154	
	9993	NEC: CM CEC: CM	12	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.8 107.0 228.0	4.5 48.6 103.6	24.0Ω/M' 78.7Ω/km	18.0Ω/M' 59.1Ω/km	.428 10.87	60	66%	25	82	47	154	
	9995	NEC: CM CEC: CM	25	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	21.2 116.0 228.0	9.7 52.7 103.6	24.0Ω/M' 78.7Ω/km	18.0Ω/M' 59.1Ω/km	.636 16.15	60	66%	25	82	47	154	

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 Conductors • TC • Twisted Pairs • Individually Shielded w/ Beldfoil (100% Coverage) • 22 AWG Solid TC Drain Wire																		
PVC Insulation • Overall Chrome PVC Jacket																		
 Z-Fold®	8767	NEC: MPG, CMG CEC: MPG, CMG FT4	3	See Chart 3 (Tech Info Section)	U-500 500 1000	U-152.4 152.4 304.8	22.5 23.0 46.0	10.3 10.5 21.0	.013 .33	.037 .94	.279 7.10	40	131	77	253			
	8768	NEC: MPG, CMG CEC: MPG, CMG FT4	6	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	46.5 92.0	21.1 41.8	.013 .33	.037 .94	.379 9.60	40	131	77	253			
	8764	NEC: MPG, CMG CEC: MPG, CMG FT4	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			
	8765	NEC: MPG, CMG CEC: MPG, CMG FT4	11	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	76.5 149.0	34.8 67.7	.013 .33	.040 1.02	.470 11.90	40	131	77	253			
	8766	NEC: MPG, CMG CEC: MPG, CMG FT4	15	See Chart 3 (Tech Info Section)	500 1000	152.4 304.8	101.5 196.0	46.1 89.1	.013 .33	.045 1.14	.525 13.30	40	131	77	253			

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

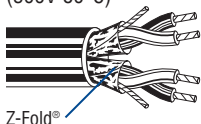
Plenum-Rated and Non-Plenum

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)

UL AWM Style 2464 (300V 80°C)	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
		CMG			U-500	U-152.4	16.5	7.5	49.2Ω/km	42.7Ω/km	x	x						
		CEC:			500	152.4	17.0	7.7			.280	7.11						
		CMG FT4			U-1000	U-304.8	32.0	14.5										
					1000	304.8	33.0	15.0										

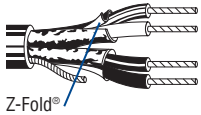


Z-Fold®

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)

300V RMS 60°C	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
		CM			U-500	U-152.4	10.5	4.8	49.2Ω/km	54.5Ω/km								
		CEC:			500	152.4	10.0	4.5										
		CM			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										



Z-Fold®

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)

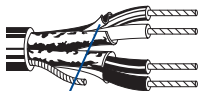
300V RMS 60°C	8723SB	NEC:	2	Red & Black,	1000	304.8	26.0	11.8	14.7Ω/M'	15.0Ω/M'	.196	4.98	45	66%	35	115	62	203
		CMG-LS							48.2Ω/km	49.2Ω/km								
		CEC:																
		CMG-LS FT4 Limited Smoke																



Z-Fold®

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

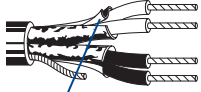
300V RMS, Non-conduit	82723	NEC:	2	Red & Black,	U-500†	U-152.4	10.5	4.8	14.7Ω/M'	16.6Ω/M'	.153	3.89	36	62%	43	141	75	246
		CMP			U-1000	U-304.8	20.0	9.1	48.2Ω/km	54.5Ω/km								
		CEC:			1000†	304.8	19.0	8.6										
		CMP FT6			U-2000†	U-609.6	40.0	18.1										



Z-Fold®

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

300V RMS, Non-conduit	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
		CMP			500†	152.4	11.0	5.0	52.5Ω/km	48.2Ω/km								
		CEC:			1000†	304.8	19.0	8.6										
		CMP FT6																



Z-Fold®

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

300V RMS, Non-conduit	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
		CMP			1000†	304.8	20.0	9.1	48.2Ω/km	49.2Ω/km								
		CEC:																
		CMP FT6																



Z-Fold®

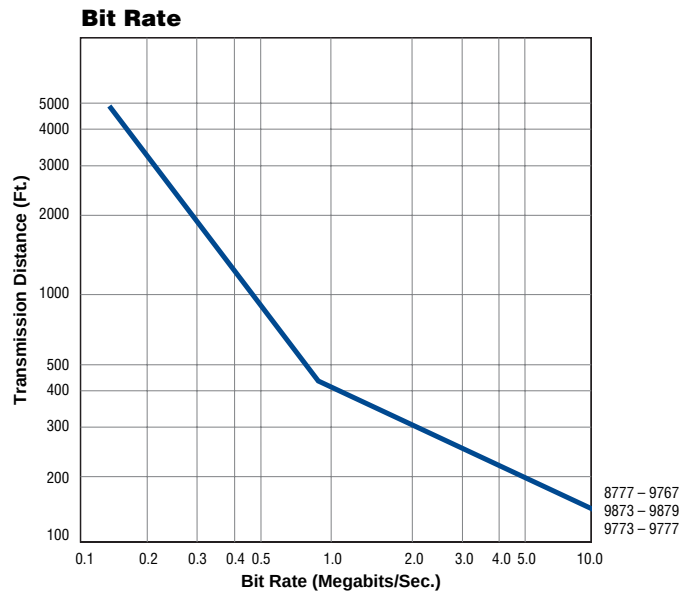
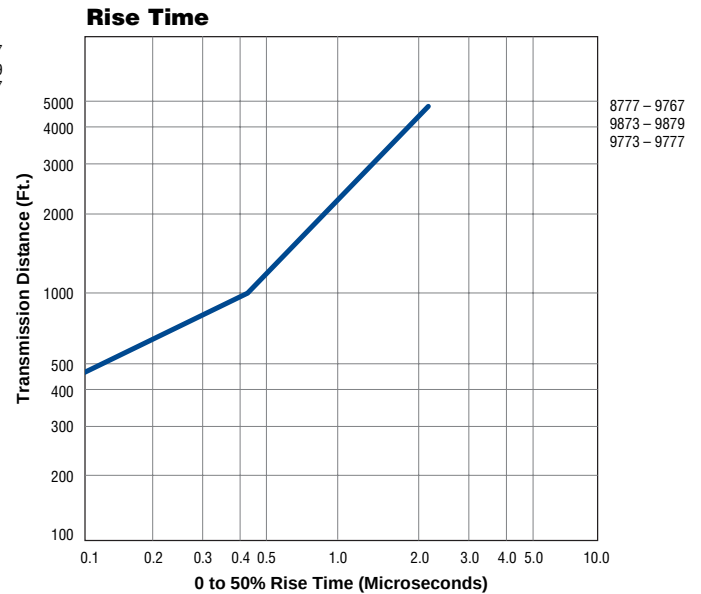
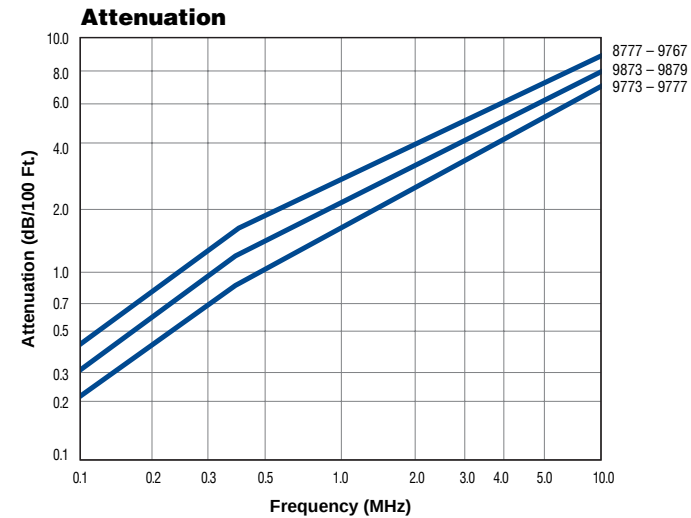
DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*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.

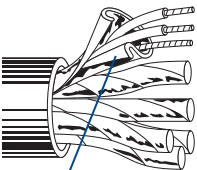
Insulation resistance between shields:
100 megohms/M' nom.

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

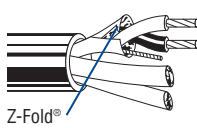
Working voltage between adjacent shields:
50 volts max.

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

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

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

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.

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

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

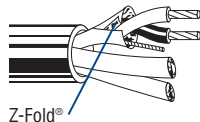
Individually Shielded

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

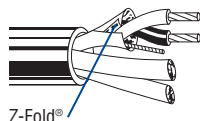
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

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

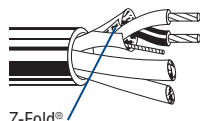
Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS 	82777	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	U-500†	U-152.4	19.5	8.9	14.7Ω/M'	11.3Ω/M'	.237	6.02	46	62%	35	115	76	249
					U-1000	U-304.8	38.0	17.3	48.2Ω/km	37.1Ω/km								
	82778	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	1000†	304.8	71.0	32.2	14.7Ω/M'	11.3Ω/M'	.314	7.98	46	62%	35	115	76	249
									48.2Ω/km	37.1Ω/km								

Plenum • FEP Insulation • Red FEP Jacket

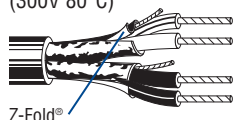
300V RMS 	88777	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	100	30.5	6.0	2.7	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220
					500†	152.4	19.0	8.6	48.2Ω/km	37.1Ω/km								
	88778	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	100	30.5	7.0	3.2	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220
					500†	152.4	38.5	17.4	48.2Ω/km	37.1Ω/km								
					1000†	304.8	75.0	34.1										

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

300V RMS 	87777	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	500†	152.4	18.0	8.2	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220
					1000†	304.8	40.0	18.2	48.2Ω/km	37.1Ω/km								
	87778	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	500†	152.4	37.5	17.0	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220
					1000†	304.8	73.0	33.2	48.2Ω/km	37.1Ω/km								

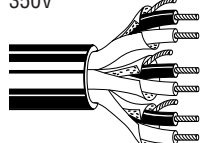
20 AWG Stranded (7x28) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 22 AWG Stranded TC Drain Wire

Semi-rigid PVC Insulation • Overall Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C) 	9402	NEC: CMG CEC: CMG FT4	2	Red & Black, Green & White	U-500	U-152.4	26.0	11.8	—	—	.300	7.62	—	—	55	180	95	312
					1000	304.8	52.0	23.7										

20 AWG Stranded (10x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 22 AWG Stranded TC Drain Wire

Polypropylene Insulation • Black High-density Polyethylene Jacket

350V 	9883		3	See Chart 3 (Tech Info Section)	500	152.4	28.5	12.9	6.4Ω/M'	11.2Ω/M'	.340	8.64	50	66%	30	98	55	180
					1000	304.8	57.0	25.9	21.0Ω/km	36.8Ω/km								
	9886		6	See Chart 3 (Tech Info Section)	500	152.4	56.0	25.4	6.4Ω/M'	11.2Ω/M'	.455	11.56	50	66%	30	98	55	180
					1000	304.8	108.0	49.0	21.0Ω/km	36.8Ω/km								

DCR = DC Resistance • TC = Tinned Copper

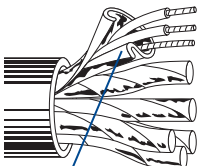
*Capacitance between conductors.

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

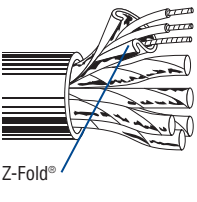
†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

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

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

DCR = DC Resistance • TC = Tinned Copper

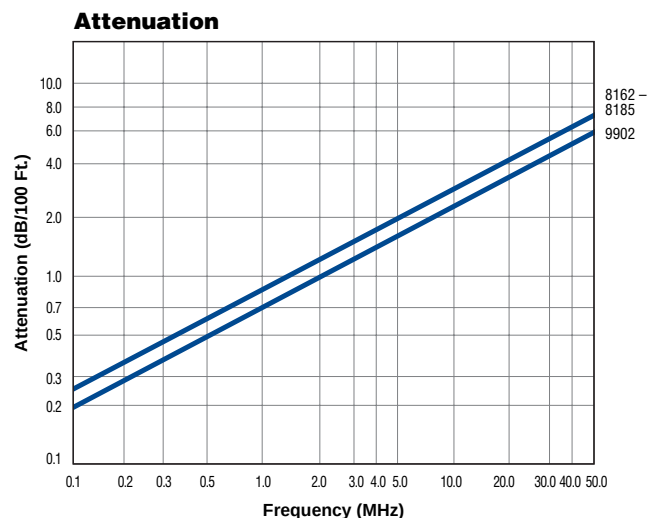
*Capacitance between conductors.

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

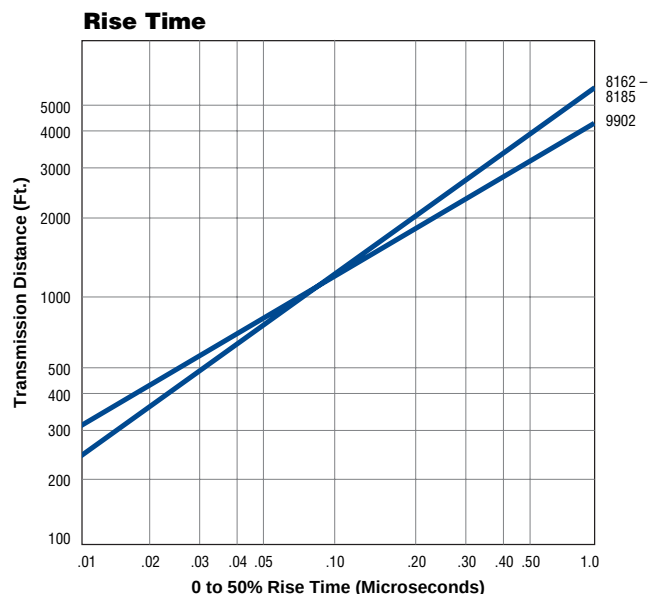
See Attenuation, Rise Time and Bit Rate data for this series on page 5.39.

Individually Shielded Pairs with Overall Foil/Braid Shield

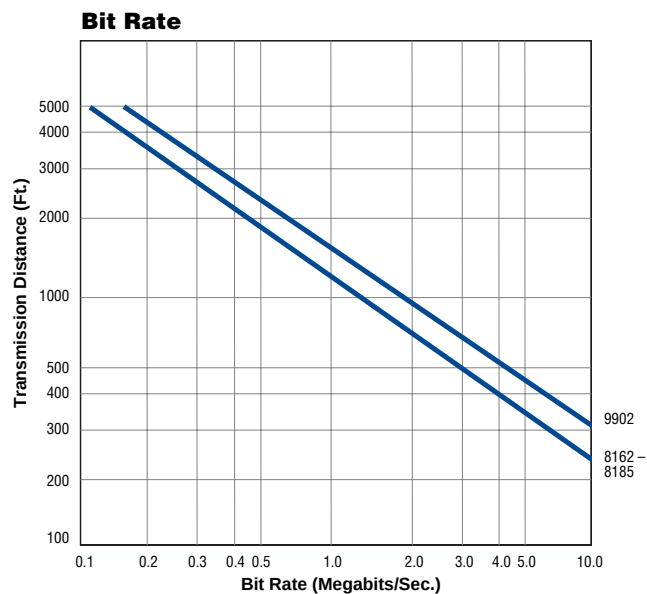
Cable Characteristics



Note: see index for 9902 page number.



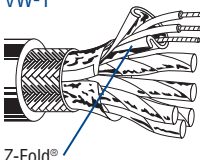
Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 ohms and 10% to 90% rise time less than 5 nanoseconds.



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
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs Individually Beldfoil® Shielded + Overall Beldfoil (100% Coverage) + TC Braid Shield (65%) • Drain Wire▲																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (60°C) VW-1  Z-Fold®	8162	NEC: CM	2	See Chart 3 (Tech Info Section)	100	30.5	6.2	2.8	24.0Ω/M'	Individual:	.343	8.71	100	78%	12.5	41	22	72.2
		CEC: CM			500	152.4	30.0	13.6	78.7Ω/km	18.0Ω/M'								
					1000	304.8	57.0	25.9		59.1Ω/km								
										Overall:								
										4.3Ω/M'								
										14.1Ω/km								
	8163	NEC: CM	3	See Chart 3 (Tech Info Section)	100	30.5	7.0	3.2	24.0Ω/M'	Individual:	.359	9.12	100	78%	12.5	41	22	72.2
		CEC: CM			500	152.4	34.0	15.5	78.7Ω/km	18.0Ω/M'								
					1000	304.8	66.0	30.0		59.1Ω/km								
										Overall:								
										4.4Ω/M'								
										14.4Ω/km								
	8164	NEC: CM	4	See Chart 3 (Tech Info Section)	100	30.5	8.2	3.7	24.0Ω/M'	Individual:	.388	9.86	100	78%	12.5	41	22	72.2
		CEC: CM			500	152.4	39.5	18.0	78.7Ω/km	18.0Ω/M'								
					1000	304.8	79.0	35.9		59.1Ω/km								
										Overall:								
										3.2Ω/M'								
										10.5Ω/km								
	8165	NEC: CM	5	See Chart 3 (Tech Info Section)	100	30.5	9.0	4.1	24.0Ω/M'	Individual:	.413	10.49	100	78%	12.5	41	22	72.2
		CEC: CM			500	152.4	45.0	20.5	78.7Ω/km	18.0Ω/M'								
					1000	304.8	89.0	40.5		59.1Ω/km								
										Overall:								
										3.4Ω/M'								
										11.2Ω/km								
	8166	NEC: CM	6	See Chart 3 (Tech Info Section)	100	30.5	9.0	4.1	24.0Ω/M'	Individual:	.446	11.33	100	78%	12.5	41	22	72.2
		CEC: CM			500	152.4	50.0	22.7	78.7Ω/km	18.0Ω/M'								
					1000	304.8	99.0	45.0		59.1Ω/km								
										Overall:								
										2.8Ω/M'								
										9.2Ω/km								
	8167	NEC: CM	7	See Chart 3 (Tech Info Section)	500	152.4	52.5	23.9	24.0Ω/M'	Individual:	.446	11.33	100	78%	12.5	41	22	72.2
		CEC: CM			1000	304.8	103.0	46.7	78.7Ω/km	18.0Ω/M'								
										59.1Ω/km								
										Overall:								
										2.8Ω/M'								
										9.2Ω/km								

▲24 AWG stranded TC drain wire

[▲]24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

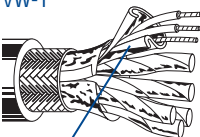
*Capacitance between conductors.

**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
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs Individually Beldfoil® Shielded + Overall Beldfoil (100% Coverage) + TC Braid Shield (65%) • Drain Wire [▲]																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (60°C) VW-1  Z-Fold®	8168	NEC: CM CEC: CM	8	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.8 61.5 115.0	4.9 28.0 52.3	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 3.0Ω/M' 9.8Ω/km	.479 12.17	100	78%	12.5	41	22	72.2	
	8170	NEC: CM CEC: CM	10	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	18.0 83.0 164.0	8.2 37.7 74.5	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 2.7Ω/M' 8.9Ω/km	.584 14.83	100	78%	12.5	41	22	72.2	
	8175	NEC: CM CEC: CM	15	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	22.6 107.5 210.0	10.3 48.9 95.5	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 2.5Ω/M' 8.2Ω/km	.665 16.89	100	78%	12.5	41	22	72.2	
	8178	NEC: CM CEC: CM	18	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	24.6 117.0 238.0	11.2 53.2 108.2	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 2.6Ω/M' 8.5Ω/km	.686 17.42	100	78%	12.5	41	22	72.2	
	8185	NEC: CM CEC: CM	25	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	32.3 160.5 356.0	14.7 73.0 161.8	24.0Ω/M' 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 2.4Ω/M' 7.9Ω/km	.822 20.88	100	78%	12.5	41	22	72.2	

▲24 AWG stranded TC drain wire

[▲]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.

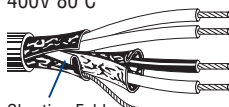
Combination Shields

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)

 400V 80°C Shorting Fold	8434		2	Shielded: Red & Black Unshielded: Green & White	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.

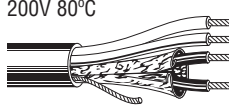
22 AWG Stranded (7x30) Tinned Copper Conductors • One Pair Beldfoil Shielded (100% Coverage) • Stranded Tinned Copper Drain Wire

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

 300V RMS 90°C	9685	NEC: CM	1.5 (1 pair + 1 single)	Shielded: Black & White Unshielded: Brown	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)

 200V 80°C	8730†		2	Shielded: Red & Black Unshielded: Green & White	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										

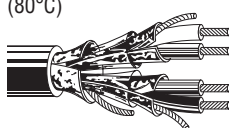
24 AWG drain wire

 300V 80°C VW-1	8724†	NEC: CM CEC: CM	2	Shielded: Red & Black Unshielded: Green & White	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										

24 AWG drain wire

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)

 UL AWM Style 2717 (80°C)	8728	NEC: CM CEC: CM	2	Black & Red Green & White	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

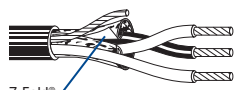
Special Audio, Communication and Instrumentation Cables

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

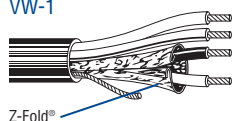
350V 80°C	8763	—	1.5 (1 pair + 1 single)	Shielded: Black & Red Unshielded: Clear	1000	304.8	25.0	11.4	.014	.36	.028	.71	.210	5.33	26	85	48	157
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Beldfoil shield over Red and Black pair only. Clear conductor is unshielded. 20 AWG drain wire.

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

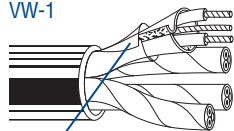
350V 80°C	8722	NEC:	2	Shielded:	U-500	U-152.4	18.0	8.2	.015	.38	.028	.71	.226	5.74	60	197	99	325
VW-1		CMG		Red & Black	500	152.4	18.5	8.4										
		CEC:		Black	U-1000	U-304.8	35.0	15.9										
		CMG FT4		Unshielded: Green & White	1000	304.8	36.0	16.4										



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	8725	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	1000	304.8	74.0	33.6										
		CEC:		& White;														
		CM		White/Red & White/Black;														
				White/Green & White/Yellow														



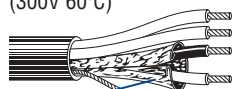
Shorting Fold

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)	9155	NEC:	2		500	152.4	22.5	10.2	.020	.51	.031	.79	.262	6.65	24	79	46	151
		CM	1 Shld	Black &	U-1000	U-304.8	46.0	20.9										
		CEC:	20 (7x28)	Red	1000	304.8	48.0	21.8										
		CM	1 Unshld	Green &					.019	.48					22	72		
			18 (16x30)	White														



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

	300V RMS	88442	NEC: CMP CEC: CMP FT6	1	Black & Red	100	30.5	2.3	1.0	.006	.15	.012	.30	.102	2.59
						500†	152.4	5.5	2.5						
						1000†	304.8	8.0	3.6						
		88741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	500†	152.4	8.0	3.6	.006	.15	.012	.30	.169	4.29
						1000†	304.8	16.0	7.3						
		88757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	500†	152.4	14.0	6.4	.006	.15	.012	.30	.200	5.08
						1000†	304.8	28.0	12.7						

Plenum • FEP Insulation • Natural Flamarrest® Jacket

	300V RMS	82442	NEC: CMP CEC: CMP FT6	1	Black & Red	U-1000†	U-304.8	9.0	4.1	.006	.15	.014	.36	.112	2.84
						1000†	304.8	8.0	3.6						
		82741	NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	U-1000†	U-304.8	18.0	8.2	.006	.15	.014	.36	.179	4.55
						1000†	304.8	20.0	9.1						
		82742	NEC: CMP CEC: CMP FT6	3	Black & Red, Black & White, Black & Green	U-1000†	U-304.8	24.0	10.9	.006	.15	.014	.36	.191	4.85
						1000†	304.8	26.0	11.8						
		82757	NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	1000	304.8	32.0	14.5	.006	.15	.014	.36	.210	5.33
		82743	NEC: CMP CEC: CMP FT6	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
						1000	304.8	46.0	20.9						

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	.15	.009	.23	.136	3.45
						500†	152.4	9.0	4.1						
						1000†	304.8	15.0	6.8						

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

	300V RMS	87740	NEC: CMP CEC: CMP FT6	1	Black & Red	500†	152.4	9.0	4.1	.006	.15	.011	.28	.140	3.56
						1000†	304.8	17.0	7.7						

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	.15	.015	.38	.147	3.73
						1000	304.8	16.0	7.3						

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

Plenum-Rated

Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

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) Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire**Plenum • FEP Insulation • Red FEP Jacket**

	300V RMS	88641	NEC: CMP CEC: CMP FT6	1	Black & Red	100 500† 1000†	30.5 152.4 304.8	2.4 6.0 9.0	1.1 2.7 4.1	.006 .15 .15	.014 .36 .36	.106 2.69 2.69	31 102 102	59 194 194
		89503	NEC: CMP CEC: CMP FT6	3	Black & White, Black & Red, Black & Green	100 500† 1000†	30.5 152.4 304.8	4.0 10.5 21.0	1.8 4.8 9.5	.006 .15 .15	.014 .36 .36	.175 4.45 4.45	21 69 69	40 131 131
		89504	NEC: CMP CEC: CMP FT6	4	Black & White, Black & Red, Black & Green, Black & Blue	500† 1000†	152.4 304.8	13.0 29.0	5.9 13.2	.006 .15 .15	.014 .36 .36	.192 4.88 4.88	21 69 69	40 131 131
		89505	NEC: CMP CEC: CMP FT6	5	Black & White, Black & Red, Black & Green, Black & Blue, Black & Yellow	100 500† 1000†	30.5 152.4 304.8	4.9 10.5 21.0	2.2 4.8 9.5	.006 .15 .15	.014 .36 .36	.197 5.00 5.00	21 69 69	40 131 131

Plenum • FEP Insulation • Natural Flamarrest® Jacket

	300V RMS	82641	NEC: CMP CEC: CMP FT6	1	Black & Red	U-1000 1000	U-304.8 304.8	9.0 8.0	4.1 3.6	.006 .15 .15	.014 .36 .36	.106 2.69 2.69	31 102 102	59 194 194
		82502	NEC: CMP CEC: CMP FT6	2	Black & White, Black & Red	U-500 U-1000 1000	U-152.4 U-304.8 304.8	8.0 16.0 14.0	3.6 7.3 6.4	.006 .15 .15	.014 .36 .36	.162 4.11 4.11	25 82 82	45 148 148
		82503	NEC: CMP CEC: CMP FT6	3	Black & White, Black & Red, Black & Green	U-1000 1000	U-304.8 304.8	19.0 18.0	8.6 8.2	.006 .15 .15	.014 .36 .36	.169 4.29 4.29	25 82 82	45 148 148
		82504	NEC: CMP CEC: CMP FT6	4	Black & White, Black & Red, Black & Green, Black & Blue	U-1000 1000	U-304.8 304.8	24.0 26.0	10.9 11.8	.006 .15 .15	.014 .36 .36	.193 4.90 4.90	25 82 82	45 148 148
		82505	NEC: CMP CEC: CMP FT6	5	See Chart 3 (Tech Info Section)	U-1000 1000	U-304.8 304.8	29.0 31.0	13.2 14.0	.006 .15 .15	.015 .38 .38	.196 4.98 4.98	25 82 82	45 148 148
		82506	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	U-500 U-1000 1000	U-152.4 U-304.8 304.8	17.5 34.0 35.0	8.0 15.5 15.9	.006 .15 .15	.015 .38 .38	.209 5.31 5.31	25 82 82	45 148 148
		82509	NEC: CMP CEC: CMP FT6	9	See Chart 3 (Tech Info Section)	1000	304.8	49.0	22.3	.006 .15 .15	.015 .38 .38	.246 6.25 6.25	23 75 75	42 138 138
		82512	NEC: CMP CEC: CMP FT6	12.5 (12 pairs + 1 single)	See Chart 3 (Tech Info Section)	1000	304.8	60.0	27.3	.006 .15 .15	.015 .38 .38	.278 7.06 7.06	23 75 75	42 138 138

TC = Tinned Copper

*Capacitance between conductors.

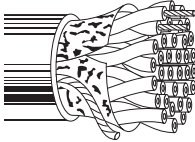
**Capacitance between one conductor and other conductors connected to shield.

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

Plenum-Rated

Overall Beldfoil® Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	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) Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																		
	300V RMS	88102	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	10.0 20.0	4.5 9.1	24.0Ω/M' 78.7Ω/km	15.5Ω/M' 50.9Ω/km	.203 5.16	100	78%	12.95	42.5	23.3	76.4
		88103	NEC: CMP CEC: CMP FT6	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	13.5 31.0	6.1 14.1	24.0Ω/M' 78.7Ω/km	15.5Ω/M' 50.9Ω/km	.239 6.07	100	78%	12.95	42.5	23.3	76.4
		88104	NEC: CMP CEC: CMP FT6	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	17.0 38.0	7.7 17.3	24.0Ω/M' 78.7Ω/km	14.0Ω/M' 45.9Ω/km	.259 6.58	100	78%	12.95	42.5	23.3	76.4
		88105	NEC: CMP CEC: CMP FT6	5	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	23.5 44.0	10.7 20.0	24.0Ω/M' 78.7Ω/km	14.0Ω/M' 45.9Ω/km	.267 6.78	100	78%	12.95	42.5	23.3	76.4
		88106	NEC: CMP CEC: CMP FT6	6	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	26.5 50.0	12.0 22.7	24.0Ω/M' 78.7Ω/km	14.0Ω/M' 45.9Ω/km	.293 7.44	100	78%	12.95	42.5	23.3	76.4
		88107	NEC: CMP CEC: CMP FT6	7.5 (7 pairs + 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	31.0 59.0	14.1 26.8	24.0Ω/M' 78.7Ω/km	14.0Ω/M' 45.9Ω/km	.293 7.44	100	78%	12.95	42.5	23.3	76.4
		88109	NEC: CMP CEC: CMP FT6	9	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	36.5 74.0	16.6 33.6	24.0Ω/M' 78.7Ω/km	13.0Ω/M' 42.7Ω/km	.352 8.94	100	78%	12.95	42.5	23.3	76.4
		88112	NEC: CMP CEC: CMP FT6	12.5 (12 pairs + 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	48.0 97.0	21.8 44.1	24.0Ω/M' 78.7Ω/km	11.8Ω/M' 38.7Ω/km	.397 10.08	100	78%	12.95	42.5	23.3	76.4
		88118	NEC: CMP CEC: CMP FT6	18.5 (18 pairs + 1 single)	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	71.0 148.0	32.2 67.3	24.0Ω/M' 78.7Ω/km	11.0Ω/M' 36.1Ω/km	.482 12.24	100	78%	12.95	42.5	23.3	76.4
		88125	NEC: CMP CEC: CMP FT6	25	See Chart 5 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	98.0 195.0	44.5 88.6	24.0Ω/M' 78.7Ω/km	9.6Ω/M' 31.5Ω/km	.581 14.76	100	78%	12.95	42.5	23.3	76.4

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.

Plenum-Rated

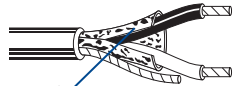
Overall Beldfoil® Shield

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

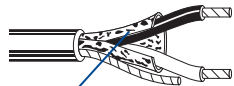
Plenum • FEP Insulation • Red FEP Jacket

300V RMS 	88761	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	5.5										

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

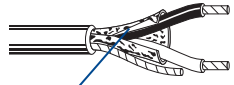
300V RMS 	87761	NEC:	1	Black, Red	500	152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220
		CMP			1000	304.8	11.0	5.0										
		CEC:																
		CMP FT6																

Plenum • FEP Insulation • Natural Flamarrest® Jacket

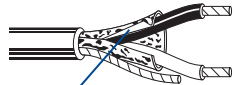
300V RMS 	82761	NEC:	1	Black, Red	U-500	U-152.4	7.0	3.2	.006	.15	.014	.36	.116	2.95	35	115	67	220
		CMP			U-1000	U-304.8	14.0	6.4										
		CEC:			1000	304.8	11.0	5.0										
		CMP FT6																

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

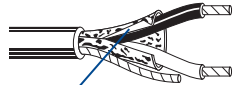
Plenum • FEP Insulation • Red FEP Jacket

300V RMS 	88760	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										
					1000	304.8	22.0	10.0										

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

300V RMS 	87760	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										
		CMP FT6																

Plenum • FEP Insulation • Natural Flamarrest Jacket

300V RMS 	82760	NEC:	1	Black, Red	U-500	U-152.4	12.0	5.5	.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										
		CMP FT6																

TC = Tinned Copper

*Capacitance between conductors.

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

Plenum-Rated

Overall Foil/Braid Shield

Low-Capacitance Computer and Computer P.O.S. 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

Low Cap 24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil® (100% Coverage) + TC Braid Shield (90% Cov.) • Drain Wire

Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

300V RMS 	82841	NEC:	1	See Chart 5 (Tech Info Section)	500	152.4	13.0	6.0	24.0Ω/M'	3.1Ω/M'	.204	5.18	120	76%	12	39.4	22	72.2
		CMP CEC: CMP FT6			1000	304.8	26.0	11.8	78.7Ω/km	10.2Ω/km								

300V RMS 	82842	NEC:	2	See Chart 5 (Tech Info Section)	500	152.4	19.0	8.6	24.0Ω/M'	2.4Ω/M'	.273	6.93	120	76%	12	39.4	22	72.2
		CMP CEC: CMP FT6			1000	304.8	42.0	19.1	78.7Ω/km	7.9Ω/km								

Plenum • Foam FEP Insulation • Red FEP Jacket

300V RMS 	89841	NEC:	1	See Chart 5 (Tech Info Section)	500	152.4	13.5	6.1	24.0Ω/M'	3.1Ω/M'	.202	5.13	120	76%	12	39.4	22	72.2
		CMP CEC: CMP FT6			1000	304.8	27.0	12.3	78.7Ω/km	10.2Ω/km								

300V RMS 	89842 new	NEC:	2	See Chart 5 (Tech Info Section)	500	152.4	25.5	11.6	24.0Ω/M'	3.1Ω/M'	.305	7.75	120	76%	12	39.4	22	72.2
		CMP CEC: CMP FT6			1000	304.8	49.0	22.2	78.7Ω/km	10.2Ω/km								

22 AWG Solid TC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (90% Coverage) • 22 AWG TC Drain Wire

Plenum • Solid FEP Insulation • Black FEP Jacket

300V RMS 	1269A	NEC:	2	Red & Blue, Black & Yellow	1000	304.8	48.0	21.8	16.5Ω/M'	2.1Ω/M'	.240	6.10	100	69.5%	15.5	50.9	27	88.6
		MPP, CMP CEC: MPP, CMP FT6							54.1Ω/km	6.9Ω/km								

22 AWG Solid TC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (55% Cov.) + Polyester Tape • 22 AWG Drain Wire

Plenum • Solid FEP Insulation • Black FEP Jacket

300V RMS 	89855	NEC:	2	1 Pair: Red & Blue	500	152.4	22.5	10.2	16.5Ω/M'	4.9Ω/M'	.272	6.91	100	69.5%	15.5	50.9	27	88.6
		MPP, CMP CEC: MPP, CMP FT6			1000	304.8	42.0	19.1	54.1Ω/km	16.1Ω/km								

22 AWG Solid BC Conductors • Twisted Pairs • Overall Beldfoil (100% Coverage) + TC Braid Shield (55% Coverage) • 22 AWG Solid TC Drain Wire

Plenum • Solid FEP Insulation • Black FEP Jacket

300V RMS 	89696	NEC:	2	1 Pair: Blue & White with Blue Stripe	500	152.4	25.0	11.4	16.5Ω/M'	4.2Ω/M'	.262	6.65	100	69.5%	15.5	50.9	27	88.6
		MPP, CMP CEC: MPP, CMP FT6			1000	304.8	46.0	20.9	54.1Ω/km	13.8Ω/km								

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

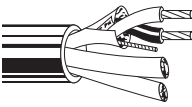
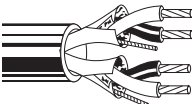
*Capacitance between conductors.

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

Plenum-Rated

Individually Shielded Pairs

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
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	89729	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
		89730	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
		89728	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
		89705	NEC: CMP CEC: CMP FT6	5	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	30.5 62.0	13.9 28.2	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.333 8.50	100	76%	13.5	44	22.5	73.8
		89731	NEC: CMP CEC: CMP FT6	6	See Chart 5 (Tech Info Section)	500 1000	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
		89757	NEC: CMP CEC: CMP FT6	7	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	39.5 80.0	18.0 36.4	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.361 9.17	100	76%	13.5	44	22.5	73.8
		89732	NEC: CMP CEC: CMP FT6	9	See Chart 5 (Tech Info Section)	1000	304.8	108.0	49.2	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.433 10.90	100	76%	13.5	44	22.5	73.8
		89734	NEC: CMP CEC: CMP FT6	12	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	71.0 140.0	32.3 63.6	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.498 12.65	100	76%	13.5	44	22.5	73.8
		89758	NEC: CMP CEC: CMP FT6	18	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	100.5 204.0	45.7 92.7	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.616 15.65	100	76%	13.5	44	22.5	73.8
Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																		
	300V RMS	82729	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

DCR = DC Resistance • 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. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ ft.	* pF/ m	** pF/ ft.	** pF/ m

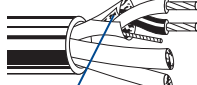
22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire††**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

300V RMS 	82723	NEC:	2	Red & Black, Green & White	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										

Z-Fold®

††82723 has 24 AWG drain wire

Pairs cabled on common axis to reduce diameter.

300V RMS 	82777	NEC:	3	See Chart 3 (Tech Info Section)	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																

Z-Fold®

82778	NEC:	6	See Chart 3 (Tech Info Section)	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

300V RMS 	88723	NEC:	2	Red & Black, Green & White	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																

Z-Fold®

††88723 has 24 AWG drain wire

300V RMS 	88777	NEC:	3	See Chart 3 (Tech Info Section)	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																

Z-Fold®

88778	NEC:	6	See Chart 3 (Tech Info Section)	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																

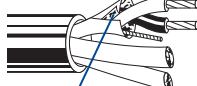
Pairs cabled on common axis to reduce diameter.

Plenum • FEP Insulation • Red Fluorocopolymer Jacket

300V RMS 	87723	NEC:	2	Red & Black, Green & White	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																

Z-Fold®

††87723 has 24 AWG drain wire.

300V RMS 	87777	NEC:	3	See Chart 3 (Tech Info Section)	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																

Z-Fold®

87778	NEC:	6	See Chart 3 (Tech Info Section)	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.