

Introduction

Multi Applications Demand Multiple Choice

When the applications are many and the systems different, cable flexibility is vital. Choice means the ability to meet every requirement and every contingency, because every system has different requirements.

Belden's multi-conductor 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.

Key Applications

- Computers
- Communications
- Instrumentation
- Sound
- Control
- Audio
- Data transmission

Special Features

- Belden multi-conductor cables are offered in many variations including plenum and high-temperature versions. Variations include:
 - Gage sizes
 - Dimensions
 - Insulation materials
 - Shielding configurations
 - Jacketing materials
- Each cable is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.
- 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.
- Extended temperature and chemical resistant cable range: a broad range of cables suitable for application in the temperature range from -100°C up to +1550°C.

Availability

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, see our U.S. Master Catalog or contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

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.		4.11	4.9	4.6	4.10
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/m)		39.4	98.4	98.4	114.8

* All cables are UL-Listed.

**Capacitance may vary on some cables.

† Foam high density polyethylene.

Overall Beldfoil® Shield

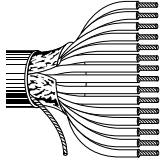
Computer Cables for EIA RS-232 Applications

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm		pF/ft.	pF/m	

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Conductors Cabled • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire

Semi-Rigid PVC Insulation • Chrome PVC Jacket

300V 80°C UL AWM Style 2464	NEC: CMG CEC: CMG FT4		0.61 mm 24 AWG (7x32) TC	0.044	1.11	Overall Beldfoil® + Drain Wire (24 AWG TC)	-									see chart 1 (Tech Info Section)
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9533	3 CDR	100	31	2.6	1.2				0.162	4.11		CDR/CDR	33	108
		U-500	U-152	9.5	4.3							CDR/SCR	65	213
		500	152	9.0	4.1									
		U-1000	U-305	18.1	8.2									
		1000	305	18.1	8.2									
9534	4 CDR	100	31	3.1	1.4				0.184	4.67		CDR/CDR	33	108
		U-500	U-152	11.0	5.0							CDR/SCR	65	213
		500	152	11.5	5.2									
		U-1000	U-305	20.9	9.5									
		1000	305	22.0	10.0									
9535	5 CDR	100	31	3.3	1.5				0.189	4.80		CDR/CDR	33	108
		U-500	U-152	11.9	5.4							CDR/SCR	65	213
		500	152	11.0	5.0									
		U-1000	U-305	22.9	10.4									
		1000	305	22.0	10.0									
9536	6 CDR	100	31	3.5	1.6				0.209	5.31		CDR/CDR	33	108
		U-500	U-152	14.6	6.6							CDR/SCR	65	213
		500	152	12.6	5.7									
		U-1000	U-305	27.1	12.3									
		1000	305	29.1	13.2									
9537	7 CDR	100	31	3.7	1.7				0.209	5.31		CDR/CDR	33	108
		U-500	U-152	15.0	6.8							CDR/SCR	65	213
		500	152	13.7	6.2									
		U-1000	U-305	29.1	13.2									
		1000	305	30.2	13.7									
9538	8 CDR	100	31	3.7	1.7				0.224	5.69		CDR/CDR	33	108
		U-500	U-152	17.0	7.7							CDR/SCR	65	213
		500	152	15.0	6.8									
		U-1000	U-305	32.2	14.6									
		1000	305	34.0	15.4									
9539	9 CDR	100	31	4.2	1.9				0.244	6.20		CDR/CDR	30	98
		U-500	U-152	20.1	9.1							CDR/SCR	55	180
		500	152	17.2	7.8									
		U-1000	U-305	37.3	16.9									
		1000	305	38.1	17.3									
9540	10 CDR	100	31	4.4	2.0				0.244	6.20		CDR/CDR	30	98
		U-500	U-152	19.6	8.9							CDR/SCR	55	180
		500	152	18.1	8.2									
		U-1000	U-305	37.9	17.2									
		1000	305	36.2	16.4									

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Beldfoil® Shield

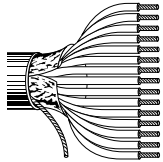
Computer Cables for EIA RS-232 Applications

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm		pF/ft.	pF/m	

24 AWG • Stranded (7x32) 0.6 mm TC • Conductors Cabled • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire (continued)

Semi-Rigid PVC Insulation • Chrome PVC Jacket

300V 80°C UL AWM Style 2464	NEC: CMG CEC: CMG FT4						0.61 mm 24 AWG (7x32) TC	0.044	1.11	Overall Beldfoil® + Drain Wire (24 AWG TC)			-			see chart 2R (Tech Info Section)
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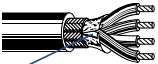


9541	15 CDR	100	31	6.0	2.7						0.284	7.21	CDR/CDR	30	98		
		U-500	U-152	27.6	12.5									CDR/SCR	55		180
		500	152	28.0	12.7												
		U-1000	U-305	54.0	24.5												
		1000	305	56.0	25.4												
9542	20 CDR	100	31	7.3	3.3						0.314	7.98	CDR/CDR	30	98		
		U-500	U-152	34.0	15.4									CDR/SCR	55		180
		500	152	35.5	16.1												
		1000	305	69.0	31.3												
9543	25 CDR	100	31	8.8	4.0						0.339	8.61	CDR/CDR	30	98		
		500	152	44.1	20.0									CDR/SCR	55		180
		1000	305	86.0	39.0												
9544	30 CDR	100	31	10.4	4.7						0.380	9.65	CDR/CDR	30	98		
		500	152	51.6	23.4									CDR/SCR	55		180
		1000	305	102.1	46.3												
9545	40 CDR	100	31	13.4	6.1						0.430	10.92	CDR/CDR	30	98		
		500	152	65.0	29.5									CDR/SCR	55		180
		1000	305	130.1	59.0												
9546	50 CDR	100	31	16.3	7.4						0.490	12.45	CDR/CDR	30	98		
		500	152	81.6	37.0									CDR/SCR	55		180
		1000	305	168.2	76.3												

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

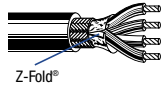
Overall Foil/Braid Shield

Computer Cables for EIA RS-232 Applications

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm		pF/ft.	pF/m	
24 AWG • Stranded Conductors (7x32) 0.6 mm Tinned Copper • Overall Beldfoil® Shield + 65% Tinned Copper Braid																
Semi-Rigid PVC Insulation • Chrome PVC Jacket																
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					0.61 mm 24 AWG (7x32) TC	0.044	1.12	Overall Beldfoil® + Overall 65% TC Braid			-			
																
	9608	3 CDR	100 500 1000	31 152 305	3.1 11.9 22.9	1.4 5.4 10.4					0.190	4.83	CDR/CDR CDR/SCR	35 65	115 213	see chart 1 (Tech Info Section)
	9609	4 CDR	100 500 1000	31 152 305	3.5 13.4 26.0	1.6 6.1 11.8					0.200	5.08	CDR/CDR CDR/SCR	35 65	115 213	see chart 1 (Tech Info Section)
	9610	5 CDR	100 500 1000	31 152 305	4.0 16.1 32.0	1.8 7.3 14.5					0.215	5.46	CDR/CDR CDR/SCR	35 65	115 213	see chart 1 (Tech Info Section)
	9611	6 CDR	100 500 1000	31 152 305	4.2 17.0 34.0	1.9 7.7 15.4					0.225	5.72	CDR/CDR CDR/SCR	30 55	98 180	see chart 1 (Tech Info Section)
	9612	7 CDR	100 500 1000	31 152 305	4.2 18.5 38.1	1.9 8.4 17.3					0.225	5.72	CDR/CDR CDR/SCR	30 55	98 180	see chart 1 (Tech Info Section)
	9613	8 CDR	100 500 1000	31 152 305	4.4 20.9 41.0	2.0 9.5 18.6					0.240	6.10	CDR/CDR CDR/SCR	30 55	88 180	see chart 1 (Tech Info Section)
	9614	9 CDR	100 500 1000	31 152 305	4.9 22.0 44.1	2.2 10.0 20.0					0.253	6.43	CDR/CDR CDR/SCR	30 55	98 180	see chart 1 (Tech Info Section)
	9615	10 CDR	100 500 1000	31 152 305	5.5 25.1 50.0	2.5 11.4 22.7					0.270	6.86	CDR/CDR CDR/SCR	30 55	98 180	see chart 1 (Tech Info Section)
	9616	15 CDR	100 500 1000	31 152 305	6.6 31.5 63.1	3.0 14.3 28.6					0.300	7.62	CDR/CDR CDR/SCR	30 55	98 180	see chart 2R (Tech Info Section)
	9617	25 CDR	100 500 1000	31 152 305	10.1 49.6 100.1	4.6 22.5 45.4					0.370	9.40	CDR/CDR CDR/SCR	30 55	98 180	see chart 2R (Tech Info Section)
	9618	37 CDR	100 500 1000	31 152 305	13.2 66.6 135.1	6.0 30.2 61.3					0.411	10.43	CDR/CDR CDR/SCR	30 55	98 180	see chart 2R (Tech Info Section)
	9619	50 CDR	100 500 1000	31 152 305	17.2 93.0 182.1	7.8 42.2 82.6					0.485	12.32	CDR/CDR CDR/SCR	30 55	98 180	see chart 2R (Tech Info Section)

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

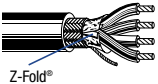
Overall Foil/Braid Shield Computer Cables for EIA RS-232 Applications

De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm		pF/ft.	pF/m	
22 AWG • Stranded Conductors (7x30) 0.8 mm Tinned Copper • Overall Beldfoil® Shield + 65% Tinned Copper Braid																
Semi-Rigid PVC Insulation • Chrome PVC Jacket																
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4		0.76 mm 22 AWG (7x30) TC		0.051 1.30		Overall Beldfoil® + Overall 65% TC Braid		-						
																
Z-Fold®																
9939	3 CDR		100 500 1000	31 152 305	3.5 12.1 24.0	1.6 5.5 10.9					0.202	5.13	CDR/CDR CDR/SCR	37 67	121 220	see chart 1 (Tech Info Section)
9940	4 CDR		100 500 1000	31 152 305	4.0 14.6 32.0	1.8 6.6 14.5					0.215	5.46	CDR/CDR CDR/SCR	37 67	121 220	see chart 1 (Tech Info Section)
9941	5 CDR		100 500 1000	31 152 305	4.0 16.1 38.1	1.8 7.3 17.3					0.230	5.84	CDR/CDR CDR/SCR	37 67	121 220	see chart 1 (Tech Info Section)
9942	6 CDR		100 500 1000	31 152 305	4.6 22.0 43.0	2.1 10.0 19.5					0.245	6.22	CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9943	7 CDR		100 500 1000	31 152 305	5.1 23.8 46.1	2.3 10.8 20.9					0.245	6.22	CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9944	8 CDR		100 500 1000	31 152 305	5.5 26.0 52.0	2.5 11.8 23.6					0.260	6.60	CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9945	9 CDR		100 500 1000	31 152 305	6.2 28.4 57.1	2.8 12.9 25.9					0.280	7.11	CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9946	10 CDR		100 500 1000	31 152 305	6.6 31.5 61.9	3.0 14.3 28.1					0.300	7.62	CDR/CDR CDR/SCR	35 63	115 207	see chart 1 (Tech Info Section)
9947	15 CDR		100 500 1000	31 152 305	8.8 42.5 83.1	4.0 19.3 37.7					0.340	8.64	CDR/CDR CDR/SCR	35 63	115 207	see chart 2R (Tech Info Section)
9948	25 CDR		100 500 1000	31 152 305	13.3 66.6 132.1	6.0 30.2 59.9					0.410	10.41	CDR/CDR CDR/SCR	35 63	115 207	see chart 2R (Tech Info Section)
9949	37 CDR		100 500 1000	31 152 305	16.1 87.5 180.1	7.3 39.7 81.7					0.460	11.68	CDR/CDR CDR/SCR	35 63	115 207	see chart 2R (Tech Info Section)
9950	50 CDR		100 500 1000	31 152 305	25.1 118.2 238.3	11.4 53.6 108.1					0.555	14.10	CDR/CDR CDR/SCR	35 63	115 207	see chart 2R (Tech Info Section)

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Foil/Braid Shield

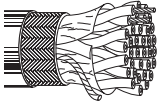
Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Vel. of Prop.	Nominal Capacitance		Color Code	
			ft.	m	lbs.	kg		inch	mm		inch	mm		pF/ft.	pF/m		
24 AWG • Stranded Conductors (7x32) 0.6 mm Tinned Copper • Overall Beldfoil® Shield + 65% Tinned Copper Braid • 24 AWG TC Drain Wire Datalene® Insulation • Chrome PVC Jacket																	
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.053	1.35	Overall Beldfoil® + Overall 65% TC Braid + Drain Wire (24 AWG TC)			78%				
																	
	9925	3 CDR	100 500 1000	31 152 305	3.5 12.1 24.0	1.6 5.5 10.9					0.215	5.46		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
	9927	4 CDR	100 500 1000	31 152 305	3.5 14.6 32.0	1.6 6.6 14.5					0.230	5.84		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
	9929	5 CDR	100 500 1000	31 152 305	4.0 16.1 35.9	1.8 7.3 16.3					0.246	6.25		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
	9931	6 CDR	100 500 1000 10000	31 152 305 3048	4.2 17.6 39.0 410.3	1.9 8.0 17.7 186.1					0.265	6.73		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
	9932	7 CDR	100 500 1000	31 152 305	4.4 18.5 41.0	2.0 8.4 18.6					0.265	6.73		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
	9633	8 CDR	100 500 1000 10000	31 152 305 3048	4.9 21.2 46.1 480.4	2.2 9.6 20.9 217.9					0.280	7.11		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
	9934	9 CDR	100 500 1000	31 152 305	5.3 22.0 48.1	2.4 10.0 21.8					0.300	7.62		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
	9935	10 CDR	100 500 1000	31 152 305	5.7 28.0 53.1	2.6 12.7 24.1					0.306	7.77		CDR/CDR CDR/SCR	12 22	39 72	see chart 1 (Tech Info Section)
	9636	15 CDR	100 500 1000	31 152 305	7.3 35.1 68.1	3.3 15.9 30.9					0.350	8.89		CDR/CDR CDR/SCR	12 22	39 72	see chart 2R (Tech Info Section)
	9937	25 CDR	100 500 1000	31 152 305	9.9 54.7 108.0	4.5 24.8 49.0					0.445	11.30		CDR/CDR CDR/SCR	12 22	39 72	see chart 2R (Tech Info Section)
	9938	37 CDR	100 500 1000	31 152 305	13.0 71.6 139.1	5.9 32.5 63.1					0.500	12.70		CDR/CDR CDR/SCR	12 22	39 72	see chart 2R (Tech Info Section)

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Foil/Braid Shield

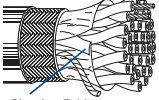
Low-Capacitance Computer Cables
for EIA RS-232 and EIA RS-422 Applications

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ()	Nom. Vel. of Prop.	Nominal Capacitance		Color Code	
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m		
28 AWG • Stranded (7x36) 0.4 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield + 90% TC Braid • 28 AWG TC Drain Wire Polypropylene Insulation • Chrome PVC Jacket																		
30V 60°C UL AWM Style 2960		NEC: CL2					0.38 mm 28 AWG (7x36) TC	0.033	0.84	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (28 AWG TC)				100	66%			see chart 3 (Tech Info Section)
																		
9804	2-Pair		100	31	4.0	1.8					0.214	5.44			CDR/CDR	16	51	
			500	152	14.6	6.6									CDR/SCR	28	90	
			1000	305	32.0	14.5												
9805	3-Pair		100	31	4.2	1.9					0.222	5.64			CDR/CDR	16	51	
			500	152	15.4	7.0									CDR/SCR	28	90	
			1000	305	35.1	15.9												
9806	4-Pair		100	31	4.4	2.0					0.237	6.02			CDR/CDR	16	51	
			500	152	17.4	7.9									CDR/SCR	28	90	
			1000	305	39.0	17.7												
9807	5-Pair		100	31	4.4	2.0					0.240	6.10			CDR/CDR	16	51	
			500	152	19.6	8.9									CDR/SCR	28	90	
			1000	305	39.0	17.7												
9808	7-Pair		100	31	4.9	2.2					0.256	6.50			CDR/CDR	16	51	
			500	152	20.5	9.3									CDR/SCR	28	90	
			1000	305	44.1	20.0												
9809	9-Pair		100	31	5.7	2.6					0.290	7.37			CDR/CDR	16	51	
			500	152	24.9	11.3									CDR/SCR	28	90	
			1000	305	53.1	24.1												
9812	12-Pair		100	31	6.6	3.0					0.319	8.10			CDR/CDR	16	51	
			500	152	31.1	14.1									CDR/SCR	28	90	
			1000	305	62.2	28.2												
9813	13-Pair		100	31	7.1	3.2					0.336	8.53			CDR/CDR	16	51	
			500	152	34.2	15.5									CDR/SCR	28	90	
			1000	305	66.1	30.0												
9819	18-Pair		100	31	8.4	3.8					0.365	9.27			CDR/CDR	16	51	
			500	152	41.0	18.6									CDR/SCR	28	90	
			1000	305	82.2	37.3												
9825	25-Pair		100	31	9.9	4.5					0.429	10.90			CDR/CDR	16	51	
			500	152	54.7	24.8									CDR/SCR	28	90	
			1000	305	108.2	49.1												
9814	31-Pair		100	31	11.9	5.4					0.462	11.73			CDR/CDR	16	51	
			500	152	64.2	29.1									CDR/SCR	28	90	
			1000	305	127.2	57.7												

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Foil/Braid Shield

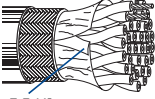
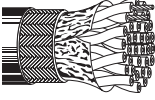
Low-Capacitance Computer Cables
for EIA RS-232 and EIA RS-485 Applications

De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ()	Nom. Vel. of Prop.	Nominal Capacitance		Color Code		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m			
28 AWG • Stranded (7x36) 0.4 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield + 65% TC Braid • 28 AWG TC Drain Wire																			
Datalene® Insulation • Chrome PVC Jacket																			
30V 80°C UL AWM Style 2919	NEC: CL2						0.38 mm 28 AWG (7x36) TC	0.044	1.12	Overall Beldfoil® + Overall 65% TC Braid + Drain Wire (28 AWG TC)			120	78%			see chart 5 (Tech Info Section)		
	Shorting Fold																		
8132	2-Pair		100	31	3.5	1.6						0.220	5.59			CDR/CDR CDR/SCR	11 20	36 66	
			500	152	14.6	6.6													
			1000	305	29.1	13.2													
8133	3-Pair		100	31	3.7	1.7						0.270	6.86			CDR/CDR CDR/SCR	11 20	36 66	
			500	152	15.0	6.8													
			1000	305	34.2	15.5													
8134	4-Pair		100	31	4.4	2.0						0.290	7.37			CDR/CDR CDR/SCR	11 20	36 66	
			500	152	18.1	8.2													
			1000	305	39.0	17.7													
8135	5-Pair		100	31	4.6	2.1						0.300	7.62			CDR/CDR CDR/SCR	11 20	36 66	
			500	152	21.1	9.5													
			1000	305	42.1	19.1													
8138	8-Pair		100	31	5.5	2.5						0.330	8.38			CDR/CDR CDR/SCR	11 20	36 66	
			500	152	27.1	12.3													
			1000	305	52.0	23.6													
8142	12.5-Pair (12 pairs + 1 single)		100	31	6.8	3.1						0.375	9.53			CDR/CDR CDR/SCR	11 20	36 66	
			500	152	33.1	15.0													
			1000	305	65.9	29.9													
8148	18-Pair		100	31	8.6	3.9						0.465	11.81			CDR/CDR CDR/SCR	11 20	36 66	
			500	152	47.6	21.6													
			1000	305	92.2	41.8													
8155	25-Pair		100	31	11.0	5.0						0.565	14.35			CDR/CDR CDR/SCR	11 20	36 66	
			500	152	64.2	29.1													
			1000	305	121.3	55.0													

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Foil/Braid Shield

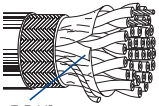
Low-Capacitance Computer Cables
for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ()	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	
24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield + 65% Tinned Copper Braid																	
Semi-Rigid PVC Insulation • Chrome PVC Jacket																	
300V 80°C UL AWM Style 2464 CSA AWM I A		NEC: CMG CEC: CMG FT4					0.61 mm 24 AWG (7x32) TC	0.044	1.12	Overall Beldfoil® + Overall 65% TC Braid			75	60%			see chart 5 (Tech Info Section)
																	
	8332	2-Pair	100 500 1000	31 152 305	4.2 16.5 37.0	1.9 7.5 16.8					0.250	6.35			CDR/CDR CDR/SCR	30 50	98 164
	8333	3-Pair	100 500 1000	31 152 305	4.9 20.5 44.3	2.2 9.3 20.1					0.265	6.73			CDR/CDR CDR/SCR	30 50	98 164
	8334	4-Pair	100 500 1000	31 152 305	5.3 22.5 49.2	2.4 10.2 22.3					0.288	7.32			CDR/CDR CDR/SCR	30 50	98 164
	8335	5-Pair	100 500 1000	31 152 305	6.0 29.5 57.1	2.7 13.4 25.9					0.295	7.49			CDR/CDR CDR/SCR	30 50	98 164
	8336	6-Pair	100 500 1000	31 152 305	6.6 31.5 62.2	3.0 14.3 28.2					0.310	7.87			CDR/CDR CDR/SCR	30 50	98 164
	8337	7-Pair	100 500 1000	31 152 305	6.8 32.8 65.0	3.1 14.9 29.5					0.321	8.15			CDR/CDR CDR/SCR	30 50	98 164
	8340	10-Pair	100 500 1000	31 152 305	9.0 43.4 90.2	4.1 19.7 40.9					0.385	9.78			CDR/CDR CDR/SCR	30 50	98 164
	8342	12.5-Pair (12 pairs + 1 single)	100 500 1000	31 152 305	11.0 55.1 109.1	5.0 25.0 49.5					0.405	10.29			CDR/CDR CDR/SCR	30 50	98 164
	8345	15-Pair	500 1000	152 305	61.7 123.2	28.0 55.9					0.445	11.30			CDR/CDR CDR/SCR	30 50	98 164
300V 80°C UL AWM Style 2464	8348	18-Pair	100 500 1000	31 152 305	14.1 78.9 152.8	6.4 35.8 69.3					0.480	12.19			CDR/CDR CDR/SCR	30 50	98 164
	8355	25-Pair	500 1000	152 305	96.8 195.3	43.9 88.6					0.550	13.97			CDR/CDR CDR/SCR	30 50	98 164

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Foil/Braid Shield

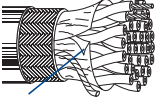
Low-Capacitance Computer Cables
for EIA RS-232 and EIA RS-422 Applications

De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ()	Nom. Vel. of Prop.	Nominal Capacitance		Color Code	
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m		
24 AWG • Stranded (7x32) 0.6 mm TC • Twisted Pair • Overall Beldfoil® Shield + 65% Tinned Copper Braid • 24 AWG TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.054	1.37	Overall Beldfoil® + Overall 65% TC Braid + Drain Wire (24 AWG TC)			100	66%			see chart 5 (Tech Info Section)	
																		
Z-Fold®																		
9829	2-Pair		100	31	4.6	2.1						0.291	7.39			CDR/CDR	16	51
			500	152	22.0	10.0										CDR/SCR	28	90
			1000	305	43.0	19.5												
9830	3-Pair		500	152	26.5	12.0						0.305	7.74			CDR/CDR	16	51
			1000	305	53.1	24.1										CDR/SCR	28	90
9831	4-Pair		100	31	6.2	2.8						0.330	8.38			CDR/CDR	16	51
			500	152	30.0	13.6										CDR/SCR	28	90
			1000	305	58.2	26.4												
9832	5-Pair		100	31	6.6	3.0						0.338	8.59			CDR/CDR	16	51
			500	152	32.6	14.8										CDR/SCR	28	90
			1000	305	65.0	29.5												

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Foil/Braid Shield

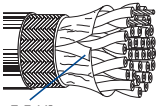
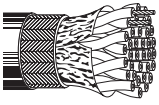
Low-Capacitance Computer Cables
for EIA RS-232 and EIA RS-422 Applications

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ()	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	
24 AWG • Stranded (7x32) 0.6 mm TC • Twisted Pair • Overall Beldfoil® Shield + 65% Tinned Copper Braid • 24 AWG TC Drain Wire Datalene® Insulation • Chrome PVC Jacket																	
30V 80°C UL AWM Style 2919		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.049	1.24	Overall Beldfoil® + Overall 65% TC Braid + Drain Wire (24 AWG TC)			100	78%			see chart 5 (Tech Info Section)
																	Shorting Fold
8102	2-Pair		100 500 1000 10000	31 152 305 3048	4.2 17.0 38.1 380.7	1.9 7.7 17.3 172.7					0.270	6.86			CDR/CDR CDR/SCR	13 22	41 72
8103	3-Pair		100 500 1000 10000	31 152 305 3048	4.6 19.6 42.1 431.0	2.1 8.9 19.1 195.5					0.283	7.19			CDR/CDR CDR/SCR	13 22	41 72
8104	4-Pair		100 500 1000 10000	31 152 305 3048	5.1 20.9 46.1 491.0	2.3 9.5 20.9 222.7					0.302	7.67			CDR/CDR CDR/SCR	13 22	41 72
8105	5-Pair		100 500 1000	31 152 305	5.7 28.0 53.1	2.6 12.7 24.1					0.316	8.03			CDR/CDR CDR/SCR	13 22	41 72
8106	6-Pair		100 500 1000	31 152 305	6.4 30.6 58.2	2.9 13.9 26.4					0.341	8.66			CDR/CDR CDR/SCR	13 22	41 72
8107	7-Pair		100 500 1000	31 152 305	6.8 33.1 63.1	3.1 15.0 28.6					0.341	8.66			CDR/CDR CDR/SCR	13 22	41 72
8108	8-Pair		100 500 1000	31 152 305	7.7 37.7 72.3	3.5 17.1 32.8					0.370	9.40			CDR/CDR CDR/SCR	13 22	41 72
8110	10-Pair		100 500 1000	31 152 305	8.2 45.6 90.2	3.7 20.7 40.9					0.427	10.85			CDR/CDR CDR/SCR	13 22	41 72
8112	12.5-Pair (12 pairs + 1 single)		100 500 1000	31 152 305	9.3 51.4 101.2	4.2 23.3 45.9					0.440	11.18			CDR/CDR CDR/SCR	13 22	41 72
8115	15-Pair		500 1000	152 305	63.7 116.2	28.9 52.7					0.495	12.57			CDR/CDR CDR/SCR	13 22	41 72
8118	18-Pair		100 500 1000	31 152 305	13.2 70.5 144.4	6.0 32.0 65.5					0.537	13.64			CDR/CDR CDR/SCR	13 22	41 72
8125	25-Pair		100 500 1000	31 152 305	20.7 98.1 191.4	9.4 44.5 86.8					0.632	16.05			CDR/CDR CDR/SCR	13 22	41 72

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Foil/Braid Shield

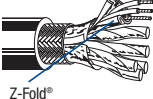
Low-Capacitance Computer Cables
for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ()	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield + 65% Tinned Copper Braid																	
Semi-Rigid PVC Insulation • Chrome PVC Jacket																	
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					0.76 mm 22 AWG (7x30) TC	0.051	1.30	Overall Beldfoil® + Overall 65% TC Braid			70	60%			see chart 3 (Tech Info Section)
																	
	8302	2-Pair	100 500 1000	31 152 305	4.4 19.0 41.0	2.0 8.6 18.6						0.260 6.60			CDR/CDR CDR/SCR	40 72	131 236
	8303	3-Pair	100 500 1000	31 152 305	5.3 25.6 48.1	2.4 11.6 21.8						0.270 6.86			CDR/CDR CDR/SCR	35 63	115 207
	8304	4-Pair	100 500 1000	31 152 305	6.6 32.4 65.0	3.0 14.7 29.5						0.320 8.13			CDR/CDR CDR/SCR	35 63	115 207
	8305	5-Pair	100 500 1000	31 152 305	7.3 35.1 67.0	3.3 15.9 30.4						0.322 8.18			CDR/CDR CDR/SCR	35 63	115 207
	8306	6-Pair	100 500 1000	31 152 305	7.9 39.7 78.9	3.6 18.0 35.8						0.348 8.84			CDR/CDR CDR/SCR	35 63	115 207
	8307	7-Pair	100 500 1000	31 152 305	8.6 41.9 85.1	3.9 19.0 38.6						0.348 8.84			CDR/CDR CDR/SCR	35 63	115 207
	8308	8-Pair	100 500 1000	31 152 305	10.4 50.0 101.4	4.7 22.7 46.0						0.384 9.75			CDR/CDR CDR/SCR	35 63	115 207
300V 80°C UL AWM Style 2464	8310	10-Pair	100 500 1000	31 152 305	11.0 60.4 121.0	5.0 27.4 54.9						0.440 11.18			CDR/CDR CDR/SCR	35 63	115 207
																	
	8312	12.5-Pair (12 pairs + 1 single)	100 500 1000	31 152 305	13.0 72.3 140.7	5.9 32.8 63.8						0.455 11.56			CDR/CDR CDR/SCR	35 63	115 207
	8315	15-Pair	100 500 1000	31 152 305	15.7 86.0 167.8	7.1 39.0 76.1						0.502 12.75			CDR/CDR CDR/SCR	35 63	115 207
	8318	18-Pair	100 500 1000	31 152 305	17.6 97.4 196.4	8.0 44.2 89.1						0.535 13.59			CDR/CDR CDR/SCR	35 63	115 207
	8325	25-Pair	100 500 1000	31 152 305	23.1 126.5 247.1	10.5 57.4 112.1						0.620 15.75			CDR/CDR CDR/SCR	35 63	115 207

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Individually Shielded Pairs with Overall Foil/Braid Shield

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

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ()	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	
24 AWG • Stranded (7x32) 0.6 mm TC • Twisted Pair • Each Pair Beldfoil® Shielded • Overall Beldfoil® Shield + 65% TC Braid • 24 AWG TC DW																	
Datalene® Insulation • Chrome PVC Jacket																	
(60°C) VW-1 UL AWM Style 2493		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.061	1.55	Individual Beldfoil® + Overall Beldfoil® + Overall 65% TC Braid + Drain Wire (24 AWG TC)			100	78%			see chart 3 (Tech Info Section)
																	
8162	2-Pair		100 500 1000	31 152 305	6.2 30.0 57.1	2.8 13.6 25.9					0.343	8.71			CDR/CDR CDR/SCR	13 22	41 72
8163	3-Pair		100 500 1000	31 152 305	7.1 34.2 66.1	3.2 15.5 30.0					0.359	9.12			CDR/CDR CDR/SCR	13 22	41 72
8164	4-Pair		100 500 1000	31 152 305	8.2 39.7 79.1	3.7 18.0 35.9					0.388	9.86			CDR/CDR CDR/SCR	13 22	41 72
8165	5-Pair		100 500 1000	31 152 305	9.0 45.2 89.3	4.1 20.5 40.5					0.413	10.49			CDR/CDR CDR/SCR	13 22	41 72
8166	6-Pair		100 500 1000	31 152 305	9.0 50.0 99.2	4.1 22.7 45.0					0.446	11.33			CDR/CDR CDR/SCR	13 22	41 72
8167	7-Pair		500 1000	152 305	52.7 103.0	23.9 46.7					0.446	11.33			CDR/CDR CDR/SCR	13 22	41 72
8168	8-Pair		100 500 1000	31 152 305	10.8 61.7 115.3	4.9 28.0 52.3					0.479	12.17			CDR/CDR CDR/SCR	13 22	41 72
8170	10-Pair		100 500 1000	31 152 305	18.1 83.1 164.2	8.2 37.7 74.5					0.584	14.83			CDR/CDR CDR/SCR	13 22	41 72
8175	15-Pair		100 500 1000	31 152 305	22.7 107.8 210.5	10.3 48.9 95.5					0.665	16.89			CDR/CDR CDR/SCR	13 22	41 72
8178	18-Pair		100 500 1000	31 152 305	24.7 117.3 238.5	11.2 53.2 108.2					0.686	17.42			CDR/CDR CDR/SCR	13 22	41 72
8185	25-Pair		100 500 1000	31 152 305	32.4 160.9 356.7	14.7 73.0 161.8					0.822	20.88			CDR/CDR CDR/SCR	13 22	41 72

TC = Tinned Copper • DW = Drain Wire • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Braid Shield

Computer Cables for EIA RS-232

De- scription	Part No.	No. of Pair	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm ²		inch	mm	

80°C • 24 - 18 AWG • Stranded Bare Copper Wire • Twisted Pair • >80% Tinned Copper Braid**PVC Insulation** (Color Code: see chart 12, Tech Info Section) • **Grey Flame Retardant PVC Jacket**

750V

IEC 332

Overall
>80% TC Braid

- Survey and data transmission
- Check and drive systems
- Measure and monitor systems
- Interconnection of computer networks and outskirts interface



LiYC Y-TP

HMC0630	2	328	100	101.4	46.0	(8x0.193) BC	24	0.25	0.220	5.60
HMC0631	3	328	100	143.3	65.0	(8x0.193) BC	24	0.25	0.258	6.50
HMC0632	4	328	100	169.8	77.0	(8x0.193) BC	24	0.25	0.280	7.10
HMC0633	5	328	100	198.4	90.0	(8x0.193) BC	24	0.25	0.303	7.70
HMC0634	6	328	100	227.1	103.0	(8x0.193) BC	24	0.25	0.323	8.20
HMC0635	8	328	100	284.4	129.0	(8x0.193) BC	24	0.25	0.366	9.30
HMC0636	10	328	100	330.7	150.0	(8x0.193) BC	24	0.25	0.394	10.00
HMC0637	12	328	100	354.9	161.0	(8x0.193) BC	24	0.25	0.417	10.60
HMC0638	2	328	100	154.3	70.0	(16x0.193) BC	20	0.50	0.276	7.00
HMC0639	3	328	100	207.2	94.0	(16x0.193) BC	20	0.50	0.327	8.30
HMC0640	3	328	100	224.9	102.0	(22x0.193) BC	18	0.75	0.335	8.50

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