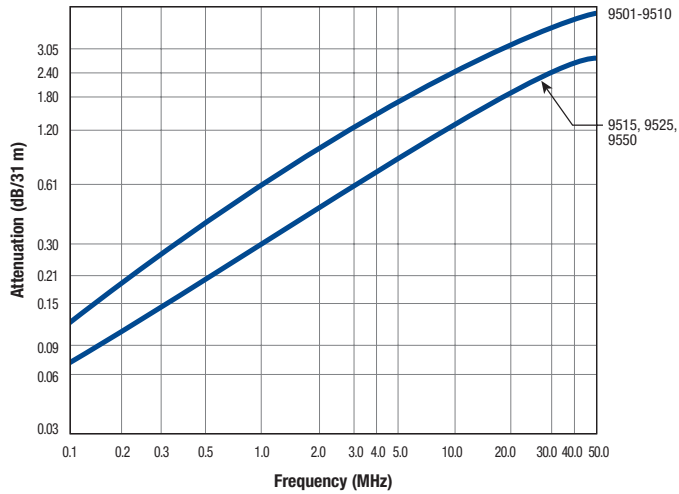


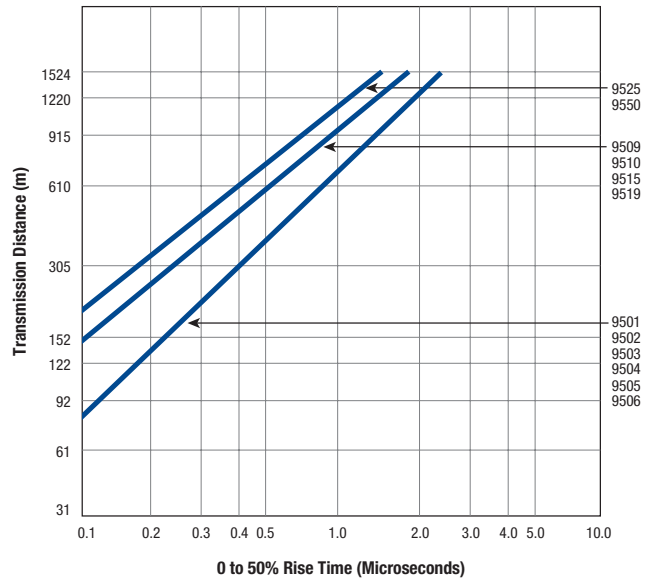
Overall Beldfoil® Shield

Cable Characteristics

Attenuation

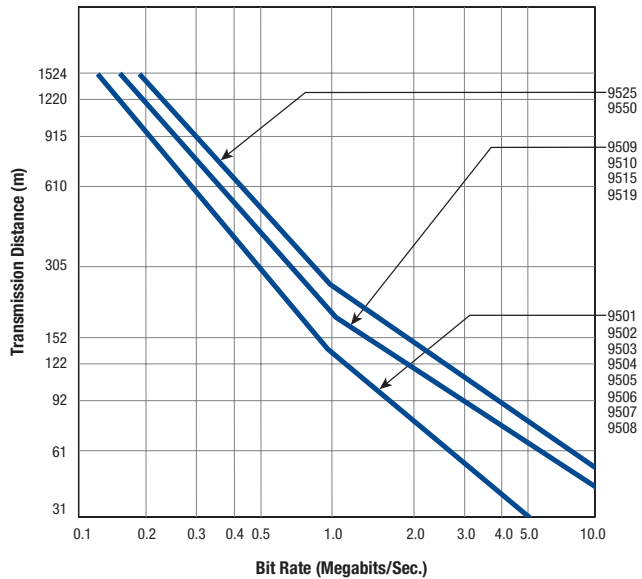


Rise Time



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

Bit Rate



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

Overall Beldfoil® Shield

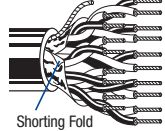
High-Temperature Control, Instrumentation Cables and Computer Cables
for EIA RS-232 Applications

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

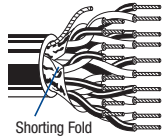
Overall Beldfoil® Shield

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

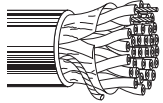
30V 80°C UL AWM Style 2919	NEC: CM CEC: CM						0.61 mm 24 AWG (7x32) TC	0.054	1.37	Overall Beldfoil® + Drain Wire (24 AWG TC)			100	66%			see chart 5 (Tech Info Section)
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9680	3-Pair	500	152	17.0	7.7	0.282	7.16	CDR/CDR	15	51
		1000	305	38.1	17.3					
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						CDR/SCR	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						CDR/SCR	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						CDR/SCR	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						CDR/SCR	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						CDR/SCR	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						CDR/SCR	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						CDR/SCR	22	72

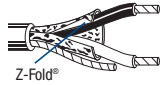
TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

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	

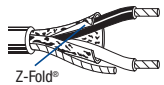
22 AWG • Solid 0.6 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield • 22 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket																			
 Z-Fold®	300V 60°C	8761	NEC:	U-500	U-152	9.0	4.1	0.64 mm	0.057	1.46	Overall Beldfoil® + Drain Wire (22 AWG TC)	0.175	4.45	-	-	CDR/CDR	24	79	Black, Clear
	UL AWM Style 2092	CM		500	152	9.0	4.1	22 AWG								CDR/SCR	47	154	
		CEC:		U-1000	U-305	17.0	7.7	Solid TC											
		CM		1000	305	18.1	8.2												
				2000	610	35.9	16.3												
			5000	1524	90.2	40.9													
			† 10000	3048	170.4	77.3													

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


1-Pair

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield • 22 AWG Tinned Copper Drain Wire

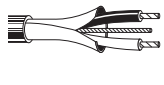
PVC Insulation • Beige PVC Jacket																			
 Z-Fold®	300V 80°C	9154	NEC:	U-500	U-152	11.5	5.2	0.96 mm	0.066	1.68	Overall Beldfoil® + Drain Wire (22 AWG TC)	0.198	5.03	-	-	CDR/CDR	60	197	Black, Red
	UL AWM Style 2464	CMG		500	152	12.1	5.5	20 AWG								CDR/SCR	100	328	
		CEC:		U-1000	U-305	22.0	10.0	(7x28) TC											
		CMG FT4		1000	305	23.1	10.5												

1-Pair

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield • 20 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket																			
 Shorting Fold	300V 60°C	8762	NEC:	100	31	3.3	1.5	0.96 mm	0.070	1.78	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.204	5.18	-	-	CDR/CDR	27	89	Black, Clear
	UL AWM Style 2092	CM		250	76	6.2	2.8	20 AWG								CDR/SCR	49	161	
		CEC:		U-500	U-152	12.1	5.5	(7x28) TC											
		CM		500	152	12.1	5.5												
				U-1000	U-305	23.1	10.5												
			1000	305	23.1	10.5													
			2000	610	46.1	20.9													
			10000	3048	240.5	109.1													

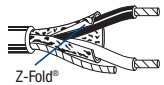
1-Pair

Polyethylene Insulation • Chrome PVC Jacket																			
	300V 60°C	9464	NEC:	U-500	U-152	17.0	7.7	0.96 mm	0.070	1.78	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.214	5.44	-	-	CDR/CDR	27	89	Black, Clear
	UL AWM Style 2092	CM		U-1000	U-305	32.0	14.5	20 AWG								CDR/SCR	49	161	
		CEC:						(7x28) TC											
		CM																	

1-Pair

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

18 AWG • Stranded (19x30) 1.2 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield • 20 AWG Tinned Copper Drain Wire

Plenum • FEP Insulation • Natural Flamarrst® Jacket																			
 Z-Fold®	300V RMS	82760	NEC:	†† U-500	U-152	11.9	5.4	1.24 mm	0.063	1.60	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.150	3.81	-	-	CDR/CDR	51	167	Black, Red
		CMP		†† U-1000	U-305	22.0	10.0	18 AWG								CDR/SCR	97	318	
		CEC:		†† 1000	305	20.9	9.5	(19x30) TC											
		CMP FT6																	

1-Pair


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

† Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 460 m (1500 ft).


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

Overall Beldfoil® Shield


Audio, Control and Instrumentation Cables

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				
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield • 18 AWG Tinned Copper Drain Wire																				
Polyethylene Insulation • Chrome PVC Jacket																				
 Shorting Fold 1-Pair	600V 80°C 8719	NEC:	U-500	U-152	24.5	11.1	1.47 mm	0.122	3.09	Overall Beldfoil® + Drain Wire (18 AWG TC)	0.313	7.95	-	-	CDR/CDR	23	75	Black, Clear		
	UL AWM Style 20253	CM CL2	500	152	25.6	11.6	16 AWG									CDR/SCR	44		144	
		CEC:	U-1000	U-305	47.0	21.3	(19x29) TC													
		CM	1000	305	50.0	22.7														
			2000	610	100.3	45.5														
		5000	1524	245.6	111.4															
		10000	3048	509.9	231.3															

14 AWG • Stranded (19x27) 1.9 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield • 16 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket																			
 Z-Fold® 1-Pair	600V 80°C 8720	NEC:	U-500	U-152	34.0	15.4	1.85 mm	0.137	3.47	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.355	9.02	-	-	CDR/CDR	24	79	Black, Clear	
	UL AWM Style 20253	CM CL2	500	152	35.1	15.9	14 AWG									CDR/SCR	47		154
			1000	305	71.2	32.3	(19x27) TC												
			2000	610	138.2	62.7													

12 AWG • Stranded (19x25) 2.4 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield • 14 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket																			
 Z-Fold® 1-Pair	600V 80°C 8718	NEC:	U-500	U-152	47.6	21.6	2.36 mm	0.167	4.24	Overall Beldfoil® + Drain Wire (14 AWG TC)	0.400	10.16	-	-	CDR/CDR	25	82	Black, Clear	
	UL AWM Style 20253	CL2	500	152	50.5	22.9	12 AWG									CDR/SCR	49		161
			1000	305	100.3	45.5	(19x25) TC												
			2000	610	198.4	90.0													

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