



4 Multi-Conductor Cables

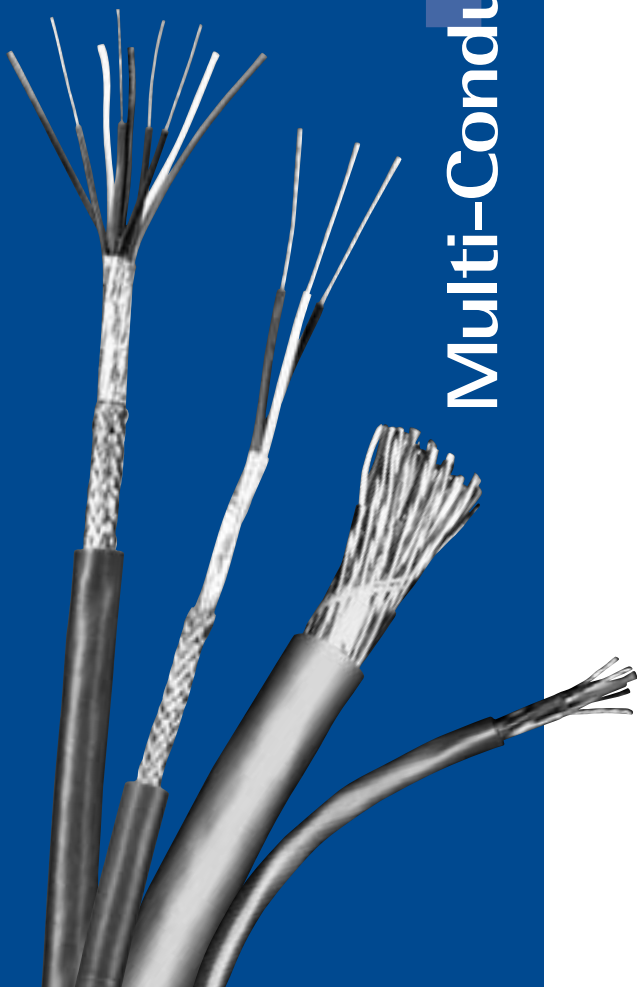


Table of Contents

Multi-Conductor Cables	Page No.
Introduction	4.2
Selection Guide:	
Shielded Computer Cables for RS-232 Applications	4.2
Unshielded	4.3–4.9
Audio, Control and Instrumentation Cables	4.3
22 AWG Non-Plenum & Plenum	4.3
20 AWG Non-Plenum	4.5
18 AWG Non-Plenum & Plenum	4.5
16 AWG Non-Plenum	4.6
14 AWG Non-Plenum	4.7
22 and 18 AWG Non-Plenum	4.7
20 and 16 AWG Non-Plenum	4.7
Antenna Rotor Control Cables	4.8
Duplex Primary Wires	4.8
Power and Control Cables	4.9
Overall Beldfoil® Shield	4.10–4.13
Computer Cables for Synchronous EIA Interface	4.10
Computer Cables for EIA RS-232 Applications	4.11
Audio, Control and Instrumentation Cables	4.12
22 AWG Non-Plenum	4.12
20 AWG Non-Plenum	4.12
18 AWG Non-Plenum & Plenum	4.13
16 AWG Non-Plenum	4.13
Overall Braid and Special Shielding	4.14
Audio, Control and Instrumentation Cables	4.14
Overall Braid Shield	4.15
MIL-Spec Communication & Instrumentation Cables	4.15
Overall Foil/Braid Shield	4.16–4.19
Computer Cables for EIA RS-232 Applications	4.16
28 AWG Non-Plenum	4.16
28 AWG Non-Plenum, Low Capacitance	4.16
26 and 24 AWG Non-Plenum, IEEE 488	4.16
24 AWG Non-Plenum	4.17
22 AWG Non-Plenum	4.19
Overall Shield	4.20–4.22
Special Audio, Control and Instrumentation Cables	4.20
Data Cables for Molex SEMMCONN and AMP® SDL Connectors	4.21
Direct Burial Cables	4.22
Plenum-Rated Cable	4.23–4.27
Unshielded	4.23
Overall Beldfoil Shield	4.24
Overall Foil/Braid Shield	4.25
High-Temperature Control & Instrumentation Cable	4.28–4.31
Unshielded	4.28
Overall Beldfoil Shield	4.29
Overall Braid Shield: MIL-W-16878/4 (Type E)	4.30
Fire Alarm Cable	4.32–4.34

Introduction

Belden® multi-conductor cables are manufactured in a wide variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions. These cables meet the technical requirements of many different types of systems. In fact, Belden offers one of the broadest lines of UL Listed, NEC and CEC multi-conductor cables available from any single source.

Applications for multi-conductor cables include computers, communications, instrumentation, sound, control, audio, and data transmission. Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

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

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

Multi-Conductor Cables Packaging

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

Selection Guide

Shielded Multi-Conductor Computer Cables for RS-232 Applications

Specifications		Cable Series*			
		9925	9608	9533	9939
Conductor Size: (AWG)	28				
	24	✓	✓	✓	
	22				✓
	20				
	18				
Page No.		4.18	4.17	4.11	4.19
Insulation:	S-R PVC		✓	✓	✓
	Polyethylene				
	Polypropylene				
	Datalene®†	✓			
Shield:	Overall Foil			✓	
	Drain Wire	✓		✓	
	Overall Foil/Braid	✓	✓		✓
	Braid Coverage	65%	65%		65%
Drain Wire Overall:		Yes	No	Yes	No
No. of Cond. Available:	1				
	2				
	3	✓	✓	✓	✓
	4	✓	✓	✓	✓
	5	✓	✓	✓	✓
	6	✓	✓	✓	✓
	7	✓	✓	✓	✓
	8	✓	✓	✓	✓
	9	✓	✓	✓	✓
	10	✓	✓	✓	✓
	11				
	12				
	13				
	15	✓	✓	✓	✓
	17				
	18				
	19				
	20			✓	
	25	✓	✓	✓	✓
	27				
	30			✓	
	31				
	37	✓	✓		✓
	40			✓	
	50		✓	✓	✓
Capacitance ** (pF/ft.)		12.0	30.0	30.0	35.0

*All cables are UL-listed.

**Capacitance may vary on some cables.

† Foam high density polyethylene.

Unshielded

Audio, Control and Instrumentation Cables
Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 Solid Bare Copper Conductors • Conductors Cabled**Polyethylene Insulation • Rose Gray PVC Jacket**

	8795	UL AWM Style 2092 (300V 60°C) NEC: CM CEC: CM	2	Red, Green	U-500	U-152.4	10.0	4.5	.018	.46	.022	.56	.168	4.27
					U-1000	U-304.8	19.0	8.6						
					1000	304.8	17.0	7.8						
	8794	UL AWM Style 2093 (300V 60°C) NEC: CM	3	Green, Red, Yellow	U-1000	U-304.8	22.0	10.0	.018	.46	.022	.56	.178	4.52
					1000	304.8	21.0	9.6						
	9794	UL AWM Style 2094 (300V 60°C) NEC: MP, CM	4	Green, Red, Yellow, Black	U-500	U-152.4	14.0	6.4	.018	.46	.025	.64	.200	5.08
					U-1000	U-304.8	26.0	11.8						
	1242A	UL AWM Style 2094 (300V 60°C) NEC: CM CEC: CM	4	Green, Red, Yellow, Black	U-1000	U-304.8	16.0	7.2	.018	.46	.025	.64	.154	3.91

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

	8442*	NEC: CMG CEC: CMG FT4	2	Black, Red	100	30.5	2.4	1.1	.015	.38	.025	.64	.170	4.32
					U-500	U-152.4	8.0	3.7						
					500	152.4	7.5	3.4						
					U-1000	U-304.8	15.0	6.8						
					1000	304.8	15.0	6.8						
	8443	NEC: CMG CEC: CMG FT4	3	Black, Red, Green	100	30.5	2.7	1.2	.010	.25	.032	.81	.172	4.37
					U-500	U-152.4	9.5	4.3						
					500	152.4	9.5	4.3						
					U-1000	U-304.8	18.0	8.2						
					1000	304.8	18.0	8.2						
	8444	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100	30.5	3.1	1.4	.010	.25	.032	.81	.185	4.70
					U-500	U-152.4	11.5	5.2						
					500	152.4	11.5	5.2						
					U-1000	U-304.8	22.0	10.0						
					1000	304.8	23.0	10.5						
	8445	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100	30.5	3.5	1.6	.010	.25	.032	.81	.194	4.93
					U-500	U-152.4	13.5	6.1						
					500	152.4	13.5	6.1						
					U-1000	U-304.8	25.0	11.4						
					1000	304.8	26.0	11.8						
	9430	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	U-500	U-152.4	17.0	7.7	.010	.25	.032	.81	.214	5.44
					500	152.4	17.0	7.7						
					U-1000	U-304.8	32.0	14.5						
					1000	304.8	34.0	15.9						
	9421	NEC: CMG CEC: CMG FT4	8	See Chart 1 (Tech Info Section)	U-500	U-152.4	4.2	1.9	.010	.25	.032	.81	.229	5.82
					500	152.4	19.0	8.7						
					500	152.4	18.5	8.4						
					U-1000	U-304.8	36.0	16.3						
					1000	304.8	38.0	17.2						
	9423	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	U-500	U-152.4	21.0	9.6	.010	.25	.032	.81	.244	6.20
					500	152.4	21.5	9.8						
					U-1000	U-304.8	41.0	18.6						
					1000	304.8	43.0	19.5						
	8456	NEC: CMG CEC: CMG FT4	10	See Chart 1 (Tech Info Section)	U-500	U-152.4	22.5	10.2	.010	.25	.032	.81	.264	6.71
					500	152.4	23.0	10.5						
					U-1000	U-304.8	44.0	20.0						
					1000	304.8	46.0	20.9						

*Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

Unshielded

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled (continued)**PVC Insulation • Chrome PVC Jacket**

UL AWM Style 2576 (150V 80°C) 	8457	NEC:	12	See	100	30.5	5.6	2.5	.010	.25	.032	.81	.272	6.91
		CMG		Chart 1	U-500	U-152.4	25.5	11.6						
		CEC:		(Tech Info	500	152.4	26.0	11.8						
		CMG FT4		Section)	U-1000	U-304.8	50.0	22.7						
					1000	304.8	52.0	23.6						
	8458	NEC:	15	See	100	30.5	7.3	3.3	.010	.25	.040	1.02	.315	8.00
		CMG		Chart 2R	500	152.4	35.5	16.1						
		CEC:		(Tech Info	1000	304.8	72.0	32.7						
		CMG FT4		Section)										
	9431	NEC:	20	See	100	30.5	9.1	4.1	.010	.25	.040	1.02	.345	8.76
		CMG		Chart 2R	500	152.4	48.5	22.0						
		CEC:		(Tech Info	1000	304.8	87.0	39.5						
		CMG FT4		Section)										
	8459	NEC:	25	See	100	30.5	11.1	5.0	.010	.25	.040	1.02	.387	9.83
		CMG		Chart 2R	500	152.4	55.0	25.0						
		CEC:		(Tech Info	1000	304.8	109.0	49.5						
		CMG FT4		Section)										
	9432	NEC:	30	See	100	30.5	12.5	5.7	.010	.25	.040	1.02	.400	10.16
		CMG		Chart 2R	500	152.4	62.5	28.4						
		CEC:		(Tech Info	1000	304.8	124.0	56.3						
		CMG FT4		Section)										
	9433	NEC:	40	See	100	30.5	16.6	7.5	.010	.25	.040	1.02	.455	11.56
		CMG		Chart 2R	500	152.4	83.0	37.7						
		CEC:		(Tech Info	1000	304.8	161.0	73.1						
		CMG FT4		Section)										
	9434	NEC:	50	See	500	152.4	100.5	45.7	.010	.25	.045	1.14	.500	12.70
		CMG		Chart 2R	1000	304.8	206.0	93.5						
		CEC:		(Tech Info										
		CMG FT4		Section)										

Plenum • FEP Insulation • Red FEP Jacket

300V RMS, Non-conduit 	88442*	NEC:	2	Black,	100	30.5	2.3	1.0	.006	.15	.012	.30	.102	2.59
		CMP		Red	500 [†]	152.4	5.5	2.5						
		CEC:			1000 [†]	304.8	8.0	3.7						
		CMP FT6												

300V RMS, Non-conduit 	88444	NEC:	4	Black,	100	30.5	2.9	1.3	.006	.15	.010	.25	.121	3.07
		CMP		White,	500 [†]	152.4	9.0	4.1						
		CEC:		Red,	1000 [†]	304.8	15.0	6.8						
		CMP FT6		Green										

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS, Non-conduit 	82442*	NEC:	2	Black,	U-1000 [†]	U-304.8	9.0	4.1	.006	.15	.015	.38	.113	2.87
		CMP		Red	1000 [†]	304.8	8.0	3.7						
		CEC:												
		CMP FT6												

300V RMS, Non-conduit 	82444	NEC:	4	Black,	U-500 [†]	U-152.4	9.0	4.1	.006	.15	.015	.38	.134	3.40
		CMP		White,	U-1000 [†]	U-304.8	16.0	7.3						
		CEC:		Red,	1000 [†]	304.8	15.0	6.8						
		CMP FT6		Green										

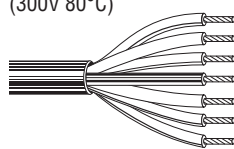
* Twisted Pair

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

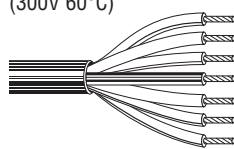
Unshielded**Audio, Control and Instrumentation Cables****Non-Plenum**

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled**PVC Insulation • Chrome PVC Jacket**

UL AWM Style 2464 (300V 80°C) 	9444	NEC:	4	See Chart 1 (Tech Info Section)	100	30.5	4.0	1.8	.013	.33	.032	.81	.217	5.51
		CMG			U-500	U-152.4	16.5	7.5						
		CEC:			500	152.4	16.5	7.5						
		CMG FT4			U-1000	U-304.8	32.0	14.5						
					1000	304.8	33.0	15.0						
	9445	NEC:	5	See Chart 1 (Tech Info Section)	100	30.5	4.4	2.1	.013	.33	.032	.81	.239	6.07
		CMG			U-500	U-152.4	20.0	9.1						
		CEC:			500	152.4	19.5	8.9						
		CMG FT4			U-1000	U-304.8	38.0	17.2						
					1000	304.8	40.0	18.2						
	9439	NEC:	7	See Chart 1 (Tech Info Section)	100	30.5	5.7	2.6	.013	.33	.032	.81	.260	6.60
		CMG			U-500	U-152.4	26.0	11.9						
		CEC:			500	152.4	27.0	12.3						
		CMG FT4			U-1000	U-304.8	51.0	23.1						
					1000	304.8	53.0	24.1						
	9455	NEC:	9	See Chart 1 (Tech Info Section)	100	30.5	7.1	3.2	.013	.33	.035	.89	.317	8.05
		CMG			500	152.4	35.0	15.9						
		CEC:			1000	304.8	67.0	30.4						
		CMG FT4												
	9457	NEC:	12	See Chart 1 (Tech Info Section)	100	30.5	9.2	4.2	.013	.33	.035	.89	.338	8.58
		CMG			500	152.4	45.0	20.4						
		CEC:			1000	304.8	88.0	40.0						
		CMG FT4												
	9458	NEC:	15	See Chart 2R (Tech Info Section)	100	30.5	12.6	5.7	.013	.33	.040	1.02	.389	9.88
		CMG			500	152.4	60.5	27.5						
		CEC:			1000	304.8	118.0	53.6						
		CMG FT4												

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

UL AWM Style 2598 (300V 60°C) 	8489	NEC:	4	See Chart 1 (Tech Info Section)	100	30.5	5.1	2.3	.017	.43	.032	.81	.257	6.53
		CMG			250	76.2	12.0	5.4						
		CEC:			U-500	U-152.4	23.5	10.7						
		CMG FT4			500	152.4	24.0	10.9						
					U-1000	U-304.8	46.0	20.9						
	8465	NEC:	5	See Chart 1 (Tech Info Section)	100	30.5	6.4	2.9	.017	.43	.033	.84	.282	7.16
		CMG			U-500	U-152.4	29.5	13.5						
		CEC:			500	152.4	30.0	13.6						
		CMG FT4			U-1000	U-304.8	58.0	26.3						
					1000	304.8	60.0	27.4						
	8467	NEC:	7	See Chart 1 (Tech Info Section)	100	30.5	8.3	3.8	.017	.43	.037	.94	.314	7.98
		CMG			250	76.2	20.0	9.1						
		CEC:			500	152.4	40.5	18.4						
		CMG FT4			1000	304.8	79.0	35.9						
	8469	NEC:	9	See Chart 1 (Tech Info Section)	100	30.5	10.5	4.8	.017	.43	.037	.94	.364	9.25
		CMG			250	76.2	26.0	11.8						
		CEC:			500	152.4	51.5	23.4						
		CMG FT4			1000	304.8	105.0	47.7						
	8466	NEC:	12	See Chart 2R (Tech Info Section)	100	30.5	13.2	6.0	.017	.43	.040	1.02	.412	10.46
		CMG			250	76.2	32.5	14.8						
		CEC:			500	152.4	66.0	30.0						
		CMG FT4			1000	304.8	131.0	59.5						
	8468	NEC:	15	See Chart 2R (Tech Info Section)	100	30.5	17.9	8.1	.017	.43	.045	1.14	.500	12.70
		CMG			500	152.4	89.5	40.6						
		CEC:			1000	304.8	175.0	79.5						
		CMG FT4												

For Plenum versions of 8489,
see 88489 or 82489.

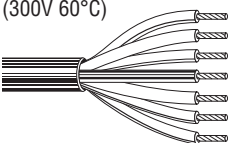
Unshielded

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled (continued)

PVC Insulation • Chrome PVC Jacket

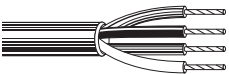
 UL AWM Style 2598 (300V 60°C)	8619	NEC:	19	See Chart 2R (Tech Info Section)	100	30.5	20.3	9.2	.017	.43	.045	1.14	.490	12.45
		CMG			500	152.4	101.0	45.9						
		CEC: CMG FT4			1000	304.8	198.0	90.0						
	9626	NEC:	25	See Chart 2R (Tech Info Section)	100	30.5	29.1	13.2	.017	.43	.060	1.52	.612	15.54
		CMG			500	152.4	139.5	63.3						
		CEC: CMG FT4			1000	304.8	277.0	125.8						

Plenum • FEP Insulation • Red FEP Jacket

 300V RMS	88489	NEC:	4	Black, White, Red, Green	500 [†]	152.4	14.5	6.6	.007	.18	.009	.23	.161	4.09
		CMP			1000 [†]	304.8	29.0	13.2						
		CEC: CMP FT6												

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flamarrest® Jacket

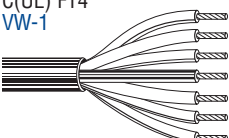
 300V RMS	82489	NEC:	4	Black, White, Red, Green	U-1000 [†]	U-304.8	31.0	14.1	.007	.18	.014	.36	.170	4.32
		CMP			1000 [†]	304.8	29.0	13.2						
		CEC: CMP FT6												

16 AWG Stranded (19x29) Tinned Copper Conductors • Conductors Cabled

PVC Insulation • Cabled Wire (No Jacket)

 UL AWM Style 1007 (300V 80°C) VW-1	9498	—	3	Orange, Black, Orange w/ Black Stripe	1000	304.8	42.0	19.1	.027	.69	—	—	.243	6.17

PVC Insulation • Chrome PVC Jacket

 600V RMS 80°C C(UL) FT4 VW-1	8620	—	4	See Chart 2 (Tech Info Section)	100	30.5	8.9	4.0	.031	.79	.042	1.07	.376	9.55
					500	152.4	44.0	20.0						
					1000	304.8	88.0	40.0						
	9620	—	5	See Chart 2 (Tech Info Section)	100	30.5	11.0	5.0	.031	.79	.042	1.07	.411	10.44
					500	152.4	53.5	24.3						
					1000	304.8	109.0	49.5						
	8621	—	7	See Chart 2R (Tech Info Section)	100	30.5	13.2	6.0	.031	.79	.045	1.14	.458	11.63
					500	152.4	73.5	33.4						
					1000	304.8	143.0	65.0						
	9721	—	8	See Chart 2R (Tech Info Section)	100	30.5	27.3	12.4	.031	.79	.045	1.14	.496	12.60
					500	152.4	136.5	62.0						
					1000	304.8	269.0	122.1						
	9621	—	9	See Chart 2R (Tech Info Section)	100	30.5	17.0	7.8	.031	.79	.045	1.14	.533	13.54
					500	152.4	94.0	42.7						
					1000	304.8	181.0	82.2						
	8622	—	12	See Chart 2R (Tech Info Section)	100	30.5	27.0	12.3	.031	.79	.060	1.52	.627	15.93
					500	152.4	126.5	57.4						
					1000	304.8	251.0	114.0						
	8623	—	15	See Chart 2R (Tech Info Section)	100	30.5	32.5	14.8	.031	.79	.060	1.52	.694	17.63
					500	152.4	155.5	70.6						
					1000	304.8	314.0	142.6						
	8624	—	19	See Chart 2R (Tech Info Section)	100	30.5	36.8	16.7	.031	.79	.065	1.65	.740	18.80
					500	152.4	178.5	81.0						
					1000	304.8	361.0	164.0						
	9622	—	25	See Chart 2R (Tech Info Section)	100	30.5	49.0	22.2	.031	.79	.065	1.65	.879	22.33
					500	152.4	236.0	107.1						
					1000	304.8	480.0	217.9						

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

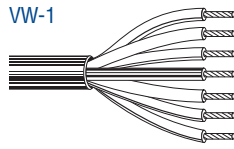
Unshielded

Audio, Control, Communication and Instrumentation Cables

Non-Plenum

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

14 AWG Stranded (19x27) Tinned Copper Conductors • Conductors Cabled**PVC Insulation • Chrome PVC Jacket**

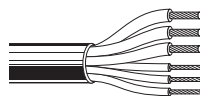
	8627	—	4	See Chart 2 (Tech Info Section)	100	30.5	13.8	6.3	.045	1.14	.045	1.14	.490	12.45
					500	152.4	76.5	34.7						
					1000	304.8	149.0	67.6						
	9623	—	5	See Chart 2 (Tech Info Section)	100	30.5	18.1	8.3	.045	1.14	.060	1.52	.573	14.55
					500	152.4	99.5	45.1						
					1000	304.8	197.0	89.4						
	8628	—	7	See Chart 2 (Tech Info Section)	100	30.5	23.9	11.0	.045	1.14	.060	1.52	.623	15.82
					500	152.4	128.0	58.1						
					1000	304.8	255.0	115.8						
	8629	—	12	See Chart 2 (Tech Info Section)	100	30.5	44.6	20.2	.045	1.14	.065	1.65	.824	20.93
					500	152.4	222.0	100.8						
					1000	304.8	454.0	206.1						

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 and 18 AWG Stranded (7x30 and 16x30) Tinned Copper Conductors • Conductors Cabled**PVC Insulation • Chrome PVC Jacket**

	8446	NEC: CMG CEC: CMG FT4	6: 4 Unshld 22 (7x30) 2 Unshld 18 (16x30)	Red, Green, Brown, Blue Black, White	100	30.5	4.7	2.1	.010	.25	.032	.81	.236	5.99	30	98	54	177
					U-500	U-152.4	21.5	9.8										
					500	152.4	21.5	9.8										
					U-1000	U-304.8	41.0	18.6	.019	.48								
					1000	304.8	43.0	19.5										

20 and 16 AWG Stranded (7x28 and 19x28) Tinned Copper Conductors • Conductors Cabled**PVC Insulation • Chrome PVC Jacket**

	9686	NEC: CM	6: 3 Unshld 20 (7x28) 3 Unshld 16 (19x28)	Green, Blue, Purple Black, Red, Yellow	U-500	U-152.4	32.5	14.7	.012	.30	.032	.81	.295	7.49	20	66	36	118
									.013	.33					30	98	54	177

*Capacitance between conductors.

**Nominal capacitance conductor to conductor and shield.

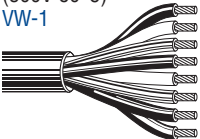
Unshielded

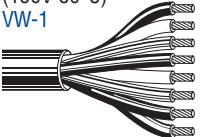
Antenna Rotor Control Cables, Security/Audio Systems
and Duplex Primary Wire

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

Antenna Rotor Cables Stranded Tinned Copper Conductors • Conductors Cabled

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C) VW-1 	9405	NEC: CM	8	Black, White	2@16 (19x28)	500	152.4	47.0	21.3	.019	.48	.032	.81	.345	8.76
						1000	304.8	92.0	41.8						
				Brown, Red, Yellow, Blue, Orange, Green	6@18 (16x30)					.018	.46				

UL AWM Style 2576 (150V 80°C) VW-1 	8448	NEC: CMG CEC: CMG FT4	8	Black, White	2@18 (16x30)	U-500	U-152.4	25.0	11.4	.019	.48	.032	.81	.259	6.58
						500	152.4	25.5	11.6						
				Red, Green, Brown, Blue, Yellow, Orange	6@22 (7x30)	U-1000	U-304.8	49.0	22.2	.010	.25				
						1000	304.8	50.0	22.7						

Security/Audio/Power Limited Controls Cable Stranded Bare Copper Conductors • Conductors Parallel

PVC Insulation • Chrome PVC Jacket

200V RMS 75°C VW-1 	8484	—	4	Black, Green, Red, White	20 (7x28)	U-500	U-152.4	12.5	5.7	—	—	—	—	.177	4.50
						500	152.4	12.5	5.7						
						U-1000	U-304.8	24.0	10.9						
						1000	304.8	25.0	11.4						

Duplex Primary Wire Stranded Bare Copper Conductors • Conductors Parallel

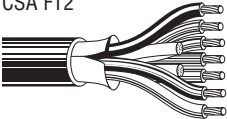
PVC Insulation • Chrome PVC Jacket

300V RMS 75°C VW-1 	8677	—	2	Brown, Red	16 (19x29)	500	152.4	18.5	8.4	.024	.61	.022	.56	.149	3.78
														x	x
														.254	6.45
	8675	—	2	Brown, Red	14 (19x27)	500	152.4	23.5	10.7	.023	.58	.023	.58	.168	4.27
														x	x
														.290	7.37
	8673	—	2	Brown, Red	12 (19x25)	500	152.4	32.5	14.8	.026	.66	.022	.56	.186	4.72
														x	x
														.328	8.33
	8678	—	2	Brown, Red	10 (19x23)	500	152.4	51.0	23.1	.031	.79	.025	.64	.225	5.72
														x	x
														.400	10.16

Unshielded

Power and Control Cables

Rubber and Oil-Resistant Rubber SO Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
16 AWG Stranded (65x34) Bare Copper Conductors • Conductors Cabled with Fillers • Paper Tape Separator														
EPDM Rubber Insulation • Black Oil-resistant Rubber Jacket														
600V RMS 60°C CSA FT2 	9420	UL: SO	5	See Chart 2 (Tech Info Section)	100	30.5	13.3	6.0	.033	.838	.084	2.13	.506	12.85
		CSA: SO			500	152.4	73.5	33.4						
					1000	304.8	143.0	65.0						
	9422	UL: SO	7	See Chart 2 (Tech Info Section)	100	30.5	18.5	8.4	.033	.838	.083	2.11	.581	14.76
		CSA: SO			500	152.4	101.0	45.9						
					1000	304.8	201.0	91.3						
9424	UL: SO	9	See Chart 2 (Tech Info Section)	100	30.5	29.6	13.4	.033	.838	.100	2.54	.720*	18.29	
	CSA: SO			500	152.4	150.5	68.3							
				1000	304.8	288.0	130.8							
9425	UL: SO	12	See Chart 2 (Tech Info Section)	100	30.5	32.6	14.8	.033	.838	.100	2.54	.720	18.29	
	CSA: SO			500	152.4	165.5	75.1							
				1000	304.8	318.0	144.4							
9427	UL: SO	16	See Chart 2 (Tech Info Section)	100	30.5	39.5	17.9	.033	.838	.100	2.54	.787	19.99	
	CSA: SO			1000	304.8	428.0	194.3							
9429	UL: SO	20	See Chart 2 (Tech Info Section)	100	30.5	48.4	22.0	.033	.838	.100	2.54	.862	21.89	
	CSA: SO			500	152.4	233.0	105.8							

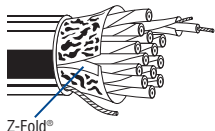
EPDM = Ethylene Propylene Diene Monomer

*Fillers added in the center

Overall Beldfoil® Shield

Computer Cable for Synchronous EIA Interface

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Imped. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
28 AWG Stranded (7x36) TC Conductors • Individually and Overall Beldfoil Shielded (100% Coverage) • 28 AWG Stranded TC Drain Wires																	
Datalene® Insulation • Gray PVC Jacket																	
UL AWM Style 2384 (30V 60°C)	9868	NEC: CM	14	1000	304.8	71.0	32.2	.394	10.01	64.9Ω/M' 212.9Ω/km	Individual: 44.0Ω/M' 144.4Ω/km Overall: 18.2Ω/M' 59.7Ω/km	65	78%	—	—	20.5	67.3



Individually Beldfoil shielded conductors are isolated from adjacent shields and each has a 28 AWG stranded TC drain wire.

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

**Nominal capacitance conductor to conductor and shield.

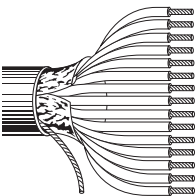
Datalene insulation features include a low dielectric constant and a low dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

Color Codes

Cond. No.	Color
1	Black w/ Blue Shield
2	Brown w/ Blue Shield
3	Red w/ Blue Shield
4	Orange w/ Blue Shield
5	Blue w/ Blue Shield
6	Yellow w/ Blue Shield
7	Natural w/ Blue Shield
8	Black w/ Red Shield
9	Brown w/ Red Shield
10	Red w/ Red Shield
11	Orange w/ Red Shield
12	Blue w/ Red Shield
13	Yellow w/ Red Shield
14	Natural w/ Red Shield

Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled • 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)	9533	NEC:	3	See Chart 1 (Tech Info Section)	100	30.5	2.7	1.2	.010	.25	.032	.81	.162	4.11	33	108	65	213		
		CMG:			U-500	U-152.4	9.5	4.3												
		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												
	9534	NEC:	4	See Chart 1 (Tech Info Section)	100	30.5	3.0	1.4	.010	.25	.032	.81	.184	4.67	33	108	65	213		
CMG:		U-500			U-152.4	11.0	5.0													
CEC:		500			152.4	11.5	5.2													
CMG FT4		U-1000			U-304.8	21.0	9.5													
		1000			304.8	22.0	10.0													
	9535	NEC:	5	See Chart 1 (Tech Info Section)	100	30.5	3.2	1.5	.010	.25	.032	.81	.189	4.80	33	108	65	213		
CMG:		U-500			U-152.4	12.0	5.4													
CEC:		500			152.4	11.0	5.0													
CMG FT4		U-1000			U-304.8	23.0	10.4													
		1000			304.8	22.0	10.0													
	9536	NEC:	6	See Chart 1 (Tech Info Section)	100	30.5	3.6	1.6	.010	.25	.032	.81	.209	5.31	33	108	65	213		
CMG:		U-500			U-152.4	14.5	6.6													
CEC:		500			152.4	12.5	5.7													
CMG FT4		U-1000			U-304.8	27.0	12.3													
		1000			304.8	29.0	13.2													
	9537	NEC:	7	See Chart 1 (Tech Info Section)	100	30.5	3.7	1.7	.010	.25	.032	.81	.209	5.31	33	108	65	213		
CMG:		U-500			U-152.4	15.0	6.8													
CEC:		500			152.4	13.5	6.2													
CMG FT4		U-1000			U-304.8	29.0	13.2													
		1000			304.8	30.0	13.7													
	9538	NEC:	8	See Chart 1 (Tech Info Section)	100	30.5	3.8	1.7	.010	.25	.032	.81	.224	5.69	33	108	65	213		
CMG:		U-500			U-152.4	17.0	7.7													
CEC:		500			152.4	15.0	6.8													
CMG FT4		U-1000			U-304.8	32.0	14.6													
		1000			304.8	34.0	15.4													
	9539	NEC:	9	See Chart 1 (Tech Info Section)	100	30.5	4.2	1.9	.010	.25	.032	.81	.244	6.20	30	98	55	180		
CMG:		U-500			U-152.4	20.0	9.1													
CEC:		500			152.4	17.0	7.8													
CMG FT4		U-1000			U-304.8	37.0	16.9													
		1000			304.8	38.0	17.3													
	9540	NEC:	10	See Chart 1 (Tech Info Section)	100	30.5	4.3	2.0	.010	.25	.032	.81	.244	6.20	30	98	55	180		
CMG:		U-500			U-152.4	19.5	8.9													
CEC:		500			152.4	18.0	8.2													
CMG FT4		U-1000			U-304.8	38.0	17.2													
		1000			304.8	36.0	16.4													
	9541	NEC:	15	See Chart 2R (Tech Info Section)	100	30.5	5.9	2.7	.010	.25	.032	.81	.284	7.21	30	98	55	180		
CMG:		U-500			U-152.4	27.5	12.5													
CEC:		500			152.4	28.0	12.7													
CMG FT4		U-1000			U-304.8	54.0	24.5													
		1000			304.8	56.0	25.4													
	9542	NEC:	20	See Chart 2R (Tech Info Section)	100	30.5	7.3	3.3	.010	.25	.032	.81	.314	7.98	30	98	55	180		
CMG:		U-500			U-152.4	34.0	15.4													
CEC:		500			152.4	35.5	16.1													
CMG FT4		1000			304.8	69.0	31.3													
	9543	NEC:	25	See Chart 2R (Tech Info Section)	100	30.5	8.7	4.0	.010	.25	.032	.81	.339	8.61	30	98	55	180		
CMG:		500			152.4	44.0	20.0													
CEC:		1000			304.8	86.0	39.0													
CMG FT4																				
	9544	NEC:	30	See Chart 2R (Tech Info Section)	100	30.5	10.3	4.7	.010	.25	.040	1.02	.380	9.65	30	98	55	180		
CMG:		500			152.4	51.5	23.4													
CEC:		1000			304.8	102.0	46.3													
CMG FT4																				
	9545	NEC:	40	See Chart 2R (Tech Info Section)	100	30.5	13.5	6.1	.010	.25	.040	1.02	.430	10.92	30	98	55	180		
CMG:		500			152.4	65.0	29.5													
CEC:		1000			304.8	130.0	59.0													
CMG FT4																				
	9546	NEC:	50	See Chart 2R (Tech Info Section)	100	30.5	16.4	7.4	.010	.25	.045	1.14	.490	12.45	30	98	55	180		
CMG:		500			152.4	81.5	37.0													
CEC:		1000			304.8	168.0	76.3													
CMG FT4																				

TC = Tinned Copper

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

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

Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire**Polypropylene Insulation • Brown PVC Jacket**

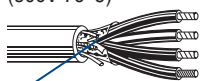
300V RMS	9770	NEC: CM	3	Black, Red,	U-500	U-152.4	9.0	4.1	.008	.20	.020	.51	.145	3.68	32	105	60	197
		CEC: CM		White	500	152.4	9.0	4.1										
					U-1000	U-304.8	18.0	8.2										
					1000	304.8	17.0	7.7										

**Polyethylene Insulation • Chrome PVC Jacket**

UL AWM Style 2093 (300V 60°C)	8771	NEC: CM	3	Black, Red,	250	76.2	6.3	2.8	.016	.41	.033	.84	.199	5.05	23	75	41	134
		CEC: CM		Clear	500	152.4	12.0	5.5										
					U-500	U-152.4	12.0	5.5										
					U-1000	U-304.8	23.0	10.4										
					1000	304.8	24.0	10.9										
					10000†	3048.0	240.0	109.1										

**22 AWG** Stranded (19x34) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 23 and 25 AWG Drain Wires††**Polyethylene Insulation • White PVC Jacket**

UL AWM Style 2094 (300V 75°C)	8729	NEC: CM, CL3	4	Black, Red,	U-500	U-152.4	23.0	10.5	.016	.41	.051	1.30	.257	6.53	22	72	42	138
		CEC: CM		Green, Clear	500	152.4	21.5	9.8										
					U-1000	U-304.8	45.0	20.4										
					1000	304.8	47.0	21.4										



†† 8729 has three 23 AWG solid and one 25 AWG stranded tinned copper-coated steel drain wires.

20 AWG Stranded (7x28) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire**Polyethylene Insulation • Chrome PVC Jacket**

UL AWM Style 2093 (300V 60°C)	8772	NEC: CM	3	Black, Red,	U-500	U-152.4	16.0	7.3	.016	.41	.033	.84	.218	5.54	27	89	51	167
		CEC: CM		Clear	500	152.4	16.0	7.3										
					U-1000	U-304.8	31.0	14.1										
					1000	304.8	32.0	14.5										



TC = Tinned Copper

*Capacitance between conductors.

**Nominal capacitance conductor to conductor and shield.

†Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Plenum-Rated and Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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

18 AWG Stranded (16x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire**Polyethylene Insulation • Chrome PVC Jacket**

UL AWM Style 2093 (300V 60°C)	8770	NEC: CM	3	Black, Red, Clear	U-500 500 U-1000 1000 10000††	U-152.4 152.4 U-304.8 304.8 3048.0	20.0 20.5 38.0 40.0 430.0	9.1 9.3 17.2 18.2 195.5	.018 .46	.033 .84	.246 6.25	24 79	48 157
----------------------------------	-------------	------------	---	-------------------------	---	--	---------------------------------------	-------------------------------------	-------------	-------------	--------------	----------	-----------



Shorting Fold

For Plenum version of 8770,
see 8770.**18 AWG** Stranded (19x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire**Semi-rigid PVC Insulation • Chrome PVC Jacket**

UL AWM Style 2464 (300V 80°C)	9418	NEC: CMG	4	Red, Green, Black, White	100 U-500 500 U-1000 1000 10000††	30.5 U-152.4 152.4 U-304.8 304.8 3048.0	5.6 18.0 24.5 35.0 52.0 510.0	2.6 8.2 11.1 16.0 23.7 231.3	.010 .25	.035 .89	.245 6.22	70 230	120 394
----------------------------------	-------------	-------------	---	-----------------------------------	--	--	--	---	-------------	-------------	--------------	-----------	------------



Z-Fold®

For Plenum versions of 9418,
see 89418 or 82418.**Plenum • FEP Insulation • Red FEP Jacket**

(-70°C to +200°C)	88770	NEC: CMP	3	Black, White, Red	500 1000	152.4 304.8	16.0 32.0	7.3 14.6	.007 .18	.014 .36	.161 4.09	54 177	96 315
-------------------	--------------	-------------	---	-------------------------	-------------	----------------	--------------	-------------	-------------	-------------	--------------	-----------	-----------



Suitable for Outdoor and Direct Burial applications. Chemical Resistance: Gasoline and Oil.

(-70°C to +200°C)	89418	NEC: CMP	4	Black, White, Red, Green	100 500† 1000†	30.5 152.4 304.8	5.5 18.0 36.0	2.5 8.2 16.4	.007 .18	.014 .36	.177 4.50	30 98	57 187
-------------------	--------------	-------------	---	-----------------------------------	----------------------	------------------------	---------------------	--------------------	-------------	-------------	--------------	----------	-----------



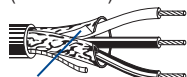
Suitable for Outdoor and Direct Burial applications. Chemical Resistance: Gasoline and Oil.

Plenum • FEP Insulation • Natural Flamarrest® Jacket

(-70°C to +200°C)	82418	NEC: CMP	4	Black, White, Red, Green	U-1000▲ 1000†	U-304.8 304.8	36.0 38.0	16.4 17.2	.007 .18	.014 .36	.176 4.47	30 98	63 207
-------------------	--------------	-------------	---	-----------------------------------	------------------	------------------	--------------	--------------	-------------	-------------	--------------	----------	-----------

**16 AWG** Stranded (19x29) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 18 AWG Stranded TC Drain Wire**Polyethylene Insulation • Chrome PVC Jacket**

UL AWM Style 2107 (300V 60°C)	8618	NEC: CL3	3	Black, Red, Clear	U-500 500 1000	U-152.4 152.4 304.8	31.0 32.5 66.0	14.1 14.8 30.1	.031 .79	.031 .79	.327 8.3	26 85	50 164
----------------------------------	-------------	-------------	---	-------------------------	----------------------	---------------------------	----------------------	----------------------	-------------	-------------	-------------	----------	-----------



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.

†† Final put-up may vary -10% to +20%. May contain 2 pieces. Min. length 1500 ft.

▲ Final put-up may vary 0 to -10%.

Overall Braid and Special Shielding

Audio, Control and Instrumentation Cables
Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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

30 AWG Stranded (7x38) TC Conductors • Conductors Cabled around Textile Strength Member • Paper Separator • TC Braid Shield (95% Coverage)

Polypropylene Insulation • Chrome PVC Jacket

200V RMS 105°C	8643	—	3	Black, Red, White	100 250	30.5 76.2	1.1 3.0	.5 1.4	.006	.15	.014	.36	.096	2.44	25	82	43	141
----------------	-------------	---	---	-------------------------	------------	--------------	------------	-----------	------	-----	------	-----	------	------	----	----	----	-----



Conductors cabled around textile strength member.

22 AWG Stranded (7x30) Tinned Copper Conductors • Conductors Cabled • Tinned Copper Braid Shield (70% Coverage)

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2095 (300V 80°C)	8735	NEC: CMG CEC: CMG FT4	3	Black, Red, White	500 U-1000 1000	152.4 U-304.8 304.8	14.0 27.0 27.0	6.4 12.3 12.3	.015	.38	.025	.64	.202	5.13	34	112	60	197
----------------------------------	-------------	--------------------------------	---	-------------------------	-----------------------	---------------------------	----------------------	---------------------	------	-----	------	-----	------	------	----	-----	----	-----



20 AWG Stranded (7x28) Tinned Copper Conductors • Tinned Copper Braid Shield (85% Coverage)

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C)	9260	NEC: CMG CEC: CMG FT4	6	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.3 35.5 69.0	3.3 16.1 31.4	.016	.41	.032	.81	.305	7.75	26	85	50	164
	9261	NEC: CMG CEC: CMG FT4	12	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.0 60.0 119.0	5.5 27.3 54.1	.016	.41	.040	1.02	.396	10.06	26	85	57	187



Combination Shielded/Unshielded • 22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • TC Braid Shield (80% Coverage)[†]

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2785 (300V 80°C)	8734	NEC: CM	3: 1 Shld 2 Unshld	Black, Red, White	U-1000 1000	U-304.8 304.8	23.0 21.0	10.4 9.6	.015	.38	.025	.64	.194	4.93	—	—	79	259
----------------------------------	-------------	------------	--------------------------	-------------------------	----------------	------------------	--------------	-------------	------	-----	------	-----	------	------	---	---	----	-----



[†]Tinned copper braid shield over one conductor (80% coverage).

Overall Spiral Shield • 18 AWG Stranded (7x26) TC Conductors • Conductors Cabled • Tinned Copper Spiral Wrap (80% Coverage)

PVC Insulation • Chrome PVC Jacket

450V RMS 80°C VW-1	8791	—	3	Black, Red, White	500 U-1000 1000	152.4 U-304.8 304.8	23.0 44.0 46.0	10.4 20.0 20.9	.022	.56	.028	.71	.260	6.60	47	154	84	276
-----------------------	-------------	---	---	-------------------------	-----------------------	---------------------------	----------------------	----------------------	------	-----	------	-----	------	------	----	-----	----	-----



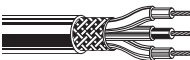
TC = Tinned Copper

*Capacitance between conductors.

**Nominal capacitance conductor to conductor and shield.

Overall Braid Shield

MIL-W-16878 (Type B) Conductors, Shielded and Jacketed[†]
Communication and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 (19x34) TC Conductors • .003" (.76mm) Clear Nylon Skin over Insulation • Tinned Copper Braid Shield (90% Coverage)																		
PVC Insulation • White PVC Jacket																		
600V RMS 105°C VW-1	9965	—	1	White	1000	304.8	10.0	4.5	.010	.25	.010	.25	.100	2.54	—	—	100	328
	9966	—	2	White, Black	100	30.5	2.9	1.3	.010	.25	.020	.51	.176	4.47	52	171	87	285
					500	152.4	10.5	4.8										
					1000	304.8	19.0	8.7										
	9967	—	3 ^{††}	White, Black, Red	100	30.5	3.4	1.5	.010	.25	.020	.51	.184	4.67	45	148	88	289
					500	152.4	13.0	5.9										
					1000	304.8	24.0	10.9										
	9968	—	4 ^{††}	White, Black, Red, Green	100	30.5	3.9	1.8	.010	.25	.020	.51	.200	5.08	42	138	69	226
					500	152.4	14.5	6.6										
					1000	304.8	29.0	13.2										
20 AWG Stranded (19x32) Tinned Copper Conductors • .004" (.10mm) Clear Nylon Skin over Insulation • TC Braid Shield (90% Coverage)																		
PVC Insulation • White PVC Jacket																		
600V RMS 105°C VW-1	9961	—	1	White	500	152.4	4.5	2.0	.011	.27	.010	.25	.109	2.77	—	—	103	338
	9962	—	2 ^{††}	White, Black	100	30.5	3.3	1.5	.011	.27	.020	.51	.192	4.88	53	174	91	299
					500	152.4	11.0	5.0										
					1000	304.8	22.0	10.0										
	9963	—	3 ^{††}	White, Black, Red	100	30.5	3.9	1.8	.011	.27	.025	.64	.210	5.33	49	161	84	276
					500	152.4	14.5	6.6										
					1000	304.8	29.0	13.2										
	9964	—	4 ^{††}	White, Black, Red, Green	100	30.5	4.6	2.1	.011	.27	.025	.64	.226	5.74	40	131	100	328
					500	152.4	18.0	8.2										
					1000	304.8	39.0	17.7										
16 AWG Stranded (19x29) Tinned Copper Conductors • .004" (.10mm) Clear Nylon Skin over Insulation • TC Braid Shield (90% Coverage)																		
PVC Insulation • White PVC Jacket																		
600V RMS 105°C VW-1	9951	—	1	White	1000	304.8	20.0	9.1	.012	.30	.016	.41	.143	3.63	—	—	138	453
	9952	—	2 ^{††}	White, Black	100	30.5	4.6	2.1	.012	.30	.025	.64	.250	6.35	57	187	95	312
					500	152.4	19.0	8.7										
					1000	304.8	42.0	19.1										
	9953	—	3 ^{††}	White, Black, Red	100	30.5	5.2	2.4	.012	.30	.025	.64	.264	6.71	58	190	101	331
					500	152.4	26.0	11.9										
					1000	304.8	56.0	25.5										
	9954	—	4 ^{††}	White, Black, Red, Green	100	30.5	7.7	3.5	.012	.30	.027	.69	.291	7.39	49	161	94	308
					500	152.4	34.5	15.7										
					1000	304.8	73.0	33.1										

TC = Tinned Copper

* Capacitance between conductors.

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

[†] Manufactured to Government specifications: MIL-W-16878 Rev. D.

^{††} Conductors cabled.

Overall Foil/Braid Shield

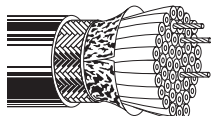
Computer Cables for EIA RS-232 Applications and IEEE 488 Interface,
Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

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

28 AWG Stranded (7x36) Tinned Copper Conductors • Overall Beldfoil® (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)

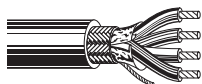
Semi-rigid PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C)	9637	NEC: CL2	25	See Chart 2R (Tech Info Section)	100	30.5	6.2	2.8	.305	7.75	64.9Ω/M'	4.5Ω/M'	66%	30	98	50	164
CSA AWM I B FT4					500	152.4	30.0	13.6			212.9Ω/km	14.8Ω/km					
					1000	304.8	59.0	26.8									



Low Cap 28 AWG Stranded (7x36) TC Conductors • Overall Beldfoil (100% Coverage) + TC Braid Shield (65% Coverage) • Drain Wire†

Datalene® Insulation • Chrome PVC Jacket																	
UL AWM Style 2919 (30V 80°C)	9791	NEC: CL2	6	See Chart 1 (Tech Info Section)	500	152.4	13.0	6.0	.225	5.72	64.9Ω/M'	6.15Ω/M'	78%	12	39.4	22	72.2
VW-1					1000	304.8	29.0	13.2			212.9Ω/km	20.2Ω/km					



†28 AWG Stranded TC Drain Wire

IEEE 488 • 26 AWG & 24 AWG Stranded (7x34 & 7x32) TC Cond. • Overall Beldfoil (100% Coverage) + TC Braid Shield (90% Coverage) • Drain Wire

Semi-rigid PVC Insulation • Gray PVC Jacket																	
UL AWM Style 2464 (300V 80°C)	9641	NEC: CMG	23: (6)	See Chart 1 (Tech Info Section)	1000	304.8	82.0	37.4	.350	8.89	26 AWG: 37.3Ω/M'	2.6Ω/M'	66%	—	—	—	—
CSA AWM I A		CEC: CMG FT4	26 AWG Pairs (10)								122.4Ω/km	8.5Ω/km					
			26 AWG Cond. (1)								24 AWG: 23.3Ω/M'						
			24 AWG Cond.								76.4Ω/km						

TC = Tinned Copper

*Capacitance between conductors.

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

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

Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nominal Capacitance																			
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m																
24 AWG Stranded (7x32) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage)																																
Semi-rigid PVC Insulation • Chrome PVC Jacket																																
 Z-Fold®	9608	NEC:	3	See Chart 1 (Tech Info Section)	100	30.5	3.1	1.4	.190	4.83	25.0Ω/M'	9.8Ω/M'	35	115	65	213																
		CMG:			500	152.4	12.0	5.4			82.0Ω/km	32.2Ω/km																				
		CEC:			1000	304.8	23.0	10.4																								
		CMG FT4																														
		NEC:			4	See Chart 1 (Tech Info Section)	100	30.5			3.5	1.6					.200	5.08	25.0Ω/M'	9.8Ω/M'	35	115	65	213								
		CMG:					500	152.4			13.5	6.1							82.0Ω/km	32.2Ω/km												
		CEC:					1000	304.8			26.0	11.8																				
		CMG FT4																														
		NEC:					5	See Chart 1 (Tech Info Section)			100	30.5							4.0	1.8					.215	5.46	25.0Ω/M'	6.5Ω/M'	35	115	65	213
		CMG:									500	152.4							16.0	7.3							82.0Ω/km	21.3Ω/km				
CEC:	1000	304.8	32.0	14.5																												
CMG FT4																																
NEC:	6	See Chart 1 (Tech Info Section)	100	30.5					4.2	1.9	.225	5.72	25.0Ω/M'	7.0Ω/M'	30	98.4			55	180												
CMG:			500	152.4					17.0	7.7			82.0Ω/km	23.0Ω/km																		
CEC:			1000	304.8	34.0	15.4																										
CMG FT4																																
NEC:			7	See Chart 1 (Tech Info Section)	100	30.5			4.2	1.9			.225	5.72			25.0Ω/M'	6.9Ω/M'			30	98.4	55	180								
CMG:					500	152.4			18.5	8.4							82.0Ω/km	22.6Ω/km														
CEC:					1000	304.8	38.0	17.3																								
CMG FT4																																
NEC:					8	See Chart 1 (Tech Info Section)	100	30.5	4.5	2.0							.240	6.10							25.0Ω/M'	7.3Ω/M'	30	98.4	55	180		
CMG:							500	152.4	21.0	9.5															82.0Ω/km	23.9Ω/km						
CEC:	1000	304.8					41.0	18.6																								
CMG FT4																																
NEC:	9	See Chart 1 (Tech Info Section)					100	30.5	4.8	2.2	.253	6.43			25.0Ω/M'	7.5Ω/M'			30	98.4					55	180						
CMG:							500	152.4	22.0	10.0					82.0Ω/km	24.6Ω/km																
CEC:			1000	304.8			44.0	20.0																								
CMG FT4																																
NEC:			10	See Chart 1 (Tech Info Section)			100	30.5	5.4	2.5			.270	6.86	25.0Ω/M'	6.9Ω/M'					30	98.4	55	180								
CMG:							500	152.4	25.0	11.4					82.0Ω/km	22.6Ω/km																
CEC:					1000	304.8	50.0	22.7																								
CMG FT4																																
NEC:					15	See Chart 2R (Tech Info Section)	100	30.5	6.6	3.0					.300	7.62	25.0Ω/M'	6.9Ω/M'									30	98.4	55	180		
CMG:							500	152.4	31.5	14.3							82.0Ω/km	22.6Ω/km														
CEC:	1000	304.8					63.0	28.6																								
CMG FT4																																
NEC:	25	See Chart 2R (Tech Info Section)					100	30.5	10.1	4.6	.370	9.40					25.0Ω/M'	5.1Ω/M'	30	98.4					55	180						
CMG:							500	152.4	49.5	22.5							82.0Ω/km	16.7Ω/km														
CEC:			1000	304.8			100.0	45.4																								
CMG FT4																																
NEC:			37	See Chart 2R (Tech Info Section)			100	30.5	13.7	6.2			.411	10.43			25.0Ω/M'	4.4Ω/M'			30	98.4	55	180								
CMG:							500	152.4	66.5	30.2							82.0Ω/km	14.4Ω/km														
CEC:					1000	304.8	135.0	61.3																								
CMG FT4																																
NEC:					50	See Chart 2R (Tech Info Section)	100	30.5	17.2	7.8					.485	12.32	25.0Ω/M'	4.3Ω/M'									30	98.4	55	180		
CMG:							500	152.4	93.0	42.2							82.0Ω/km	14.1Ω/km														
CEC:	1000	304.8					182.0	82.6																								
CMG FT4																																

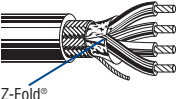
DCR = DC Resistance • TC = Tinned Copper

* Capacitance between conductors.

** Nominal capacitance conductor to conductor and shield.

Overall Foil/Braid Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Vel. of Prop.	Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield		* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage) • Drain Wire††																	
Datalene® Insulation • Chrome PVC Jacket																	
 UL AWM Style 2919 (30V 80°C) Z-Fold®	9925	NEC: CM	3	See Chart 1 (Tech Info Section)	100	30.5	3.5	1.6	.215	5.46	24.0Ω/M'	5.2Ω/M'	78%	12	39.4	22	72.2
		CEC: CM			500	152.4	12.0	5.5			78.7Ω/km	17.0Ω/km					
					1000	304.8	24.0	10.9									
	9927	NEC: CM	4	See Chart 1 (Tech Info Section)	100	30.5	3.6	1.6	.230	5.84	24.0Ω/M'	5.3Ω/M'	78%	12	39.4	22	72.2
		CEC: CM			500	152.4	14.5	6.6			78.7Ω/km	17.4Ω/km					
					1000	304.8	32.0	14.5									
	9929	NEC: CM	5	See Chart 1 (Tech Info Section)	100	30.5	4.0	1.8	.246	6.25	24.0Ω/M'	4.2Ω/M'	78%	12	39.4	22	72.2
		CEC: CM			500	152.4	16.0	7.3			78.7Ω/km	13.9Ω/km					
					1000	304.8	36.0	16.3									
	9931	NEC: CM	6	See Chart 1 (Tech Info Section)	100	30.5	4.2	1.9	.265	6.73	24.0Ω/M'	4.4Ω/M'	78%	12	39.4	22	72.2
CEC: CM		500			152.4	17.5	8.0	78.7Ω/km			14.4Ω/km						
		1000			304.8	39.0	17.7										
		10000			3048.0	410.0	186.1										
9932	NEC: CM	7	See Chart 1 (Tech Info Section)	100	30.5	4.5	2.0	.265	6.73	24.0Ω/M'	4.4Ω/M'	78%	12	39.4	22	72.2	
	CEC: CM			500	152.4	18.5	8.4			78.7Ω/km	14.4Ω/km						
				1000	304.8	41.0	18.6										
9933	NEC: CM	8	See Chart 1 (Tech Info Section)	100	30.5	4.9	2.2	.280	7.11	24.0Ω/M'	4.4Ω/M'	78%	12	39.4	22	72.2	
	CEC: CM			500	152.4	21.0	9.6			78.7Ω/km	14.4Ω/km						
				1000	304.8	46.0	20.9										
				10000†	3048.0	480.0	217.9										
9934	NEC: CM	9	See Chart 1 (Tech Info Section)	100	30.5	5.2	2.4	.300	7.62	24.0Ω/M'	3.9Ω/M'	78%	12	39.4	22	72.2	
	CEC: CM			500	152.4	22.0	10.0			78.7Ω/km	12.6Ω/km						
				1000	304.8	48.0	21.8										
9935	NEC: CM	10	See Chart 1 (Tech Info Section)	100	30.5	5.7	2.6	.306	7.77	24.0Ω/M'	3.2Ω/M'	78%	12	39.4	22	72.2	
	CEC: CM			500	152.4	28.0	12.7			78.7Ω/km	10.4Ω/km						
				1000	304.8	53.0	24.1										
9936	NEC: CM	15	See Chart 2R (Tech Info Section)	100	30.5	7.2	3.3	.350	8.89	24.0Ω/M'	3.6Ω/M'	78%	12	39.4	22	72.2	
	CEC: CM			500	152.4	35.0	15.9			78.7Ω/km	11.7Ω/km						
				1000	304.8	68.0	30.9										
9937	NEC: CM	25	See Chart 2R (Tech Info Section)	100	30.5	9.9	4.5	.445	11.30	24.0Ω/M'	2.8Ω/M'	78%	12	39.4	22	72.2	
	CEC: CM			500	152.4	54.5	24.8			78.7Ω/km	9.1Ω/km						
				1000	304.8	108.0	49.0										
9938	NEC: CM	37	See Chart 2R (Tech Info Section)	100	30.5	12.9	5.9	.500	12.7	24.0Ω/M'	2.4Ω/M'	78%	12	39.4	22	72.2	
	CEC: CM			500	152.4	71.5	32.5			78.7Ω/km	7.8Ω/km						
				1000	304.8	139.0	63.1										

†24 AWG Stranded TC Drain Wire

†24 AWG Stranded TC Drain Wire

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

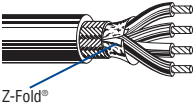
**Nominal capacitance conductor to conductor and shield.

††Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

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

Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nominal Capacitance				
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m	
22 AWG Stranded (7x30) Tinned Copper Conductors • Overall Beldfoil® (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)																	
Semi-rigid PVC Insulation • Chrome PVC Jacket																	
UL AWM Style 2464 (300V 80°C) 	9939	NEC:	3	See	100	30.5	3.6	1.6	.202	5.13	14.7Ω/M'	6.2Ω/M'	37	121	67	220	
		CMG		Chart 1	500	152.4	14.0	6.4			48.2Ω/km	20.3Ω/km					
		CEC:		(Tech Info Section)	1000	304.8	27.0	12.3									
		9940	NEC:	4	See	100	30.5	4.0	1.8	.215	5.46	14.7Ω/M'	5.0Ω/M'	37	121	67	220
	CMG	Chart 1	500		152.4	16.5	7.5			48.2Ω/km	16.4Ω/km						
	CEC:	(Tech Info Section)	1000		304.8	32.0	14.5										
		9941	NEC:	5	See	100	30.5	4.2	1.8	.230	5.84	14.7Ω/M'	7.1Ω/M'	37	121	67	220
	CMG	Chart 1	500		152.4	19.0	8.6			48.2Ω/km	23.3Ω/km						
	CEC:	(Tech Info Section)	1000		304.8	38.0	17.3										
		9942	NEC:	6	See	100	30.5	4.7	2.1	.245	6.22	14.7Ω/M'	7.9Ω/M'	35	115	63	207
	CMG	Chart 1	500		152.4	22.0	10.0			48.2Ω/km	25.9Ω/km						
	CEC:	(Tech Info Section)	1000		304.8	43.0	19.5										
	9943	NEC:	7	See	100	30.5	5.0	2.3	.245	6.22	14.7Ω/M'	7.0Ω/M'	35	115	63	207	
CMG	Chart 1	500		152.4	23.5	10.8			48.2Ω/km	23.0Ω/km							
CEC:	(Tech Info Section)	1000		304.8	46.0	20.9											
	9944	NEC:	8	See	100	30.5	5.5	2.5	.260	6.60	14.7Ω/M'	6.0Ω/M'	35	115	63	207	
CMG	Chart 1	500		152.4	26.0	11.8			48.2Ω/km	19.7Ω/km							
CEC:	(Tech Info Section)	1000		304.8	52.0	23.6											
	9945	NEC:	9	See	100	30.5	6.1	2.8	.280	7.11	14.7Ω/M'	5.1Ω/M'	35	115	63	207	
CMG	Chart 1	500		152.4	28.5	12.9			48.2Ω/km	16.7Ω/km							
CEC:	(Tech Info Section)	1000		304.8	57.0	25.9											
	9946	NEC:	10	See	100	30.5	6.6	3.0	.300	7.62	14.7Ω/M'	4.6Ω/M'	35	115	63	207	
CMG	Chart 1	500		152.4	31.5	14.3			48.2Ω/km	15.1Ω/km							
CEC:	(Tech Info Section)	1000		304.8	62.0	28.1											
	9947	NEC:	15	See	100	30.5	8.7	4.0	.340	8.64	14.7Ω/M'	4.1Ω/M'	35	115	63	207	
CMG	Chart 2R	500		152.4	42.5	19.3			48.2Ω/km	13.5Ω/km							
CEC:	(Tech Info Section)	1000		304.8	83.0	37.7											
	9948	NEC:	25	See	100	30.5	13.3	6.0	.410	10.41	14.7Ω/M'	3.1Ω/M'	35	115	63	207	
CMG	Chart 2R	500		152.4	66.5	30.2			48.2Ω/km	10.2Ω/km							
CEC:	(Tech Info Section)	1000		304.8	132.0	59.9											
	9949	NEC:	37	See	100	30.5	16.1	7.3	.460	11.68	14.7Ω/M'	2.7Ω/M'	35	115	63	207	
CMG	Chart 2R	500		152.4	87.5	39.7			48.2Ω/km	8.9Ω/km							
CEC:	(Tech Info Section)	1000		304.8	180.0	81.7											
	9950	NEC:	50	See	100	30.5	25.2	11.4	.555	14.10	14.7Ω/M'	2.3Ω/M'	35	115	63	207	
CMG	Chart 2R	500		152.4	118.0	53.6			48.2Ω/km	7.5Ω/km							
CEC:	(Tech Info Section)	1000		304.8	238.0	108.1											

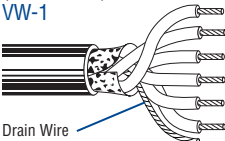
DCR = DC Resistance

*Capacitance between conductors.

**Nominal capacitance conductor to conductor and shield.

Overall Shield

Data Cables for Molex SEMMCONN and AMP® SDL Connectors
Computers, Instrumentation and Medical Electronics Interconnect Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
26 AWG Stranded (7x34) Tinned Copper Conductors • Duofoil® Shield (100% Coverage) • 26 AWG Stranded Tinned Copper Drain Wire														
PVC Insulation • Black PVC Jacket														
UL AWM Style 2464 (300V 80°C) VW-1  Drain Wire	1211A	NEC: CL2X	4	White, Yellow, Orange, Green	500 1000	152.4 304.8	12.0 23.0	5.4 10.4	.015 .38	.036 .91	.195 4.95			
	1212A	NEC: CL2X	6	Red, Blue, Green, Orange, Yellow, White	500 1000	152.4 304.8	14.5 30.0	6.6 13.6	.015 .38	.037 .93	.220 5.59			
	1213A	NEC: CL2X	8	Black, Purple, Red, Blue, Green, Orange, Yellow, White	500 1000	152.4 304.8	12.0 24.0	5.4 10.4	.015 .38	.039 .98	.239 6.07			
	1214A	NEC: CL2X	16	White & Red, White & Brown, White & Black, Black, Red, Brown, Purple, Blue, Green, Gray, Aqua, Tan, Pink, Orange, White, Yellow	1000	304.8	57.0	25.9	.015 .38	.035 .89	.301 7.65			

AMP is a registered trademark of AMP, Inc.

Overall Shield

Direct Burial Cables

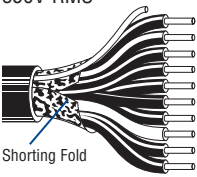
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

20 AWG Solid Tinned Copper Conductors • Conductors Cabled • Overall Beldfoil® Shield (100% Coverage) • 22 AWG Solid TC Drain Wire

Polypropylene Insulation • Black HDPE Jacket

350V 80°C 	9802	—	2	White, Black	500	152.4	9.0	4.1	.013	.33	.035	.89	.190	4.83	32	104	42	138
					1000	304.8	18.0	8.2										

Polypropylene Insulation • Black HDPE Jacket

350V RMS 	9803	—	3	White, Red, Black	1000	304.8	23.0	10.5	.013	.33	.035	.89	.205	5.21	23	75	42	138
	9890	—	10	See Chart 1 (Tech Info Section)	500	152.4	33.0	15.0	.013	.33	.040	1.02	.310	7.87	23	75	42	138
					1000	304.8	65.0	29.5										
	9894	—	15	See Chart 2 (Tech Info Section)	1000	304.8	96.0	43.6	.013	.33	.045	1.14	.390	9.91	23	75	42	138

HDPE = High-density Polyethylene • TC = Tinned Copper

*Capacitance between conductors.

**Nominal capacitance conductor to conductor and shield.

Plenum-Rated

Unshielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled**Plenum • FEP Insulation • Red FEP Jacket**

300V RMS	88444	NEC:	4	Black,	100	30.5	2.9	1.3	.006	.15	.010	.25	.121	3.07
		CMP		White,	500 [†]	152.4	9.0	4.1						
		CEC:		Red,	1000 [†]	304.8	15.0	6.8						
		CMP FT6		Green										

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS	82444	NEC:	4	Black,	U-500 [†]	U-152.4	9.0	4.1	.006	.15	.015	.38	.134	3.40
		CMP		White,	U-1000 [†]	U-304.8	16.0	7.3						
		CEC:		Red,	1000 [†]	304.8	15.0	6.8						
		CMP FT6		Green										

22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs**Plenum • FEP Insulation • Red FEP Jacket**

300V RMS	88442	NEC:	2	Black,	100	30.5	2.3	1.0	.006	.15	.012	.30	.102	2.59
		CMP		Red	500 [†]	152.4	5.5	2.5						
		CEC:			1000 [†]	304.8	8.0	3.7						
		CMP FT6												

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flamarrest Jacket

300V RMS	82442	NEC:	2	Black,	U-1000 [†]	U-304.8	9.0	4.1	.006	.15	.015	.38	.113	2.87
		CMP		Red	1000 [†]	304.8	8.0	3.7						
		CEC:												
		CMP FT6												

18 AWG Stranded (19x30) Tinned Copper Conductors • Conductors Cabled**Plenum • FEP Insulation • Red FEP Jacket**

300V RMS	88489	NEC:	4	Black,	500 [†]	152.4	14.5	6.6	.007	.18	.009	.23	.161	4.09
		CMP		White,	1000 [†]	304.8	29.0	13.2						
		CEC:		Red,										
		CMP FT6		Green										

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flamarrest Jacket

300V RMS	82489	NEC:	4	Black,	U-1000 [†]	U-304.8	31.0	14.1	.007	.18	.014	.36	.170	4.32
		CMP		White,	1000 [†]	304.8	29.0	13.2						
		CEC:		Red,										
		CMP FT6		Green										

[†]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

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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

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

Plenum • FEP Insulation • Red FEP Jacket

	88770	NEC:	3	Black, White, Red	500 [†]	152.4	16.0	7.3	.007	.18	.014	.36	.161	4.09	54	177	96	315
		CMP			1000 [†]	304.8	32.0	14.6										
		CEC: CMP FT6																
	89418	NEC:	4	Black, White, Red, Green	100	30.5	5.5	2.5	.007	.18	.014	.36	.177	4.50	30	98	57	187
		CMP			500 [†]	152.4	18.0	8.2										
		CEC: CMP FT6			1000 [†]	304.8	36.0	16.4										

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flamarrest® Jacket

	82418	NEC:	4	Black, White, Red, Green	U-1000 ^{††}	U-304.8	36.0	16.4	.007	.18	.014	.36	.176	4.47	30	98	63	207
		CMP			1000 [†]	304.8	38.0	17.3										
		CEC: CMP FT6																

Suitable for Outdoor applications.

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.

^{††}Length may vary 0 to -10%.

Plenum-Rated

Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)																			
Plenum • FEP Insulation • Red FEP Jacket																			
	300V RMS	83503	NEC: CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	9.5 16.0	4.3 7.3	.006 .006	.15 .15	.014 .014	.36 .36	.135 .144	3.43 3.66	20 20	66 66	36 36	118 118
		83504	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	3.5 10.0 20.0	1.6 4.6 9.1	.006 .006	.15 .15	.014 .014	.36 .36	.144 .165	3.66 4.19	20 20	66 66	36 36	118 118
		83506	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	13.0 26.0	6.0 11.9	.006 .006	.15 .15	.014 .014	.36 .36	.165 .188	4.19 4.78	20 20	66 66	36 36	118 118
		83509	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	5.3 17.0 38.0	2.4 7.8 17.3	.006 .006	.15 .15	.014 .014	.36 .36	.188 .207	4.78 5.26	20 20	66 66	36 36	118 118
		83512	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	21.0 45.0	9.6 20.4	.006 .006	.15 .15	.014 .014	.36 .36	.207 .227	5.26 5.77	20 20	66 66	36 36	118 118
		83515	NEC: CMP CEC: CMP FT6	15	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	7.2 25.0 53.0	3.3 11.4 24.1	.006 .006	.15 .15	.014 .014	.36 .36	.227 .277	5.77 6.37	20 20	66 66	36 36	118 118

Suitable for Outdoor and Direct Burial applications.

22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • Overall Beldfoil (100% Coverage) + TC Braid Shield (85% Coverage)

Plenum • FEP Insulation • Red FEP Jacket																			
	300V RMS	83552	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	8.0 16.0	3.7 7.3	.006 .006	.15 .15	.014 .014	.36 .36	.141 .148	3.58 3.76	23 23	75 75	40 40	131 131
		83553	NEC: CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	3.5 11.5 20.0	1.6 5.2 9.1	.006 .006	.15 .15	.014 .014	.36 .36	.148 .159	3.76 4.04	23 23	75 75	40 40	131 131
		83554	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	4.0 12.5 25.0	1.8 5.7 11.4	.006 .006	.15 .15	.014 .014	.36 .36	.159 .183	4.04 4.65	23 23	75 75	40 40	131 131
		83556	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	5.2 16.5 36.0	2.4 7.5 16.3	.006 .006	.15 .15	.014 .014	.36 .36	.183 .209	4.65 5.31	23 23	75 75	40 40	131 131
		83559	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	6.8 23.0 50.0	3.1 10.5 22.7	.006 .006	.15 .15	.014 .014	.36 .36	.209 .234	5.31 5.94	23 23	75 75	40 40	131 131
		83562	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	28.5 60.0	13.0 27.2	.006 .006	.15 .15	.015 .015	.38 .38	.234 .269	5.94 6.83	23 23	75 75	40 40	131 131
		83569	NEC: CMP CEC: CMP FT6	19	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	9.6 44.0 85.0	4.4 20.0 38.6	.006 .006	.15 .15	.015 .015	.38 .38	.269 .319	6.83 7.53	23 23	75 75	40 40	131 131

Suitable for Outdoor and Direct Burial applications.

* 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.

TC = Tinned Copper

Plenum-Rated

Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)**Plenum • FEP Insulation • Red FEP Jacket**

	300V RMS	83602	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	11.0 22.0	5.0 10.0	.006 .15	.014 .36	.157 3.99	26 85	51 167
		83604	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	5.1 16.0 32.0	2.3 7.3 14.6	.006 .15	.014 .36	.178 4.52	26 85	51 167
		83606	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	6.2 21.5 47.0	2.8 9.8 21.3	.006 .15	.014 .36	.207 5.26	26 85	51 167
		83609	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	8.2 30.0 63.0	3.7 13.7 28.6	.006 .15	.014 .36	.238 6.05	26 85	51 167
		83612	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	7.8 35.0 67.0	3.5 15.9 30.4	.006 .15	.014 .36	.265 6.73	26 85	51 167

Suitable for Outdoor and Direct Burial applications.

18 AWG Stranded (19x30) TC Conductors • Conductors Cabled • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)**Plenum • FEP Insulation • Red FEP Jacket**

	300V RMS	83652	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	4.6 13.5 27.0	2.1 6.1 12.3	.007 .18	.014 .36	.175 4.45	33 108	60 197
		83653	NEC: CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	5.4 17.5 39.0	2.5 8.0 17.7	.007 .18	.014 .36	.184 4.67	33 108	60 197
		83654	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	6.2 21.5 46.0	2.8 9.8 20.9	.007 .18	.014 .36	.199 5.05	33 108	60 197
		83656	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	8.1 29.5 62.0	3.7 13.5 28.2	.007 .18	.014 .36	.234 5.94	33 108	60 197
		83659	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	9.8 45.0 88.0	4.4 20.4 40.0	.007 .18	.015 .38	.293 7.44	33 108	60 197
		83662	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	11.9 55.5 109.0	5.4 25.2 49.5	.007 .18	.015 .38	.308 7.82	33 108	60 197

Suitable for Outdoor and Direct Burial applications.

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 Foil/Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)																		
Plenum • FEP Insulation • Red FEP Jacket																		
	83702	NEC:	2	See Chart 2 (Tech Info Section)	100	30.5	5.2	2.4	.007	.18	.014	.36	.196	4.98	35	115	63	207
		CMP			500 [†]	152.4	18.5	8.4										
	CEC:	1000 [†]	304.8	40.0	18.2													
	CMP FT6																	
	83703	NEC:	3	See Chart 2 (Tech Info Section)	500 [†]	152.4	23.0	10.5	.007	.18	.014	.36	.206	5.23	35	115	63	207
		CMP			1000 [†]	304.8	50.0	22.7										
	CEC:																	
	CMP FT6																	
	83704	NEC:	4	See Chart 2 (Tech Info Section)	100	30.5	8.0	3.6	.007	.18	.014	.36	.223	5.66	35	115	63	207
		CMP			500 [†]	152.4	29.0	13.2										
CEC:	1000 [†]	304.8	62.0	28.1														
CMP FT6																		
83706	NEC:	6	See Chart 2 (Tech Info Section)	100	30.5	9.7	4.4	.007	.18	.014	.36	.265	6.73	35	115	63	207	
	CMP			500 [†]	152.4	44.5	20.2											
CEC:	1000 [†]	304.8	87.0	39.5														
CMP FT6																		
83709	NEC:	9	See Chart 2 (Tech Info Section)	100	30.5	11.5	5.2	.007	.18	.014	.36	.307	7.80	35	115	63	207	
	CMP			500 [†]	152.4	61.0	27.7											
CEC:	1000 [†]	304.8	120.0	54.5														
CMP FT6																		
83712	NEC:	12	See Chart 2 (Tech Info Section)	100	30.5	14.8	6.8	.007	.18	.014	.36	.344	8.74	35	115	63	207	
	CMP			500 [†]	152.4	78.0	35.4											
CEC:	1000 [†]	304.8	153.0	69.5														
CMP FT6																		
83715	NEC:	15	See Chart 2 (Tech Info Section)	100	30.5	18.1	8.3	.007	.18	.014	.36	.407	10.34	35	115	63	207	
	CMP			500 [†]	152.4	95.0	43.1											
CEC:	1000 [†]	304.8	190.0	86.3														
CMP FT6																		
83719	NEC:	19	See Chart 2 (Tech Info Section)	100	30.5	21.8	9.9	.007	.18	.014	.36	.403	10.24	35	115	63	207	
	CMP			500 [†]	152.4	113.5	51.5											
CEC:	1000 [†]	304.8	227.0	103.0														
CMP FT6																		

Suitable for Outdoor and Direct Burial applications.

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.

High-Temperature

Unshielded

Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled

Tefzel® Insulation • Clear Tefzel Jacket

300V RMS 150°C VW-1	85220	—	2	Black, Red	100 1000 [†]	30.5 304.8	3.8 23.0	1.7 10.4	.015 .38	.020 .51	.185 4.70			
------------------------	-------	---	---	---------------	--------------------------	---------------	-------------	-------------	-------------	-------------	--------------	--	--	--



16 AWG Stranded (19x29) Tinned Copper Conductors • Conductors Cabled

Tefzel Insulation • Clear Tefzel Jacket

300V RMS 150°C VW-1	85221	—	2	Black, Red	500 [†] 1000 [†]	152.4 304.8	15.0 34.0	6.8 15.4	.015 .38	.019 .48	.211 5.36			
------------------------	-------	---	---	---------------	---------------------------------------	----------------	--------------	-------------	-------------	-------------	--------------	--	--	--



85102	—	2	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	14.0 32.0	6.4 14.5	.015 .38	.019 .48	.211 5.36				
-------	---	---	--	---------------------------------------	----------------	--------------	-------------	-------------	-------------	--------------	--	--	--	--

85103	—	3	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	20.0 43.0	9.1 19.5	.015 .38	.019 .48	.223 5.66				
-------	---	---	--	---------------------------------------	----------------	--------------	-------------	-------------	-------------	--------------	--	--	--	--

85105	—	5	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	35.0 68.0	15.9 30.9	.015 .38	.019 .48	.268 6.81				
-------	---	---	--	---------------------------------------	----------------	--------------	--------------	-------------	-------------	--------------	--	--	--	--

85107	—	7	See Chart 2 (Tech Info Section)	100 1000 [†]	30.5 304.8	11.5 105.0	5.2 47.7	.015 .38	.024 .61	.303 7.70				
-------	---	---	--	--------------------------	---------------	---------------	-------------	-------------	-------------	--------------	--	--	--	--

85109	—	9	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	59.0 119.0	26.8 54.0	.015 .38	.024 .61	.354 8.99				
-------	---	---	--	---------------------------------------	----------------	---------------	--------------	-------------	-------------	--------------	--	--	--	--

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

Tefzel insulated and jacketed cables are particularly well suited for harsh environments due to outstanding mechanical toughness of the material, as well as its high-temperature and radiation resistant characteristics.

Tefzel cables are used extensively in chemical plants, nuclear plants, and fossil fuel power plants. Typical applications are data recording, communication, telemetry, and monitoring pressure or material flow.

Tefzel is a DuPont trademark.

High-Temperature

Overall Beldfoil® Shield

Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 • Conductors Cabled • Special Beldfoil Shield (100% Coverage) • 22 AWG (7x30) Stranded TC Drain Wire

FEP Insulation • Red Silicone Rubber Jacket • Noise Reducing Tape

Jacket working voltage 2000V DC, shield to ground VW-1	83394	AWM 4516	2	Black, White	100 500 [†]	30.5 152.4	3.6 14.5	1.6 6.6	.015 500 [†]	.38 152.4	.030 13.0	.76 5.9	.199	5.05	22	72	40	131
--	--------------	-------------	---	-----------------	-------------------------	---------------	-------------	------------	--------------------------	--------------	--------------	------------	------	------	----	----	----	-----



70°C (min.) to 150°C (max.) operating temperature.

Jacket working voltage 2000V DC, shield to ground VW-1	83395	AWM 4516	3	Black, Red, White	100 500 [†]	30.5 152.4	3.9 14.0	1.8 6.4	.015 500 [†]	.38 152.4	.031 14.0	.79 6.4	.208	5.28	22	72	40	131
--	--------------	-------------	---	-------------------------	-------------------------	---------------	-------------	------------	--------------------------	--------------	--------------	------------	------	------	----	----	----	-----



70°C (min.) to 150°C (max.) operating temperature.

	83396	AWM 4516	4	Black, White, Red, Green	100 500 [†]	30.5 152.4	3.9 16.0	1.8 7.3	.015 500 [†]	.38 152.4	.030 16.0	.76 7.3	.217	5.51	22	72	40	131
--	--------------	-------------	---	-----------------------------------	-------------------------	---------------	-------------	------------	--------------------------	--------------	--------------	------------	------	------	----	----	----	-----

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

FEP Insulation • Yellow Silicone Rubber Jacket • Noise Reducing Tape

Jacket working voltage 2000V DC, shield to ground VW-1	83393	AWM 4516	2	Black, Red	100 ^{††} 500 [†]	30.5 152.4	4.2 18.5	1.9 8.4	.020 500 [†]	.51 152.4	.030 17.0	.76 7.8	.242	6.15	22	72	40	131
--	--------------	-------------	---	---------------	---------------------------------------	---------------	-------------	------------	--------------------------	--------------	--------------	------------	------	------	----	----	----	-----



70°C (min.) to 150°C (max.) operating temperature.

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

Tefzel® Insulation • Clear Tefzel Jacket

300V RMS 150°C VW-1	85230	—	2	Black, Red	500 [†] 1000 [†]	152.4 304.8	12.5 29.0	5.7 13.2	.015 500 [†]	.38 304.8	.020 29.0	.51 13.2	.182	4.62	31	102	59	194
------------------------	--------------	---	---	---------------	---------------------------------------	----------------	--------------	-------------	--------------------------	--------------	--------------	-------------	------	------	----	-----	----	-----



300V RMS 150°C VW-1	85240	—	3	Black, Red, Green	100 1000 [†]	30.5 304.8	4.6 30.0	2.1 13.6	.015 500 [†]	.38 304.8	.020 30.0	.51 13.6	.193	4.90	27	87	48	157
------------------------	--------------	---	---	-------------------------	--------------------------	---------------	-------------	-------------	--------------------------	--------------	--------------	-------------	------	------	----	----	----	-----



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

Tefzel Insulation • Clear Tefzel Jacket

300V RMS 150°C VW-1	85231	—	2	Black, Red	100 500 [†] 1000 [†]	30.5 152.4 304.8	5.6 17.0 38.0	2.5 7.8 17.3	.020 500 [†] 1000 [†]	.51 152.4 304.8	.020 17.0 38.0	.51 7.8 17.3	.210	5.33	44	144	79	259
------------------------	--------------	---	---	---------------	--	------------------------	---------------------	--------------------	---	-----------------------	----------------------	--------------------	------	------	----	-----	----	-----



300V RMS 150°C VW-1	85241	—	3	Black, Red, Green	500 [†] 1000 [†]	152.4 304.8	22.5 49.0	10.3 22.3	.020 500 [†] 1000 [†]	.51 152.4 304.8	.020 22.3 49.0	.51 22.3 49.0	.223	5.66	34	112	61	201
------------------------	--------------	---	---	-------------------------	---------------------------------------	----------------	--------------	--------------	---	-----------------------	----------------------	---------------------	------	------	----	-----	----	-----



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.

^{††}100 ft. put-up one piece, exact length.

Tefzel and Kapton are DuPont trademarks.

High-Temperature

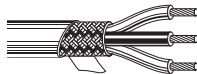
Overall Braid Shield — Control and Instrumentation Cables

MIL-W-16878/4 (Type E) — Individual Conductors

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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

26 AWG Stranded (7x34) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

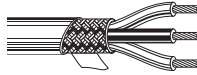
Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	83303E	—	1	White	500 ^{††} 1000 [▲]	152.4 304.8	3.5 6.0	1.6 2.7	.010	.25	.010	.25	.076	1.93	—	—	44.6	146
	83317E	—	2	White, Black	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	1.4 6.5 14.0	0.6 3.0 6.4	.010	.25	.011	.28	.121	3.07	20.8	68	35.5	116
	83332E	—	3	White, Black, Red	100 [†] 1000 [▲]	30.5 304.8	1.7 17.0	0.8 7.7	.010	.25	.011	.28	.127	3.23	18.8	62	31.4	103
	83347E	—	4	White, Black, Red, Green	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	1.9 10.0 19.0	0.9 4.5 8.6	.010	.25	.011	.28	.137	3.48	18.5	61	30.5	100

MIL-Spec MIL-W-16878/4 (Type E).

24 AWG Stranded (19x36) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

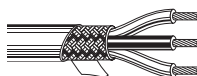
Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	83304E	—	1	White	500 ^{††} 1000 [▲]	152.4 304.8	4.5 8.0	2.0 3.6	.010	.25	.010	.25	.085	2.16	—	—	46	151
	83318E	—	2	White, Black	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	1.6 7.5 16.0	0.7 3.4 7.3	.010	.25	.011	.28	.131	3.33	26.5	87	42.4	139
	83333E	—	3	White, Black, Red	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8 304.8	1.9 10.0 19.0	0.9 4.5 8.6	.010	.25	.011	.28	.137	3.48	21.9	72	36.8	121
	83348E	—	4	White, Black, Red, Green	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	2.3 12.0 23.0	1.0 5.4 10.4	.010	.25	.011	.28	.149	3.79	21.9	72	36.8	121

Complies with MIL-W-16878/4 (Type E) except stranding.

22 AWG Stranded (19x34) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	83305E	—	1	White	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	1.1 5.0 9.0	0.5 2.3 4.1	.010	.25	.010	.25	.091	2.31	—	—	57.9	190
	83319E	—	2	White, Black	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	1.9 10.0 19.0	0.9 4.5 8.6	.010	.25	.011	.28	.143	3.63	29.9	98	49.2	161
	83334E	—	3	White, Black, Red	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	2.7 12.5 24.0	1.2 5.7 10.9	.010	.25	.011	.28	.150	3.81	27.4	90	45.7	150
	83349E	—	4	White, Black, Red, Green	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	3.1 14.5 28.0	1.4 6.6 12.7	.010	.25	.011	.28	.163	4.14	27.4	90	45.7	150

Complies with MIL-W-16878/4 (Type E) except stranding.

*Capacitance between conductors.

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

[†] 100 ft. put-up one piece, exact length.

^{††} 500 ft. put-up exact, but may contain up to 3 pieces. Minimum length of any one piece is 25 ft.

[▲] Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

High-Temperature

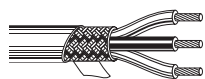
Overall Braid Shield — Control and Instrumentation Cables

MIL-W-16878/4 (Type E) — Individual Conductors

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 (19x32) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

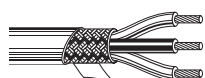
Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	83306E	—	1	White	100 [†] 1000 [▲]	30.5 304.8	1.4 14.0	0.6 6.4	.010	.25	.010	.25	.099	2.52	—	—	69	226
	83320E	—	2	White, Black	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	2.6 12.0 23.0	1.2 5.4 10.4	.010	.25	.011	.28	.159	4.04	31.7	104	51	167
	83335E	—	3	White, Black, Red	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	3.3 15.5 30.0	1.5 7.0 13.6	.010	.25	.011	.28	.168	4.27	31.7	104	51	167
	83350E	—	4	White, Black, Red, Green	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	4.0 19.0 37.0	1.8 8.6 16.8	.010	.25	.011	.28	.183	4.65	31.7	104	51	167

Complies with MIL-W-16878/4 (Type E) except stranding.

18 AWG Stranded (19x30) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

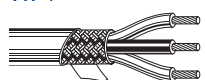
Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	83307E	—	1	White	1000 [▲]	304.8	17.0	7.7	.011	.28	.010	.25	.109	2.77	—	—	71.5	235
	83321E	—	2	White, Black	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	3.2 15.0 29.0	1.5 6.8 13.2	.011	.28	.011	.28	.179	4.55	31	102	52.8	173
	83336E	—	3	White, Black, Red	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	4.2 20.0 39.0	1.9 9.1 17.7	.011	.28	.011	.28	.189	4.80	31	102	52.8	173
	83351E	—	4	White, Black, Red, Green	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	5.2 25.0 51.0	2.4 11.3 23.1	.011	.28	.011	.28	.207	5.26	31	102	52.8	173

Complies with MIL-W-16878/4 (Type E) except stranding.

16 AWG Stranded (19x29) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	83308E	—	1	White	500 ^{††} 1000 [▲]	152.4 304.8	9.5 20.0	4.3 9.1	.012	.31	.011	.28	.120	3.05	—	—	72.5	238
	83322E	—	2	White, Black	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	3.8 18.0 35.0	1.7 8.2 15.9	.012	.31	.011	.28	.197	5.00	36	118	60	197
	83337E	—	3	White, Black, Red	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	5.0 24.5 49.0	2.3 11.1 22.2	.012	.31	.011	.28	.209	5.31	30.7	101	53	174
	83352E	—	4	White, Black, Red, Green	100 [†] 500 ^{††} 1000 [▲]	30.5 152.4 304.8	6.2 30.5 61.0	2.8 13.8 27.7	.012	.31	.011	.28	.229	5.82	30.2	99	50.8	167

Complies with MIL-W-16878/4 (Type E) except stranding.

*Capacitance between conductors.

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

[†]100 ft. put-up one piece, exact length.

^{††}500 ft. put-up exact, but may contain up to 2 pieces. Minimum length of any one piece is 25 ft.

[▲]1000 ft. put-up exact, but may contain up to 6 pieces. Minimum length of any one piece is 25 ft.

Teflon is a DuPont trademark.

Fire Alarm

Power-Limited Fire Protective Signaling Circuit Cables

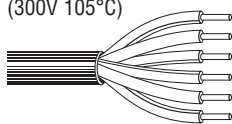
Subject 1424 (NEC Article 760, Type FPLR)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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 Solid Tinned Copper Conductors • Conductors Cabled

PVC Insulation • Black PVC Jacket

UL AWM Style 2464 & 1424 (300V 105°C)	9576	NEC: MPR, FPLR CEC: FAS 105 FT4	6	See Chart 1 (Tech Info Section)	U-500 U-1000	U-152.4 U-304.8	18.0 35.0	8.2 15.9	.013 .33	.039 .99	.234 5.94
--	-------------	--	---	--	-----------------	--------------------	--------------	-------------	-------------	-------------	--------------



18 AWG Solid Bare Copper Conductors • Conductors Cabled

PVC Insulation • Red PVC Jacket

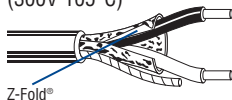
UL AWM Style 2464 & 1424 (300V 105°C)	9571	NEC: MPR, FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 U-1000	U-152.4 U-304.8	14.5 28.0	6.6 12.7	.017 .43	.037 .94	.228 5.79
--	-------------	--	---	---------------	-----------------	--------------------	--------------	-------------	-------------	-------------	--------------



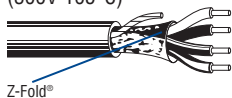
18 AWG Solid Bare Copper Conductors • Conductors Cabled • Overall Beldfoil® Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire

PVC Insulation • Red PVC Jacket

UL AWM Style 2464 & 1424 (300V 105°C)	9574	NEC: MPR, FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 U-1000	U-152.4 U-304.8	16.0 31.0	7.3 14.1	.017 .43	.037 .94	.231 5.87
--	-------------	--	---	---------------	-----------------	--------------------	--------------	-------------	-------------	-------------	--------------



UL AWM Style 2464 & 1424 (300V 105°C)	9578	NEC: MPR, FPLR CEC: FAS 105 FT4	4	Black, Red, Yellow, Light Blue	U-500 1000	U-152.4 304.8	25.5 51.0	11.6 23.2	.017 .43	.037 .94	.263 6.68
--	-------------	--	---	---	---------------	------------------	--------------	--------------	-------------	-------------	--------------



16 AWG Solid Bare Copper Conductors • Conductors Cabled

PVC Insulation • Red PVC Jacket

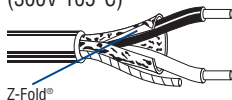
UL AWM Style 2464 & 1424 (300V 105°C)	9572	NEC: MPR, FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 U-1000	U-152.4 U-304.8	18.0 35.0	8.2 15.9	.018 .46	.037 .94	.250 6.35
--	-------------	--	---	---------------	-----------------	--------------------	--------------	-------------	-------------	-------------	--------------



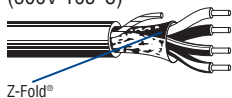
16 AWG Solid Bare Copper Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire

PVC Insulation • Red PVC Jacket

UL AWM Style 2464 & 1424 (300V 105°C)	9575	NEC: MPR, FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 U-1000	U-152.4 U-304.8	20.0 39.0	9.1 17.7	.018 .46	.037 .94	.253 6.43
--	-------------	--	---	---------------	-----------------	--------------------	--------------	-------------	-------------	-------------	--------------



UL AWM Style 2464 & 1424 (300V 105°C)	9579	NEC: MPR, FPLR CEC: FAS 105 FT4	4	Black, Red, Yellow, Light Blue	U-500 1000	U-152.4 304.8	35.5 72.0	16.1 32.7	.018 .46	.042 1.07	.301 7.65
--	-------------	--	---	---	---------------	------------------	--------------	--------------	-------------	--------------	--------------



TC = Tinned Copper

All cables on this page pass the IEEE 383-2003 Flame Test and are listed by the California State Fire Marshall. Component Recognized UL2464.

Fire Alarm

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

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

14 AWG Solid Bare Copper Conductors • Conductors Cabled

PVC Insulation • Red PVC Jacket

UL Style 1424 (300V 105°C)	9580	NEC: FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 1000	U-152.4 304.8	27.0 54.0	12.3 24.5	.022 .56	.042 1.07	.303 7.70		
-------------------------------	-------------	-------------------------------------	---	---------------	---------------	------------------	--------------	--------------	-------------	--------------	--------------	--	--



14 AWG Solid Bare Copper Conductors • Conductors Cabled • Beldfoil® Shield (100% Coverage)

PVC Insulation • Red PVC Jacket

UL Style 1424 (300V 105°C)	9581	NEC: FPLR CEC: FAS 105 FT4	2	Black, Red	U-500 1000	U-152.4 304.8	32.5 65.0	14.7 29.5	.022 .56	.042 1.07	.306 7.77		
-------------------------------	-------------	-------------------------------------	---	---------------	---------------	------------------	--------------	--------------	-------------	--------------	--------------	--	--



12 AWG Solid Bare Copper Conductors • Conductors Cabled

PVC Insulation • Red PVC Jacket

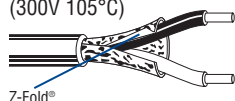
UL Style 1424 (300V 105°C)	9582	NEC: FPLR CEC: FAS 105 FT4	2	Black, Red	1000	304.8	75.0	34.1	.022 .56	.042 1.07	.340 8.64		
-------------------------------	-------------	-------------------------------------	---	---------------	------	-------	------	------	-------------	--------------	--------------	--	--



12 AWG Solid Bare Copper Conductors • Conductors Cabled • Beldfoil Shield (100% Coverage)

PVC Insulation • Red PVC Jacket

UL Style 1424 (300V 105°C)	9583	NEC: FPLR CEC: FAS 105 FT4	2	Black, Red	1000	304.8	85.0	38.6	.022 .56	.042 1.07	.343 8.71		
-------------------------------	-------------	-------------------------------------	---	---------------	------	-------	------	------	-------------	--------------	--------------	--	--



All cables on this page pass the IEEE 383-2003 Flame Test and are listed by the California State Fire Marshall. Component Recognized UL2464, 300V 80°C.

Plenum-Rated Fire Alarm

Power-Limited Fire Protective, Control and Instrumentation Cables

Subject 1424 (NEC Article 760, Type FPLP)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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

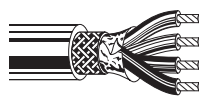
14 AWG Stranded (7x22) TC Conductors • Conductors Cabled • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)

Plenum • FEP Insulation • Red FEP Jacket

	83752	UL Style 2464 & 1424 (300V 200°C)	NEC: FPLP, CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	7.1 31.5 60.0	3.2 14.3 27.2	.016 .41 .015	.38 .267 .38	6.78 30 98	52 171
				3	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	42.5 82.0	19.3 37.2	.016 .41 .015	.38 .284 .38	7.21 30 98	52 171
				4	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	9.8 52.5 102.0	4.5 23.8 46.3	.016 .41 .015	.38 .311 .38	7.90 30 98	52 171
				6	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	14.1 74.5 150.0	6.4 34.0 68.1	.016 .41 .017	.43 .376 .43	9.55 30 98	52 171

12 AWG Stranded (7x20) TC Conductors • Conductors Cabled • Overall Beldfoil (100% Coverage) + TC Braid Shield (85% Coverage)

Plenum • FEP Insulation • Red FEP Jacket

	83802	UL Style 2464 & 1424 (300V 200°C)	NEC: FPLP, CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	7.5 41.0 80.0	3.4 18.6 36.3	.016 .41 .015	.38 .303 .38	7.70 32 105	55 180
				3	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	10.6 56.5 111.0	4.8 25.7 50.4	.016 .41 .015	.38 .323 .38	8.20 32 105	55 180
				4	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	13.8 73.0 147.0	6.3 33.1 66.7	.016 .41 .017	.43 .359 .43	9.12 32 105	55 180
				6	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	19.7 213.0 96.7	9.0 96.7	.016 .41 .017	.43 .430 .43	10.92 32 105	55 180

TC = Tinned Copper

All cables on this page pass the IEEE 383-2003 Flame Test and are listed by the California State Fire Marshall. Component Recognized UL2464, 300V 80°C.

*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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

[83308E 009500](#) [83303E 009500](#) [83305E 009100](#) [83306E 009100](#) [83305E 0091000](#) [83307E 0091000](#) [83303E](#)
[0091000](#) [83304E 0091000](#) [83308E 0091000](#) [83306E 0091000](#)