

Introduction

Selection Guide: Shielded Multi-Pair Computer Cables RS-232, RS-422, and RS-485 Applications*

Specifications		Cable Series**												
		9804	8132	9829	8332	9501	8102	9729	8162	9680	8302	8777	9873	9773
Conductor Size: (AWG)	28	✓	✓											
	24			✓	✓	✓	✓	✓	✓	✓				
	22										✓	✓		
	20												✓	
	18													✓
Page No.		5.13	5.14	5.16	5.15	5.7	5.17	5.20	5.25	5.9	5.18	5.22	5.23	5.23
Insulation:	S-R PVC				✓	✓					✓			
	Polyethylene			✓						✓			✓	✓
	Polypropylene	✓										✓		
	Datalene®†		✓				✓	✓	✓					
Shield:	Overall Foil					✓				✓				
	Individual Foil							✓	✓			✓	✓	✓
	Overall Foil/Braid	✓	✓	✓	✓		✓		✓		✓			
	Braid Coverage	90%	65%	65%	65%		65%		65%		65%			
Drain Wire:	(see key below)	●	●	●	×	●	●	▲	▲	●	×	▲	▲	▲
No. of Pairs Available:	1					✓								
	2	✓	✓	✓	✓	✓	✓	✓	✓		✓			
	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	5	✓	✓	✓	✓	✓	✓		✓		✓			
	6			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	7	✓		✓	✓	✓	✓		✓		✓			
	8		✓			✓	✓		✓		✓			
	9	✓		✓		✓		✓		✓		✓	✓	✓
	10			✓	✓	✓	✓		✓		✓			
	11							✓				✓	✓	
	12	✓		✓				✓				✓	✓	✓
	12.5		✓		✓		✓			✓	✓			
	13	✓												
	15				✓	✓	✓	✓	✓		✓	✓	✓	✓
	17							✓				✓		
	18	✓	✓	✓	✓		✓		✓		✓			
	19					✓		✓				✓		
	25	✓	✓	✓	✓	✓	✓		✓		✓			
	27							✓				✓		
31	✓													
37											✓			
50					✓									
Capacitance†† (pF/m)		50.8	36.1	50.8	98.4	98.4	41.0	41.0	41.0	50.8	114.8	98.4	98.4	98.4

S-R = Semi-Rigid

* Refer to specifications for recommendations.

** All cables are UL-listed.

† Foam high density polyethylene.

†† Capacitance may vary on some cables.

Drain Wire Key:

● = Drain wire overall.

▲ = Drain wire each pair.

× = No drain wire.

Overall Beldfoil® Shield

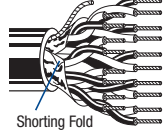
High-Temperature Control, Instrumentation Cables and Computer Cables
for EIA RS-232 Applications

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. 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 • 24 AWG Tinned Copper Drain Wire

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® + Drain Wire (24 AWG TC)	75	60%	see chart 3 (Tech Info Section)
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9501	1-Pair	100	31	2.2	1.0	0.156	3.96	CDR/CDR CDR/SCR	40	131
		U-500	U-152	7.5	3.4					
		500	152	7.1	3.2					
		U-1000	U-305	14.1	6.4					
		1000	305	14.1	6.4					
9502†	2-Pair	100	31	3.7	1.7	0.222	5.64	CDR/CDR CDR/SCR	30	98
		U-500	U-152	15.0	6.8					
		500	152	14.6	6.6					
		U-1000	U-305	28.0	12.7					
		1000	305	30.0	13.6					
10000	3048	290.6	131.8	For Plenum version of 9502, see 82502.						
9503	3-Pair	100	31	3.3	1.5	0.232	5.89	CDR/CDR CDR/SCR	30	98
		U-500	U-152	15.0	6.8					
		500	152	14.6	6.6					
		U-1000	U-305	28.0	12.7					
		1000	305	30.0	13.6					
9504	4-Pair	100	31	4.0	1.8	0.265	6.73	CDR/CDR CDR/SCR	30	98
		U-500	U-152	18.1	8.2					
		500	152	16.5	7.5					
		U-1000	U-305	35.1	15.9					
		1000	305	35.9	16.3					
9505	5-Pair	100	31	4.6	2.1	0.289	7.34	CDR/CDR CDR/SCR	30	98
		U-500	U-152	21.6	9.8					
		500	152	22.9	10.4					
		U-1000	U-305	41.0	18.6					
		1000	305	43.0	19.5					
9506	6-Pair	100	31	5.1	2.3	0.289	7.34	CDR/CDR CDR/SCR	30	98
		U-500	U-152	22.9	10.4					
		500	152	24.9	11.3					
		U-1000	U-305	45.0	20.4					
		1000	305	47.2	21.4					
9507	7-Pair	100	31	5.5	2.5	0.294	7.47	CDR/CDR CDR/SCR	30	98
		U-500	U-152	24.9	11.3					
		500	152	27.1	12.3					
		U-1000	U-305	49.2	22.3					
		1000	305	50.9	23.1					
9508	8-Pair	100	31	6.4	2.9	0.324	8.23	CDR/CDR CDR/SCR	30	98
		500	152	30.4	13.8					
		1000	305	60.0	27.2					
9509	9-Pair	100	31	6.8	3.1	0.334	8.48	CDR/CDR CDR/SCR	30	98
		500	152	33.5	15.2					
		1000	305	67.0	30.4					
9510	10-Pair	100	31	7.5	3.4	0.368	9.34	CDR/CDR CDR/SCR	30	98
		500	152	36.6	16.6					
		1000	305	74.1	33.6					
9515	15-Pair	100	31	10.4	4.7	0.417	10.60	CDR/CDR CDR/SCR	30	98
		500	152	52.0	23.6					
		1000	305	102.3	46.4					
9519	19-Pair	100	31	12.8	5.8	0.449	11.40	CDR/CDR CDR/SCR	30	98
		500	152	61.7	28.0					
		1000	305	122.4	55.5					

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration certification. Request quotations of RG/U cables not listed.



For more information, contact Belden Technical Support +31-77-3875-414 • www.belden-emea.com

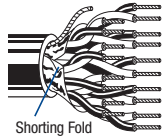
Overall Beldfoil® Shield

High-Temperature Control, Instrumentation Cables and 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. 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 • 24 AWG Tinned Copper Drain Wire (continued)

Semi-Rigid PVC Insulation • Chrome PVC Jacket																	
300V 80°C UL AWM Style 2464 CSA AWM 1 A	NEC: CMG CEC: CMG FT4						0.61 mm 24 AWG (7x32) TC	0.044	1.12	Overall Beldfoil® + Drain Wire (24 AWG TC)			75	60%			see chart 3 (Tech Info Section)



9525	25-Pair	100	31	16.1	7.3	0.504	12.80	CDR/CDR	30	98	
		500	152	79.6	36.1				CDR/SCR	50	164
		1000	305	155.0	70.3						
9550	50-Pair	100	31	32.0	14.5	0.709	18.00	CDR/CDR	30	98	
		† 500	152	153.9	69.8				CDR/SCR	50	164
		† 1000	305	311.7	141.4						

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

Plenum • FEP Insulation • Natural Flamarrst® Jacket																	
300V RMS	NEC: CMP CEC: CMP FT6						0.61 mm 24 AWG (7x32) TC	0.036	0.91	Overall Beldfoil® + Drain Wire (24 AWG TC)							see chart 3 (Tech Info Section)



82641	1-Pair	†† U-1000	U-305	9.0	4.1	0.106	2.69	CDR/CDR	31	102	
		†† 1000	305	7.9	3.6				CDR/SCR	59	194
82502	2-Pair	†† U-500	U-152	7.9	3.6	0.162	4.11	CDR/CDR	25	82	
		†† U-1000	U-305	16.1	7.3				CDR/SCR	45	148
		†† 1000	305	14.1	6.4						
82503	3-Pair	†† U-1000	U-305	19.0	8.6	0.169	4.29	CDR/CDR	25	82	
		†† 1000	305	18.1	8.2				CDR/SCR	45	148
82504	4-Pair	†† U-1000	U-305	24.0	10.9	0.193	4.90	CDR/CDR	25	82	
		†† 1000	305	26.0	11.8				CDR/SCR	45	148
82505	5-Pair	†† U-1000	U-305	29.1	13.2	0.196	4.98	CDR/CDR	25	82	
		†† 1000	305	30.9	14.0				CDR/SCR	45	148
82506	6-Pair	†† U-500	U-152	17.6	8.0	0.209	5.31	CDR/CDR	25	82	
		†† U-1000	U-305	34.2	15.5				CDR/SCR	45	148
		†† 1000	305	35.1	15.9						
82509	9-Pair	†† 1000	305	49.2	22.3	0.246	6.25	CDR/CDR	23	75	
								CDR/SCR	42	138	

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

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

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

Overall Beldfoil® Shield

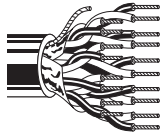
Low-Capacitance Computer Cables
for EIA RS-232 and EIA RS-422 Applications

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 Tinned Copper • Twisted Pair • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

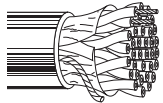
30V 80°C UL AWM Style 2919	NEC: CM CEC: CM						0.61 mm 24 AWG (7x32) TC	0.054	1.37	Overall Beldfoil® + Drain Wire (24 AWG TC)			100	66%			see chart 5 (Tech Info Section)
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9680	3-Pair	500	152	17.0	7.7	0.282	7.16	CDR/CDR	15	51
		1000	305	38.1	17.3					
9681	4-Pair	500	152	24.0	10.9	0.307	7.80	CDR/CDR	15	51
		1000	305	45.2	20.5					
9682	6-Pair	500	152	29.5	13.4	0.342	8.69	CDR/CDR	15	51
		1000	305	56.2	25.5					
9683	9-Pair	500	152	37.9	17.2	0.398	10.10	CDR/CDR	15	51
		1000	305	79.1	35.9					
9684	12.5-Pair (12 pairs + 1 single)	500	152	49.8	22.6	0.445	11.30	CDR/CDR	15	51
		1000	305	97.2	44.1					

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® + Drain Wire (24 AWG TC)			100	78%			see chart 5 (Tech Info Section)
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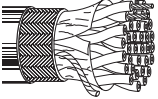


1419A	2-Pair	500	152	13.4	6.1	0.248	6.30	CDR/CDR	13	43		
		1000	305	30.0	13.6						22	72
		10000	3048	310.6	140.9							
1420A	3-Pair	500	152	15.0	6.8	0.261	6.63	CDR/CDR	13	43		
		1000	305	34.2	15.5						22	72
		10000	3048	340.6	154.5							
1421A	4-Pair	500	152	16.5	7.5	0.280	7.11	CDR/CDR	13	43		
		1000	305	37.0	16.8						22	72
1422A	5-Pair	500	152	23.1	10.5	0.294	7.47	CDR/CDR	13	43		
		1000	305	43.0	19.5						22	72
1423A	6-Pair	500	152	25.1	11.4	0.319	8.10	CDR/CDR	13	43		
		1000	305	48.1	21.8						22	72
		10000	3048	501.1	227.3							
1424A	12.5-Pair (12 pairs + 1 single)	500	152	43.0	19.5	0.418	10.62	CDR/CDR	13	43		
		1000	305	85.1	36.6						22	72
1425A	15-Pair	500	152	53.1	24.1	0.473	12.01	CDR/CDR	13	43		
		1000	305	99.2	45.0						22	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

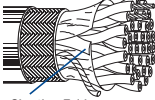
Low-Capacitance Computer Cables
for EIA RS-232 and EIA RS-422 Applications

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		100 500 1000	31 152 305	4.0 14.6 32.0	1.8 6.6 14.5					0.214	5.44			CDR/CDR CDR/SCR	16 28	51 90
9805	3-Pair		100 500 1000	31 152 305	4.2 15.4 35.1	1.9 7.0 15.9					0.222	5.64			CDR/CDR CDR/SCR	16 28	51 90
9806	4-Pair		100 500 1000	31 152 305	4.4 17.4 39.0	2.0 7.9 17.7					0.237	6.02			CDR/CDR CDR/SCR	16 28	51 90
9807	5-Pair		100 500 1000	31 152 305	4.4 19.6 39.0	2.0 8.9 17.7					0.240	6.10			CDR/CDR CDR/SCR	16 28	51 90
9808	7-Pair		100 500 1000	31 152 305	4.9 20.5 44.1	2.2 9.3 20.0					0.256	6.50			CDR/CDR CDR/SCR	16 28	51 90
9809	9-Pair		100 500 1000	31 152 305	5.7 24.9 53.1	2.6 11.3 24.1					0.290	7.37			CDR/CDR CDR/SCR	16 28	51 90
9812	12-Pair		100 500 1000	31 152 305	6.6 31.1 62.2	3.0 14.1 28.2					0.319	8.10			CDR/CDR CDR/SCR	16 28	51 90
9813	13-Pair		100 500 1000	31 152 305	7.1 34.2 66.1	3.2 15.5 30.0					0.336	8.53			CDR/CDR CDR/SCR	16 28	51 90
9819	18-Pair		100 500 1000	31 152 305	8.4 41.0 82.2	3.8 18.6 37.3					0.365	9.27			CDR/CDR CDR/SCR	16 28	51 90
9825	25-Pair		100 500 1000	31 152 305	9.9 54.7 108.2	4.5 24.8 49.1					0.429	10.90			CDR/CDR CDR/SCR	16 28	51 90
9814	31-Pair		100 500 1000	31 152 305	11.9 64.2 127.2	5.4 29.1 57.7					0.462	11.73			CDR/CDR CDR/SCR	16 28	51 90

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

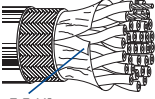
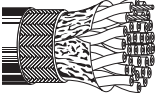
Low-Capacitance Computer Cables
for EIA RS-232 and EIA RS-485 Applications

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

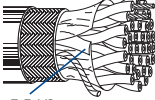
Low-Capacitance Computer Cables
for EIA RS-232 Applications

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

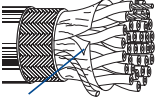
Low-Capacitance Computer Cables
for EIA RS-232 and EIA RS-422 Applications

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

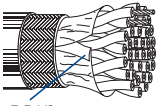
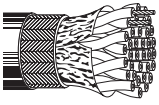
Low-Capacitance Computer Cables
for EIA RS-232 and EIA RS-422 Applications

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

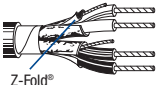
Low-Capacitance Computer Cables
for EIA RS-232 Applications

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)		
 Z-Fold®	8302	2-Pair	100	31	4.4	2.0						0.260	6.60			CDR/CDR	40	131	
			500	152	19.0	8.6											CDR/SCR	72	236
			1000	305	41.0	18.6													
	8303	3-Pair	100	31	5.3	2.4						0.270	6.86			CDR/CDR	35	115	
			500	152	25.6	11.6										CDR/SCR	63	207	
			1000	305	48.1	21.8													
	8304	4-Pair	100	31	6.6	3.0						0.320	8.13			CDR/CDR	35	115	
			500	152	32.4	14.7										CDR/SCR	63	207	
			1000	305	65.0	29.5													
	8305	5-Pair	100	31	7.3	3.3						0.322	8.18			CDR/CDR	35	115	
			500	152	35.1	15.9										CDR/SCR	63	207	
			1000	305	67.0	30.4													
	8306	6-Pair	100	31	7.9	3.6						0.348	8.84			CDR/CDR	35	115	
			500	152	39.7	18.0										CDR/SCR	63	207	
			1000	305	78.9	35.8													
	8307	7-Pair	100	31	8.6	3.9						0.348	8.84			CDR/CDR	35	115	
			500	152	41.9	19.0										CDR/SCR	63	207	
			1000	305	85.1	38.6													
	8308	8-Pair	100	31	10.4	4.7						0.384	9.75			CDR/CDR	35	115	
			500	152	50.0	22.7										CDR/SCR	63	207	
			1000	305	101.4	46.0													
300V 80°C UL AWM Style 2464	8310	10-Pair	100	31	11.0	5.0						0.440	11.18			CDR/CDR	35	115	
			500	152	60.4	27.4										CDR/SCR	63	207	
			1000	305	121.0	54.9													
	8312	12.5-Pair (12 pairs + 1 single)	100	31	13.0	5.9						0.455	11.56			CDR/CDR	35	115	
			500	152	72.3	32.8										CDR/SCR	63	207	
			1000	305	140.7	63.8													
	8315	15-Pair	100	31	15.7	7.1						0.502	12.75			CDR/CDR	35	115	
			500	152	86.0	39.0										CDR/SCR	63	207	
			1000	305	167.8	76.1													
	8318	18-Pair	100	31	17.6	8.0						0.535	13.59			CDR/CDR	35	115	
			500	152	97.4	44.2										CDR/SCR	63	207	
			1000	305	196.4	89.1													
	8325	25-Pair	100	31	23.1	10.5						0.620	15.75			CDR/CDR	35	115	
			500	152	126.5	57.4										CDR/SCR	63	207	
			1000	305	247.1	112.1													

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

Individually Shielded

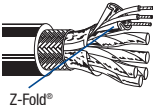
Low-Capacitance 100 Ohm Computer Cables
for EIA RS-422 and Digital Audio Applications

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 Individually Beldfoil® Shielded • 24 AWG Tinned Copper Drain Wire																	
Datalene® Insulation • Chrome PVC Jacket																	
300V 60°C UL AWM Style 2493		NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)			100	76%			see chart 3 (Tech Info Section)
																	
	9729	2-Pair	100 500 1000 † 10000	31 152 305 3048	4.4 20.5 39.0 392.0	2.0 9.3 17.7 177.8					0.266	6.76			CDR/CDR CDR/SCR	13 23	41 76
For Plenum version of 9729, see 89729 or 82729.																	
	9730	3-Pair	100 500 1000 † 10000	31 152 305 3048	5.1 24.5 46.1 521.2	2.3 11.1 20.9 236.4					0.334	8.48			CDR/CDR CDR/SCR	13 23	41 76
For Plenum version of 9730, see 89730.																	
	9728	4-Pair	100 500 1000	31 152 305	6.0 29.1 50.9	2.7 13.2 23.1					0.363	9.22			CDR/CDR CDR/SCR	13 23	41 76
For Plenum version of 9728, see 89728.																	
	9731	6-Pair	100 500 1000	31 152 305	7.5 42.1 83.1	3.4 19.1 37.7					0.421	10.69			CDR/CDR CDR/SCR	13 23	41 76
For Plenum version of 9731, see 89731.																	
	9732	9-Pair	100 500 1000	31 152 305	9.9 57.3 106.0	4.5 26.0 48.1					0.488	12.40			CDR/CDR CDR/SCR	13 23	41 76
For Plenum version of 9732, see 89732.																	
	9733	11-Pair	500	152	75.2	34.1					0.575	14.61			CDR/CDR CDR/SCR	13 23	41 76
	9734	12-Pair	500 1000	152 305	79.6 154.3	36.1 70.0					0.575	14.61			CDR/CDR CDR/SCR	13 23	41 76
	9735	15-Pair	500 1000	152 305	95.2 185.4	43.2 84.1					0.639	16.23			CDR/CDR CDR/SCR	13 23	41 76
	9736	17-Pair	500 1000	152 305	103.6 210.5	47.0 95.5					0.671	17.04			CDR/CDR CDR/SCR	13 23	41 76
	9737	19-Pair	1000	305	231.5	105.0					0.671	17.04			CDR/CDR CDR/SCR	13 23	41 76
	9738	27-Pair	1000	305	334.7	151.8					0.797	20.24			CDR/CDR CDR/SCR	13 23	41 76

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Spools are one piece, but length may vary ±10% from length shown.

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