



4 Multi-Conductor Cables

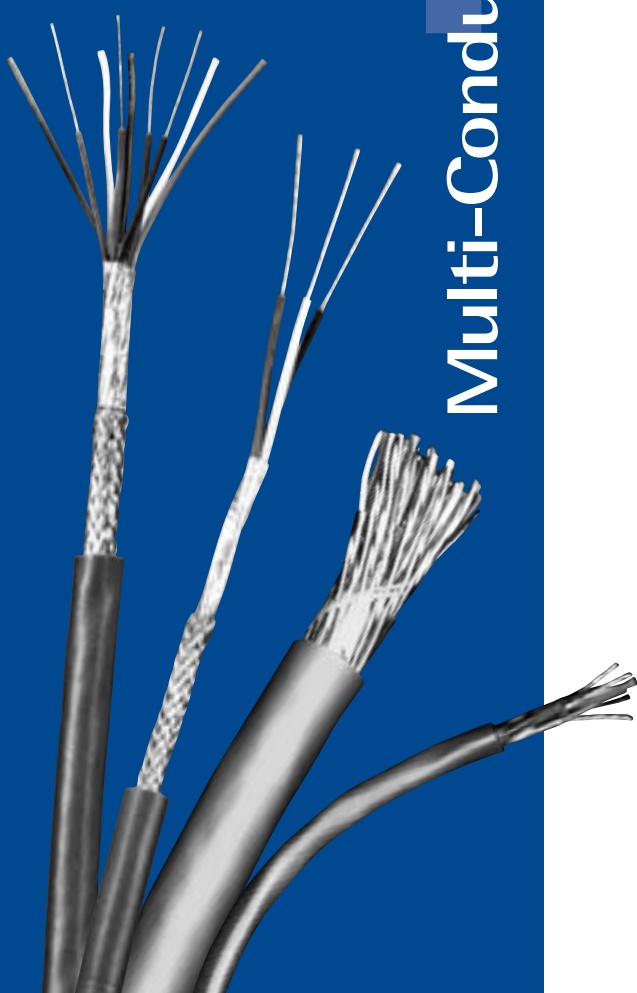


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Introduction

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						
					1000	304.8	25.0	11.4						
	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						
*Twisted pair														
	8443 UL AWM Style 2576 (150V 80°C)	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)	100	30.5	4.7	2.1	.010	.25	.032	.81	.244	6.20
					U-500	U-152.4	21.0	9.6						
					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)	100	30.5	5.0	2.3	.010	.25	.032	.81	.264	6.71
					U-500	U-152.4	22.5	10.2						
					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															
	8457	NEC:	12	See Chart 1 (Tech Info Section)	100	30.5	5.6	2.5	.010	.25	.032	.81	.272	6.91	
		CMG			U-500	U-152.4	25.5	11.6							
		CEC:			500	152.4	26.0	11.8							
		CMG FT4			U-1000	U-304.8	50.0	22.7							
					1000	304.8	52.0	23.6							
	8458	NEC:	15	See Chart 2R (Tech Info Section)	100	30.5	7.3	3.3	.010	.25	.040	1.02	.315	8.00	
CMG	500	152.4			35.5	16.1									
CEC:	1000	304.8			72.0	32.7									
CMG FT4															
	9431	NEC:	20	See Chart 2R (Tech Info Section)	100	30.5	9.1	4.1	.010	.25	.040	1.02	.345	8.76	
CMG	500	152.4			48.5	22.0									
CEC:	1000	304.8			87.0	39.5									
CMG FT4															
	8459	NEC:	25	See Chart 2R (Tech Info Section)	100	30.5	11.1	5.0	.010	.25	.040	1.02	.387	9.83	
CMG	500	152.4			55.0	25.0									
CEC:	1000	304.8			109.0	49.5									
CMG FT4															
	9432	NEC:	30	See Chart 2R (Tech Info Section)	100	30.5	12.5	5.7	.010	.25	.040	1.02	.400	10.16	
CMG	500	152.4			62.5	28.4									
CEC:	1000	304.8			124.0	56.3									
CMG FT4															
	9433	NEC:	40	See Chart 2R (Tech Info Section)	100	30.5	16.6	7.5	.010	.25	.040	1.02	.455	11.56	
CMG	500	152.4			83.0	37.7									
CEC:	1000	304.8			161.0	73.1									
CMG FT4															
	9434	NEC:	50	See Chart 2R (Tech Info Section)	500	152.4	100.5	45.7	.010	.25	.045	1.14	.500	12.70	
CMG	1000	304.8			206.0	93.5									
CEC:															
CMG FT4															

Plenum • FEP Insulation • Red FEP Jacket															
	88442*	NEC:	2	Black, Red	100	30.5	2.3	1.0	.006	.15	.012	.30	.102	2.59	
		CMP			500 [†]	152.4	5.5	2.5							
		CEC:			1000 [†]	304.8	8.0	3.7							
		CMP FT6													
	88444	NEC:	4	Black, White, Red, Green	100	30.5	2.9	1.3	.006	.15	.010	.25	.121	3.07	
CMP	500 [†]	152.4			9.0	4.1									
CEC:	1000 [†]	304.8			15.0	6.8									
CMP FT6															

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flamarrest® Jacket																
	82442*	NEC:	2	Black, Red	U-1000 [†]	U-304.8	9.0	4.1	.006	.15	.015	.38	.113	2.87		
		CMP			1000 [†]	304.8	8.0	3.7								
		CEC:														
		CMP FT6														
	82444	NEC:	4	Black, White, Red, Green	U-500 [†]	U-152.4	9.0	4.1	.006	.15	.015	.38	.134	3.40		
CMP	U-1000 [†]	U-304.8			16.0	7.3										
CEC:	1000 [†]	304.8			15.0	6.8										
CMP FT6																

* Twisted Pair

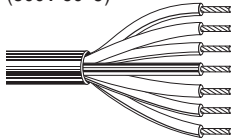
[†]Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

Unshielded

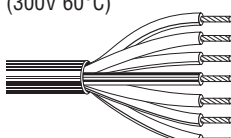
Audio, Control and Instrumentation Cables
Non-Plenum

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															
 <p>UL AWM Style 2464 (300V 80°C)</p>	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			U-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			U-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			U-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														
 <p>UL AWM Style 2598 (300V 60°C)</p>	8489	NEC:	4	See Chart 1 (Tech Info Section)	100	30.5	5.1	2.3	.017	.43	.032	.81	.257	6.53
		CMG			U-500	U-152.4	12.0	5.4						
		CEC:			500	152.4	23.5	10.7						
		CMG FT4			U-1000	U-304.8	46.0	20.9						
					1000	304.8	48.0	21.8						
	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			U-500	152.4	40.5	18.4						
		CEC:			1000	304.8	79.0	35.9						
		CMG FT4												
	8469	NEC:	9	See Chart 1 (Tech Info Section)	100	30.5	10.5	4.8	.017	.43	.037	.94	.364	9.25
		CMG			U-500	152.4	26.0	11.8						
		CEC:			500	152.4	51.5	23.4						
		CMG FT4			U-1000	U-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			U-500	152.4	32.5	14.8						
		CEC:			500	152.4	66.0	30.0						
		CMG FT4			U-1000	U-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			U-500	152.4	89.5	40.6						
		CEC:			1000	304.8	175.0	79.5						
		CMG FT4												



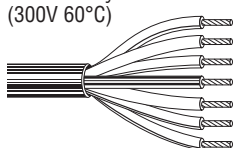
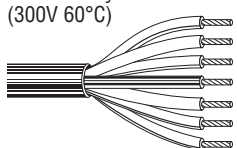
Unshielded

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

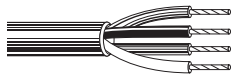
	8619	UL AWM Style 2598 (300V 60°C)	NEC: 19	See	100	30.5	20.3	9.2	.017	.43	.045	1.14	.490	12.45
		CMG	Chart 2R	500	152.4	101.0	45.9							
		CEC: CMG FT4	(Tech Info Section)	1000	304.8	198.0	90.0							
	9626	UL AWM Style 2598 (300V 60°C)	NEC: 25	See	100	30.5	29.1	13.2	.017	.43	.060	1.52	.612	15.54
	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

Plenum • FEP Insulation • Red FEP Jacket

	88489	300V RMS	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

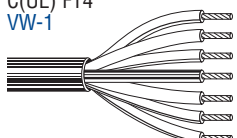
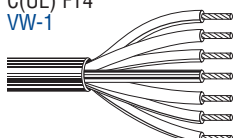
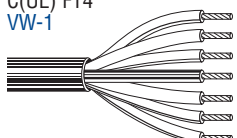
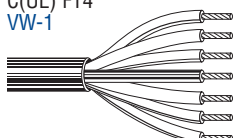
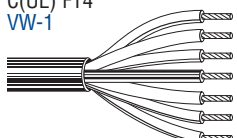
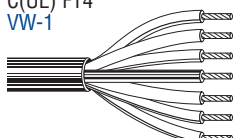
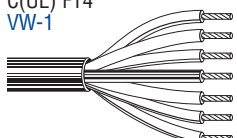
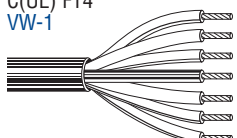
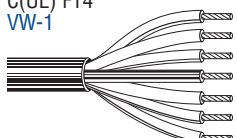
	82489	300V RMS	NEC: 4	Black, White, Red, Green	U-1000 [†]	U-304.8	31.0	14.1	.007	.18	.014	.36	.170	4.32
		CMP		1000 [†]	304.8	29.0	13.2							
		CEC: CMP FT6												

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

PVC Insulation • Cabled Wire (No Jacket)

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

	8620	600V RMS 80°C C(UL) FT4 VW-1	—	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.

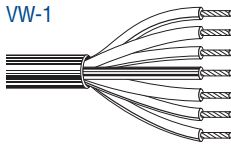
Unshielded

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

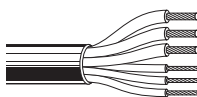
PVC Insulation • Chrome PVC Jacket														
	8627	—	4	See Chart 2 (Tech Info Section)	100	30.5	13.8	6.3	.045	1.14	.045	1.14	.490	12.45
					500	152.4	76.5	34.7						
					1000	304.8	149.0	67.6						
	9623	—	5	See Chart 2 (Tech Info Section)	100	30.5	18.1	8.3	.045	1.14	.060	1.52	.573	14.55
					500	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

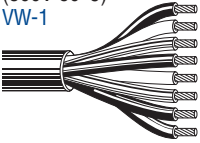
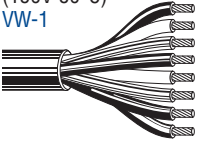
*Capacitance between conductors.
**Nominal capacitance conductor to conductor and shield.

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
					Brown, Red, Yellow, Blue, Orange, Green	6@18 (16x30)	1000	304.8	92.0	41.8			.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
					Red, Green, Brown, Blue, Yellow, Orange	6@22 (7x30)	U-1000	U-304.8	49.0	22.2			.010	.25	

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
						U-1000	U-304.8	24.0	10.9						
						1000	304.8	25.0	11.4						

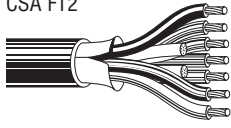
Duplex Primary Wire Stranded Bare Copper Conductors • Conductors Parallel

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
																		.168	4.27
																		.290	7.37
	8675	—	2	Brown, Red	14 (19x27)	500	152.4	23.5	10.7	.023	.58	.023	.58	.168	4.27				
														x	x				
														.328	8.33				
	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:	5	See Chart 2 (Tech Info Section)	100	30.5	13.3	6.0	.033	.838	.084	2.13	.506	12.85	
		SO			500	152.4	73.5	33.4							
		CSA: SO			1000	304.8	143.0	65.0							
	9422	UL:	7	See Chart 2 (Tech Info Section)	100	30.5	18.5	8.4	.033	.838	.083	2.11	.581	14.76	
		SO			500	152.4	101.0	45.9							
		CSA: SO			1000	304.8	201.0	91.3							
9424	UL:	9	See Chart 2 (Tech Info Section)	100	30.5	29.6	13.4	.033	.838	.100	2.54	.720*	18.29		
	SO			500	152.4	150.5	68.3								
	CSA: SO			1000	304.8	288.0	130.8								
9425	UL:	12	See Chart 2 (Tech Info Section)	100	30.5	32.6	14.8	.033	.838	.100	2.54	.720	18.29		
	SO			500	152.4	165.5	75.1								
	CSA: SO			1000	304.8	318.0	144.4								
9427	UL:	16	See Chart 2 (Tech Info Section)	100	30.5	39.5	17.9	.033	.838	.100	2.54	.787	19.99		
	SO			500	152.4	428.0	194.3								
	CSA: SO			1000	304.8	428.0	194.3								
9429	UL:	20	See Chart 2 (Tech Info Section)	100	30.5	48.4	22.0	.033	.838	.100	2.54	.862	21.89		
	SO			500	152.4	233.0	105.8								
	CSA: SO			1000	304.8	233.0	105.8								

EPDM = Ethylene Propylene Diene Monomer

*Fillers added in the center

Overall Beldfoil® Shield

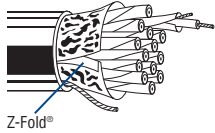
Computer Cable for Synchronous EIA Interface

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
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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.

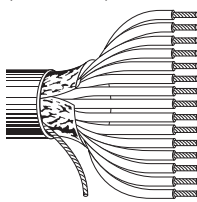
Color Codes

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 CMG CEC: CMG FT4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.7 9.5 9.0 18.0 18.0	1.2 4.3 4.1 8.2 8.2	.010 .25 .032 .81 .162	.032 .81 .162	.162 4.11	33 108 65 213	33 108 65 213	65 213	213			
	9534	NEC: 4 CMG CEC: CMG FT4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.0 11.0 11.5 21.0 22.0	1.4 5.0 5.2 9.5 10.0	.010 .25 .032 .81 .184	.032 .81 .184	.184 4.67	33 108 65 213	33 108 65 213	65 213	213				
	9535	NEC: 5 CMG CEC: CMG FT4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.2 12.0 11.0 23.0 22.0	1.5 5.4 5.0 10.4 10.0	.010 .25 .032 .81 .189	.032 .81 .189	.189 4.80	33 108 65 213	33 108 65 213	65 213	213				
	9536	NEC: 6 CMG CEC: CMG FT4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.6 14.5 12.5 27.0 29.0	1.6 6.6 5.7 12.3 13.2	.010 .25 .032 .81 .209	.032 .81 .209	.209 5.31	33 108 65 213	33 108 65 213	65 213	213				
	9537	NEC: 7 CMG CEC: CMG FT4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.7 15.0 13.5 29.0 30.0	1.7 6.8 6.2 13.2 13.7	.010 .25 .032 .81 .209	.032 .81 .209	.209 5.31	33 108 65 213	33 108 65 213	65 213	213				
	9538	NEC: 8 CMG CEC: CMG FT4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.8 17.0 15.0 32.0 34.0	1.7 7.7 6.8 14.6 15.4	.010 .25 .032 .81 .224	.032 .81 .224	.224 5.69	33 108 65 213	33 108 65 213	65 213	213				
	9539	NEC: 9 CMG CEC: CMG FT4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.2 20.0 17.0 37.0 38.0	1.9 9.1 7.8 16.9 17.3	.010 .25 .032 .81 .244	.032 .81 .244	.244 6.20	30 98 55 180	30 98 55 180	55 180	180				
	9540	NEC: 10 CMG CEC: CMG FT4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.3 19.5 18.0 38.0 36.0	2.0 8.9 8.2 17.2 16.4	.010 .25 .032 .81 .244	.032 .81 .244	.244 6.20	30 98 55 180	30 98 55 180	55 180	180				
	9541	NEC: 15 CMG CEC: CMG FT4	See Chart 2R (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.9 27.5 28.0 54.0 56.0	2.7 12.5 12.7 24.5 25.4	.010 .25 .032 .81 .284	.032 .81 .284	.284 7.21	30 98 55 180	30 98 55 180	55 180	180				
	9542	NEC: 20 CMG CEC: CMG FT4	See Chart 2R (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	7.3 34.0 35.5 69.0 69.0	3.3 15.4 16.1 31.3 31.3	.010 .25 .032 .81 .314	.032 .81 .314	.314 7.98	30 98 55 180	30 98 55 180	55 180	180				
	9543	NEC: 25 CMG CEC: CMG FT4	See Chart 2R (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	8.7 44.0 44.0 86.0 86.0	4.0 20.0 20.0 39.0 39.0	.010 .25 .032 .81 .339	.032 .81 .339	.339 8.61	30 98 55 180	30 98 55 180	55 180	180				
	9544	NEC: 30 CMG CEC: CMG FT4	See Chart 2R (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	10.3 51.5 51.5 102.0 102.0	4.7 23.4 23.4 46.3 46.3	.010 .25 .040 1.02 .380	.032 .81 1.02 .380	.380 9.65	30 98 55 180	30 98 55 180	55 180	180				
	9545	NEC: 40 CMG CEC: CMG FT4	See Chart 2R (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	13.5 65.0 65.0 130.0 130.0	6.1 29.5 29.5 59.0 59.0	.010 .25 .040 1.02 .430	.032 .81 1.02 .430	.430 10.92	30 98 55 180	30 98 55 180	55 180	180				
	9546	NEC: 50 CMG CEC: CMG FT4	See Chart 2R (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	16.4 81.5 81.5 168.0 168.0	7.4 37.0 37.0 76.3 76.3	.010 .25 .045 1.14 .490	.032 .81 1.14 .490	.490 12.45	30 98 55 180	30 98 55 180	55 180	180				

TC = Tinned Copper

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



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

Overall Beldfoil® Shield

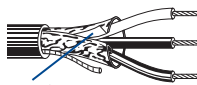
Audio, Control and Instrumentation Cables

Non-Plenum

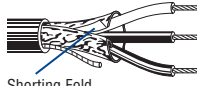
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

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

Polypropylene Insulation • Brown PVC Jacket

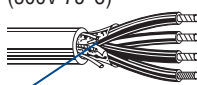
 <p>Z-Fold®</p>	300V RMS 9770	NEC:	3	Black,	U-500	U-152.4	9.0	4.1	.008	.20	.020	.51	.145	3.68	32	105	60	197
		CM:		Red,	500	152.4	9.0	4.1										
		CEC:		White	U-1000	U-304.8	18.0	8.2										
		CM			1000	304.8	17.0	7.7										

Polyethylene Insulation • Chrome PVC Jacket

 <p>Shorting Fold</p>	UL AWM Style 2093 (300V 60°C) 8771	NEC:	3	Black,	250	76.2	6.3	2.8	.016	.41	.033	.84	.199	5.05	23	75	41	134
		CM:		Red,	U-500	U-152.4	12.0	5.5										
		CEC:		Clear	500	152.4	12.0	5.5										
		CM			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††

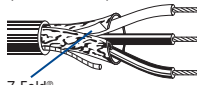
Polyethylene Insulation • White PVC Jacket

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

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

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

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


 <p>Z-Fold®</p>	9418	UL AWM Style 2464 (300V 80°C)	NEC: 4	Red,	100	30.5	5.6	2.6	.010	.25	.035	.89	.245	6.22	70	230	120	394	
		CMG	Green,	U-500	U-152.4	18.0	8.2												
		CEC: Black,	500	152.4	24.5	11.1													
		CMG FT4	White	U-1000	U-304.8	35.0	16.0												
					1000	304.8	52.0	23.7											
					10000††	3048.0	510.0	231.3											

For Plenum versions of 9418, see 89418 or 82418.

Plenum • FEP Insulation • Red FEP Jacket


	88770	(-70°C to +200°C)	NEC: 3	Black,	500	152.4	16.0	7.3	.007	.18	.014	.36	.161	4.09	54	177	96	315
		CMP	White,	1000	304.8	32.0	14.6											
		CEC: Red																
		CMP FT6																

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

	89418	(-70°C to +200°C)	NEC: 4	Black,	100	30.5	5.5	2.5	.007	.18	.014	.36	.177	4.50	30	98	57	187
		CMP	White,	500†	152.4	18.0	8.2											
		CEC: Red,																
		CMP FT6	Green	1000†	304.8	36.0	16.4											


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

Plenum • FEP Insulation • Natural Flammarrest® Jacket

	82418	(-70°C to +200°C)	NEC: 4	Black,	U-1000▲	U-304.8	36.0	16.4	.007	.18	.014	.36	.176	4.47	30	98	63	207
		CMP	White,	1000†	304.8	38.0	17.2											
		CEC: Red,																
		CMP FT6	Green															

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

Polyethylene Insulation • Chrome PVC Jacket

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

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 0.15	.014 0.36	.096 2.44	25 635	82 2083	43 1092	141 3583
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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 0.38	.025 0.64	.202 5.13	34 863	112 2844	60 1524	197 5000
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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:	6	See	100	30.5	7.3	3.3	.016	.41	.032	.81	.305	7.75	26	85	50	164	
		CMG:		Chart 2	500	152.4	35.5	16.1											
		CEC:		(Tech Info Section)	1000	304.8	69.0	31.4											
	9261	NEC:	12	See	100	30.5	12.0	5.5	.016	.41	.040	1.02	.396	10.06	26	85	57	187	
		CMG:		Chart 2R	500	152.4	60.0	27.3											
		CEC:		(Tech Info Section)	1000	304.8	119.0	54.1											



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 0.38	.025 0.64	.194 4.93	—	—	79	259
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†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 0.56	.028 0.71	.260 6.60	47	154	84	276
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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.

4 • Multi-Conductor Cables

Overall Foil/Braid Shield

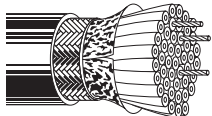
Computer Cables for EIA RS-232 Applications and IEEE 488 Interface,
Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

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

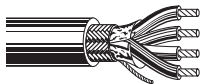
UL AWM Style 2464 (300V 80°C)	9637	NEC:	25	See	100	30.5	6.2	2.8	.305	7.75	64.9Ω/M'	4.5Ω/M'	66%	30	98	50	164
CSA AWM I B FT4		CL2		Chart 2R	500	152.4	30.0	13.6			212.9Ω/km	14.8Ω/km					
				(Tech Info Section)	1000	304.8	59.0	26.8									



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:	6	See	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		CL2		Chart 1	1000	304.8	29.0	13.2			212.9Ω/km	20.2Ω/km					
				(Tech Info Section)													

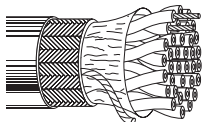


†28 AWG Stranded TC Drain Wire

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:	23:	See	1000	304.8	82.0	37.4	.350	8.89	26 AWG:	2.6Ω/M'	66%	—	—	—	—	
CSA AWM I A		CMG		(6)							Chart 1	37.3Ω/M'						8.5Ω/km
		CEC:		26 AWG							(Tech Info	122.4Ω/km						
		CMG FT4		Pairs							Section)							
				(10)								24 AWG:						23.3Ω/M'
		26 AWG		Cond.	76.4Ω/km													
		(1)																
		24 AWG		Cond.														



TC = Tinned Copper

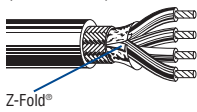
*Capacitance between conductors.

**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																
 <p>Z-Fold®</p>	9608	NEC: CMG CEC: CMG FT4	3	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.1 12.0 23.0	1.4 5.4 10.4	.190 4.83	25.0Ω/M' 82.0Ω/km	9.8Ω/M' 32.2Ω/km	35	115	65	213	
	9609	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.5 13.5 26.0	1.6 6.1 11.8	.200 5.08	25.0Ω/M' 82.0Ω/km	9.8Ω/M' 32.2Ω/km	35	115	65	213	
	9610	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.0 16.0 32.0	1.8 7.3 14.5	.215 5.46	25.0Ω/M' 82.0Ω/km	6.5Ω/M' 21.3Ω/km	35	115	65	213	
	9611	NEC: CMG CEC: CMG FT4	6	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.2 17.0 34.0	1.9 7.7 15.4	.225 5.72	25.0Ω/M' 82.0Ω/km	7.0Ω/M' 23.0Ω/km	30	98.4	55	180	
	9612	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.2 18.5 38.0	1.9 8.4 17.3	.225 5.72	25.0Ω/M' 82.0Ω/km	6.9Ω/M' 22.6Ω/km	30	98.4	55	180	
	9613	NEC: CMG CEC: CMG FT4	8	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.5 21.0 41.0	2.0 9.5 18.6	.240 6.10	25.0Ω/M' 82.0Ω/km	7.3Ω/M' 23.9Ω/km	30	98.4	55	180	
	9614	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.8 22.0 44.0	2.2 10.0 20.0	.253 6.43	25.0Ω/M' 82.0Ω/km	7.5Ω/M' 24.6Ω/km	30	98.4	55	180	
	9615	NEC: CMG CEC: CMG FT4	10	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.4 25.0 50.0	2.5 11.4 22.7	.270 6.86	25.0Ω/M' 82.0Ω/km	6.9Ω/M' 22.6Ω/km	30	98.4	55	180	
	9616	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.6 31.5 63.0	3.0 14.3 28.6	.300 7.62	25.0Ω/M' 82.0Ω/km	6.9Ω/M' 22.6Ω/km	30	98.4	55	180	
	9617	NEC: CMG CEC: CMG FT4	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.1 49.5 100.0	4.6 22.5 45.4	.370 9.40	25.0Ω/M' 82.0Ω/km	5.1Ω/M' 16.7Ω/km	30	98.4	55	180	
9618	NEC: CMG CEC: CMG FT4	37	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.7 66.5 135.0	6.2 30.2 61.3	.411 10.43	25.0Ω/M' 82.0Ω/km	4.4Ω/M' 14.4Ω/km	30	98.4	55	180		
9619	NEC: CMG CEC: CMG FT4	50	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	17.2 93.0 182.0	7.8 42.2 82.6	.485 12.32	25.0Ω/M' 82.0Ω/km	4.3Ω/M' 14.1Ω/km	30	98.4	55	180		

DCR = DC Resistance • TC = Tinned Copper

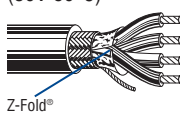
* Capacitance between conductors.

** Nominal capacitance conductor to conductor and shield.

4 • Multi-Conductor Cables

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) 	9925	NEC:	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
		CM:			500	152.4	12.0	5.5			78.7Ω/km	17.0Ω/km					
		CEC: CM			1000	304.8	24.0	10.9									
	9927	NEC:	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
		CM:			500	152.4	14.5	6.6			78.7Ω/km	17.4Ω/km					
		CEC: CM			1000	304.8	32.0	14.5									
	9929	NEC:	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
		CM:			500	152.4	16.0	7.3			78.7Ω/km	13.9Ω/km					
		CEC: CM			1000	304.8	36.0	16.3									
	9931	NEC:	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
		CM:			500	152.4	17.5	8.0			78.7Ω/km	14.4Ω/km					
		CEC: CM			1000	304.8	39.0	17.7									
	9932	NEC:	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
		CM:			500	152.4	18.5	8.4			78.7Ω/km	14.4Ω/km					
		CEC: CM			1000	304.8	41.0	18.6									
	9933	NEC:	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
		CM:			500	152.4	21.0	9.6			78.7Ω/km	14.4Ω/km					
		CEC: CM			1000	304.8	46.0	20.9									
	9934	NEC:	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
		CM:			500	152.4	22.0	10.0			78.7Ω/km	12.6Ω/km					
		CEC: CM			1000	304.8	48.0	21.8									
	9935	NEC:	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
		CM:			500	152.4	28.0	12.7			78.7Ω/km	10.4Ω/km					
		CEC: CM			1000	304.8	53.0	24.1									
	9936	NEC:	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
		CM:			500	152.4	35.0	15.9			78.7Ω/km	11.7Ω/km					
		CEC: CM			1000	304.8	68.0	30.9									
	9937	NEC:	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
		CM:			500	152.4	54.5	24.8			78.7Ω/km	9.1Ω/km					
		CEC: CM			1000	304.8	108.0	49.0									
	9938	NEC:	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
		CM:			500	152.4	71.5	32.5			78.7Ω/km	7.8Ω/km					
		CEC: CM			1000	304.8	139.0	63.1									

†24 AWG Stranded TC Drain Wire

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

**Nominal capacitance conductor to conductor and shield.

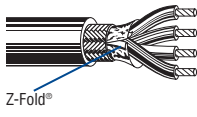
††Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

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																
 <p>UL AWM Style 2464 (300V 80°C)</p> <p>Z-Fold®</p>	9939	NEC: CMG CEC: CMG FT4	3	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	3.6 14.0 27.0	1.6 6.4 12.3	.202 5.13	14.7Ω/M' 48.2Ω/km	6.2Ω/M' 20.3Ω/km	37	121	67	220	
	9940	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.0 16.5 32.0	1.8 7.5 14.5	.215 5.46	14.7Ω/M' 48.2Ω/km	5.0Ω/M' 16.4Ω/km	37	121	67	220	
	9941	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.2 19.0 38.0	1.8 8.6 17.3	.230 5.84	14.7Ω/M' 48.2Ω/km	7.1Ω/M' 23.3Ω/km	37	121	67	220	
	9942	NEC: CMG CEC: CMG FT4	6	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	4.7 22.0 43.0	2.1 10.0 19.5	.245 6.22	14.7Ω/M' 48.2Ω/km	7.9Ω/M' 25.9Ω/km	35	115	63	207	
	9943	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.0 23.5 46.0	2.3 10.8 20.9	.245 6.22	14.7Ω/M' 48.2Ω/km	7.0Ω/M' 23.0Ω/km	35	115	63	207	
	9944	NEC: CMG CEC: CMG FT4	8	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	5.5 26.0 52.0	2.5 11.8 23.6	.260 6.60	14.7Ω/M' 48.2Ω/km	6.0Ω/M' 19.7Ω/km	35	115	63	207	
	9945	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.1 28.5 57.0	2.8 12.9 25.9	.280 7.11	14.7Ω/M' 48.2Ω/km	5.1Ω/M' 16.7Ω/km	35	115	63	207	
	9946	NEC: CMG CEC: CMG FT4	10	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.6 31.5 62.0	3.0 14.3 28.1	.300 7.62	14.7Ω/M' 48.2Ω/km	4.6Ω/M' 15.1Ω/km	35	115	63	207	
	9947	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.7 42.5 83.0	4.0 19.3 37.7	.340 8.64	14.7Ω/M' 48.2Ω/km	4.1Ω/M' 13.5Ω/km	35	115	63	207	
	9948	NEC: CMG CEC: CMG FT4	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	13.3 66.5 132.0	6.0 30.2 59.9	.410 10.41	14.7Ω/M' 48.2Ω/km	3.1Ω/M' 10.2Ω/km	35	115	63	207	
9949	NEC: CMG CEC: CMG FT4	37	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	16.1 87.5 180.0	7.3 39.7 81.7	.460 11.68	14.7Ω/M' 48.2Ω/km	2.7Ω/M' 8.9Ω/km	35	115	63	207		
9950	NEC: CMG CEC: CMG FT4	50	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	25.2 118.0 238.0	11.4 53.6 108.1	.555 14.10	14.7Ω/M' 48.2Ω/km	2.3Ω/M' 7.5Ω/km	35	115	63	207		

DCR = DC Resistance

*Capacitance between conductors.

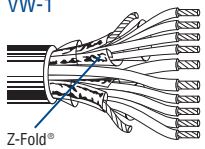
**Nominal capacitance conductor to conductor and shield.

4 • Multi-Conductor Cables

Overall Shield

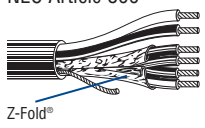
Special Audio, Communication and Instrumentation Cables

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	
24 and 22 AWG Stranded (7x32 and 7x30) Tinned Copper Conductors • Cabled in Quads† • 24 AWG Stranded Tinned Copper Drain Wire																			
PVC Insulation (22 AWG) / Polyethylene Insulation (24 AWG) • Chrome PVC Jacket																			
350V RMS 80°C VW-1	8787	—	10:	Gray, White, Blue, Green	U-500	U-152.4	24.0	10.9	.012	.30	.030	.76	.290	7.37	—	—	—	—	
4 Shld 24 (7x32)			500		152.4	22.5	10.3												
4 Shld 24 (7x32)			Brown, Red, Yellow, Orange																
				2 Unshld 22 (7x30)	White, Blue														



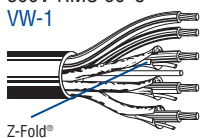
† Each quad wrapped in transparent polyester tape. Red Beldfoil® shield over one quad, Green Beldfoil shield over the other. (2) quads and (2) unshielded conductors cabled.

24 and 22 AWG Stranded (7x32 and 7x30) Tinned Copper Conductors • (4) Conductors Cabled†† • 22 AWG Stranded TC Drain Wire																		
PVC Insulation • Chrome PVC Jacket																		
300V 90°C NEC Article 800	8786	NEC: CM CEC: CM	6:	Black, Green, Red, Yellow	U-500	U-152.4	17.0	7.8	.015	.38	.028	.71	.236	5.99	—	—	—	—
4 Shld 24 (7x32)			500		152.4	16.5	7.5											
2 Unshld 22 (7x30)			Blue, White															



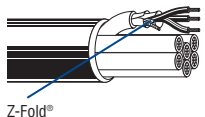
†† (4) conductors cabled under 100% Beldfoil shield; (2) conductors unshielded.

22 AWG Stranded (7x30) TC Conductors • (3) Conductors Cabled and Separately Beldfoil® Shielded (100% Coverage) with Drain Wires* [‡]																		
PVC Insulation • Chrome PVC Jacket																		
300V RMS 60°C VW-1	8788	NEC: CM	5:	Black, Red, Green	500	152.4	15.5	7.1	.015	.38	.028	.71	.236	5.99	34	112	—	—
3 Shld																		
2 Unshld*			Yellow, Blue															



* (2) Unshielded conductors cabled around a non-hygroscopic filler.
[‡] Drain wire for each conductor is tinned cadmium bronze ribbon under 100% Beldfoil shield coverage.

22 AWG Triads Stranded (7x30) Tinned Copper Conductors • Cabled in Triads* • 22 AWG Stranded Tinned Copper Drain Wire																		
Polypropylene Insulation • Overall Chrome PVC Jacket																		
300V RMS 80°C VW-1	9772	—	36	Black, Red, Green, Triads w/Color Coded Jackets	500	152.4	139.0	63.2	.008	.20	.060	1.52	.725	18.42	34	112	67	220
(12 triads)																		



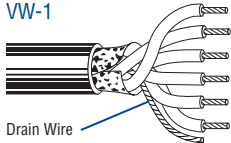
* Each triad shielded with 100% Beldfoil shield and drain wire, encased in a .020" white PVC jacket with color coded stripes.

TC = Tinned Copper
 * Capacitance between conductors.
 ** Nominal capacitance conductor to conductor and shield.

⚠ Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

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

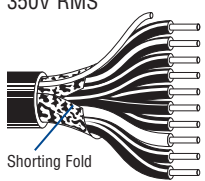
Description	Part No.	UL NEC/C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/Ft.	* pF/m	** pF/Ft.	** pF/m

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: CMP CEC: CMP FT6	4	Black, White, Red, Green	100 500 [†] 1000 [†]	30.5 152.4 304.8	2.9 9.0 15.0	1.3 4.1 6.8	.006 .15 .010	.15 .25	.121	3.07
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Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flamarrest® Jacket


300V RMS	82444	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	U-500 [†] U-1000 [†] 1000 [†]	U-152.4 U-304.8 304.8	9.0 16.0 15.0	4.1 7.3 6.8	.006 .15	.015 .38	.134	3.40
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22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs

Plenum • FEP Insulation • Red FEP Jacket


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

Plenum • FEP Insulation • Natural Flamarrest Jacket

300V RMS	82442	NEC: CMP CEC: CMP FT6	2	Black, Red	U-1000 [†] 1000 [†]	U-304.8 304.8	9.0 8.0	4.1 3.7	.006 .15	.015 .38	.113	2.87
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18 AWG Stranded (19x30) Tinned Copper Conductors • Conductors Cabled

Plenum • FEP Insulation • Red FEP Jacket


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

Plenum • FEP Insulation • Natural Flamarrest Jacket

300V RMS	82489	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	U-1000 [†] 1000 [†]	U-304.8 304.8	31.0 29.0	14.1 13.2	.007 .18	.014 .36	.170	4.32
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[†]Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

4 • Multi-Conductor Cables

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:			1000 [†]	304.8	36.0	16.4										
		CMP FT6																

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	.15	.014	.36	.135	3.43	20	66	36	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	.15	.014	.36	.144	3.66	20	66	36	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	.15	.014	.36	.165	4.19	20	66	36	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	.15	.014	.36	.188	4.78	20	66	36	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	.15	.014	.36	.207	5.26	20	66	36	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	.15	.014	.36	.227	5.77	20	66	36	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	.15	.014	.36	.141	3.58	23	75	40	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	.15	.014	.36	.148	3.76	23	75	40	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	.15	.014	.36	.159	4.04	23	75	40	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	.15	.014	.36	.183	4.65	23	75	40	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	.15	.014	.36	.209	5.31	23	75	40	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	.15	.015	.38	.234	5.94	23	75	40	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	.15	.015	.38	.269	6.83	23	75	40	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 .238	3.99 6.05	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 .238	4.52 6.05	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 .238	5.26 6.05	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 .265	6.05 6.73	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 .308	6.73 7.82	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 .238	4.45 6.05	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 .238	4.67 6.05	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 .238	5.05 6.05	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 .238	5.94 6.05	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 .308	7.44 7.82	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 .308	7.82 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																			
	300V RMS	83702	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	5.2 18.5 40.0	2.4 8.4 18.2	.007	.18	.014	.36	.196	4.98	35	115	63	207
		83703	NEC: CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	500† 1000†	152.4 304.8	23.0 50.0	10.5 22.7	.007	.18	.014	.36	.206	5.23	35	115	63	207
		83704	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	8.0 29.0 62.0	3.6 13.2 28.1	.007	.18	.014	.36	.223	5.66	35	115	63	207
		83706	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	9.7 44.5 87.0	4.4 20.2 39.5	.007	.18	.014	.36	.265	6.73	35	115	63	207
		83709	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	11.5 61.0 120.0	5.2 27.7 54.5	.007	.18	.014	.36	.307	7.80	35	115	63	207
		83712	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	14.8 78.0 153.0	6.8 35.4 69.5	.007	.18	.014	.36	.344	8.74	35	115	63	207
		83715	NEC: CMP CEC: CMP FT6	15	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	18.1 95.0 190.0	8.3 43.1 86.3	.007	.18	.014	.36	.407	10.34	35	115	63	207
		83719	NEC: CMP CEC: CMP FT6	19	See Chart 2 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	21.8 113.5 227.0	9.9 51.5 103.0	.007	.18	.014	.36	.403	10.24	35	115	63	207

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.

4 • Multi-Conductor Cables

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
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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
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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
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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
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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
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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
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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
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[†] 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 U-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
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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	.38	.031	.79	.208	5.28	22	72	40	131
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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	.38	.030	.76	.217	5.51	22	72	40	131
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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 U-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
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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	.38	.020	.51	.182	4.62	31	102	59	194
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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	.38	.020	.51	.193	4.90	27	87	48	157
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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	.51	.020	.51	.210	5.33	44	144	79	259
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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	.51	.020	.51	.223	5.66	34	112	61	201
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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.

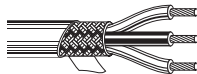
High-Temperature

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)

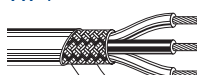
Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket

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

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)

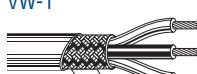
Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket

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

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

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

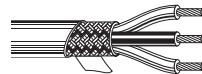
Overall Braid Shield — Control and Instrumentation Cables

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)

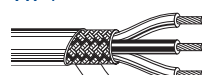
Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket

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)

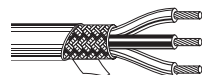
Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket

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-152.4	18.0	8.2	.013	.33	.039	.99	.234	5.94
					U-1000	U-304.8	35.0	15.9						


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-152.4	14.5	6.6	.017	.43	.037	.94	.228	5.79
					U-1000	U-304.8	28.0	12.7						

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-152.4	16.0	7.3	.017	.43	.037	.94	.231	5.87
					U-1000	U-304.8	31.0	14.1						

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


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-152.4	18.0	8.2	.018	.46	.037	.94	.250	6.35
					U-1000	U-304.8	35.0	15.9						

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-152.4	20.0	9.1	.018	.46	.037	.94	.253	6.43
					U-1000	U-304.8	39.0	17.7						

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

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:	2	Black, Red	U-500	U-152.4	27.0	12.3	.022	.56	.042	1.07	.303	7.70
		FPLR			1000	304.8	54.0	24.5						
		CEC:												
		FAS 105 FT4												

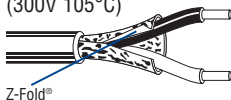
14 AWG Solid Bare Copper Conductors • Conductors Cabled • Beldfoil® Shield (100% Coverage)

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

12 AWG Solid Bare Copper Conductors • Conductors Cabled

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

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:	2	Black, Red	1000	304.8	85.0	38.6	.022	.56	.042	1.07	.343	8.71
		FPLR												
		CEC:												
		FAS 105 FT4												


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.

4 • Multi-Conductor Cables


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																		
UL Style 2464 & 1424 (300V 200°C)	83752	NEC:	2	See Chart 2 (Tech Info Section)	100	30.5	7.1	3.2	.016	.41	.015	.38	.267	6.78	30	98	52	171
		FPLP, CMP CEC: CMP FT6			500†	152.4	31.5	14.3	1000†	304.8	60.0	27.2						
	83753	NEC:	3	See Chart 2 (Tech Info Section)	500†	152.4	42.5	19.3	.016	.41	.015	.38	.284	7.21	30	98	52	171
		FPLP, CMP CEC: CMP FT6			1000†	304.8	82.0	37.2										
	83754	NEC:	4	See Chart 2 (Tech Info Section)	100	30.5	9.8	4.5	.016	.41	.015	.38	.311	7.90	30	98	52	171
		FPLP, CMP CEC: CMP FT6			500†	152.4	52.5	23.8	1000†	304.8	102.0	46.3						
	83756	NEC:	6	See Chart 2 (Tech Info Section)	100	30.5	14.1	6.4	.016	.41	.017	.43	.376	9.55	30	98	52	171
		FPLP, CMP CEC: CMP FT6			500†	152.4	74.5	34.0	1000†	304.8	150.0	68.1						

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

Plenum • FEP Insulation • Red FEP Jacket																		
UL Style 2464 & 1424 (300V 200°C)	83802	NEC:	2	See Chart 2 (Tech Info Section)	100	30.5	7.5	3.4	.016	.41	.015	.38	.303	7.70	32	105	55	180
		FPLP, CMP CEC: CMP FT6			500†	152.4	41.0	18.6	1000†	304.8	80.0	36.3						
	83803	NEC:	3	See Chart 2 (Tech Info Section)	100	30.5	10.6	4.8	.016	.41	.015	.38	.323	8.20	32	105	55	180
		FPLP, CMP CEC: CMP FT6			500†	152.4	56.5	25.7	1000†	304.8	111.0	50.4						
	83804	NEC:	4	See Chart 2 (Tech Info Section)	100	30.5	13.8	6.3	.016	.41	.017	.43	.359	9.12	32	105	55	180
		FPLP, CMP CEC: CMP FT6			500†	152.4	73.0	33.1	1000†	304.8	147.0	66.7						
	83806	NEC:	6	See Chart 2 (Tech Info Section)	100	30.5	19.7	9.0	.016	.41	.017	.43	.430	10.92	32	105	55	180
		FPLP, CMP CEC: CMP FT6			500†	152.4	213.0	96.7										

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.