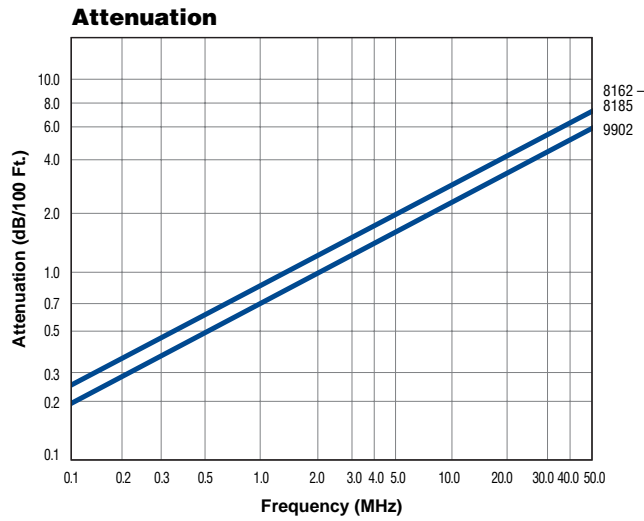
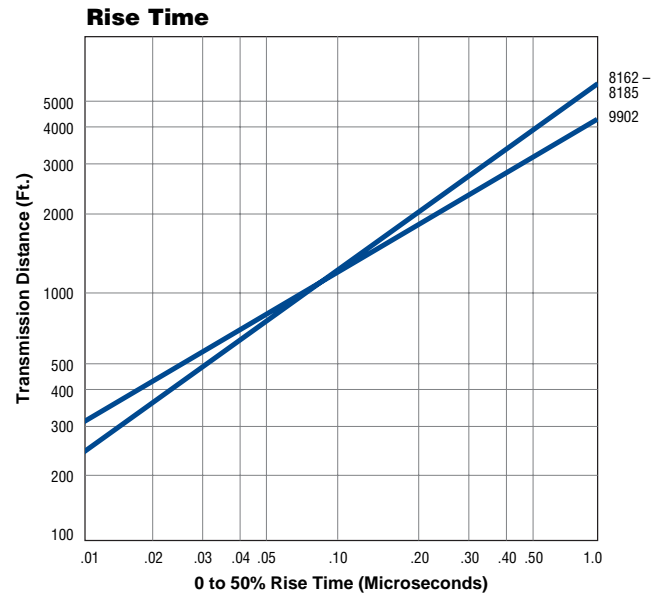


Individually Shielded Pairs with Overall Foil/Braid Shield

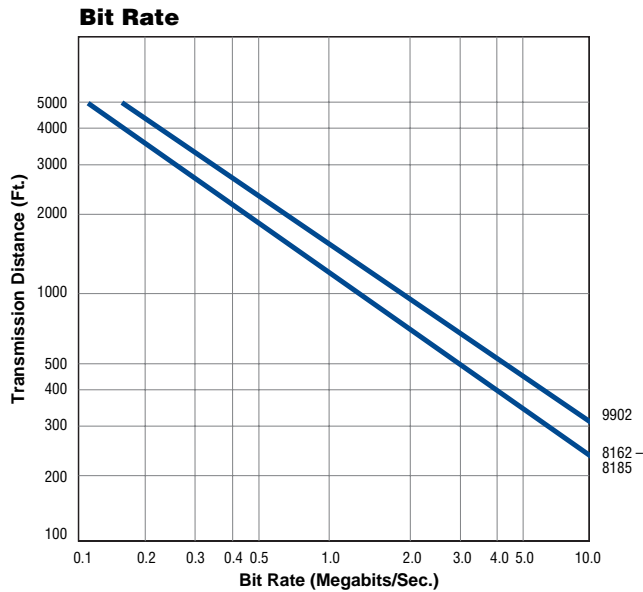
Cable Characteristics



Note: see index for 9902 page number.



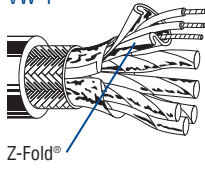
Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 ohms and 10% to 90% rise time less than 5 nanoseconds.



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

Individually Shielded Pairs with Overall Foil/Braid Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs Individually Beldfoil® Shielded + Overall Beldfoil (100% Coverage) + TC Braid Shield (65%) • Drain Wire[▲]																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (60°C) VW-1 	8162	NEC:	2	See	100	30.5	6.2	2.8	24.0Ω/M'	Individual:	.343	8.71	100	78%	12.5	41	22	72.2
		CM		Chart 3	500	152.4	30.0	13.6	78.7Ω/km	18.0Ω/M'								
	CEC:	(Tech Info Section)	1000	304.8	57.0	25.9	59.1Ω/km	Overall:										
	CM		4.3Ω/M'	14.1Ω/km														
	8163	NEC:	3	See	100	30.5	7.0	3.2	24.0Ω/M'	Individual:	.359	9.12	100	78%	12.5	41	22	72.2
		CM		Chart 3	500	152.4	34.0	15.5	78.7Ω/km	18.0Ω/M'								
	CEC:	(Tech Info Section)	1000	304.8	66.0	30.0	59.1Ω/km	Overall:										
CM	4.4Ω/M'		14.4Ω/km															
8164	NEC:	4	See	100	30.5	8.2	3.7	24.0Ω/M'	Individual:	.388	9.86	100	78%	12.5	41	22	72.2	
	CM		Chart 3	500	152.4	39.5	18.0	78.7Ω/km	18.0Ω/M'									
CEC:	(Tech Info Section)	1000	304.8	79.0	35.9	59.1Ω/km	Overall:											
CM		3.2Ω/M'	10.5Ω/km															
8165	NEC:	5	See	100	30.5	9.0	4.1	24.0Ω/M'	Individual:	.413	10.49	100	78%	12.5	41	22	72.2	
	CM		Chart 3	500	152.4	45.0	20.5	78.7Ω/km	18.0Ω/M'									
CEC:	(Tech Info Section)	1000	304.8	89.0	40.5	59.1Ω/km	Overall:											
CM		3.4Ω/M'	11.2Ω/km															
8166	NEC:	6	See	100	30.5	9.0	4.1	24.0Ω/M'	Individual:	.446	11.33	100	78%	12.5	41	22	72.2	
	CM		Chart 3	500	152.4	50.0	22.7	78.7Ω/km	18.0Ω/M'									
CEC:	(Tech Info Section)	1000	304.8	99.0	45.0	59.1Ω/km	Overall:											
CM		2.8Ω/M'	9.2Ω/km															
8167	NEC:	7	See	500	152.4	52.5	23.9	24.0Ω/M'	Individual:	.446	11.33	100	78%	12.5	41	22	72.2	
	CM		Chart 3	1000	304.8	103.0	46.7	78.7Ω/km	18.0Ω/M'									
CEC:	(Tech Info Section)	59.1Ω/km	Overall:															
CM		2.8Ω/M'	9.2Ω/km															

[▲]24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

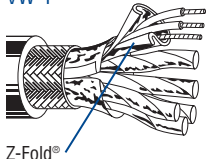
*Capacitance between conductors.

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

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

Individually Shielded Pairs with Overall Foil/Braid Shield

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

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs Individually Beldfoil® Shielded + Overall Beldfoil (100% Coverage) + TC Braid Shield (65%) • Drain Wire [▲]																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (60°C) VW-1  Z-Fold®	8168	NEC:	8	See Chart 3 (Tech Info Section)	100	30.5	10.8	4.9	24.0Ω/M'	Individual:	.479 12.17	100	78%	12.5	41	22	72.2	
		CM			500	152.4	61.5	28.0	78.7Ω/km	18.0Ω/M'								
		CEC:			1000	304.8	115.0	52.3	59.1Ω/km	Overall:								
		CM							3.0Ω/M'	9.8Ω/km								
	8170	NEC:	10	See Chart 3 (Tech Info Section)	100	30.5	18.0	8.2	24.0Ω/M'	Individual:	.584 14.83	100	78%	12.5	41	22	72.2	
CM		500			152.4	83.0	37.7	78.7Ω/km	18.0Ω/M'									
CEC:		1000			304.8	164.0	74.5	59.1Ω/km	Overall:									
CM								2.7Ω/M'	8.9Ω/km									
	8175	NEC:	15	See Chart 3 (Tech Info Section)	100	30.5	22.6	10.3	24.0Ω/M'	Individual:	.665 16.89	100	78%	12.5	41	22	72.2	
CM		500			152.4	107.5	48.9	78.7Ω/km	18.0Ω/M'									
CEC:		1000			304.8	210.0	95.5	59.1Ω/km	Overall:									
CM								2.5Ω/M'	8.2Ω/km									
	8178	NEC:	18	See Chart 3 (Tech Info Section)	100	30.5	24.6	11.2	24.0Ω/M'	Individual:	.686 17.42	100	78%	12.5	41	22	72.2	
CM		500			152.4	117.0	53.2	78.7Ω/km	18.0Ω/M'									
CEC:		1000			304.8	238.0	108.2	59.1Ω/km	Overall:									
CM								2.6Ω/M'	8.5Ω/km									
	8185	NEC:	25	See Chart 3 (Tech Info Section)	100	30.5	32.3	14.7	24.0Ω/M'	Individual:	.822 20.88	100	78%	12.5	41	22	72.2	
CM		500			152.4	160.5	73.0	78.7Ω/km	18.0Ω/M'									
CEC:		1000			304.8	356.0	161.8	59.1Ω/km	Overall:									
CM								2.4Ω/M'	7.9Ω/km									

[▲]24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

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

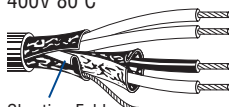
Combination Shields

Special Audio, Communication and Instrumentation Cables

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

25 AWG Stranded (7x33) Tinned Copper Conductors • Overall Beldfoil® Shield (100% Coverage) • 25 AWG Stranded TC Drain Wire


Polyethylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

 <p>400V 80°C</p> <p>Shorting Fold</p>	8434		2	Shielded: Red & Black Unshielded: Green & White	100	30.5	2.1	1.0	.013	.33	.020	.51	.165	4.19	25	82	40	131				
					500	152.4	7.0	3.2														
					U-1000	U-304.8	14.0	6.4														
					1000	304.8	12.0	5.5														

Red/Black pair 100% Beldfoil shielded with drain wire.
3 copper, 4 copper-covered steel strands in each conductor.

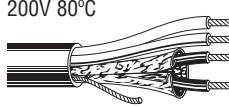
22 AWG Stranded (7x30) Tinned Copper Conductors • One Pair Beldfoil Shielded (100% Coverage) • Stranded Tinned Copper Drain Wire


PVC Insulation • Chrome PVC Jacket (Pair and Single Cabled)

 <p>300V RMS 90°C</p>	9685	NEC: CM	1.5 (1 pair + 1 single)	Shielded: Black & White Unshielded: Brown	U-1000	U-304.8	24.0	10.9	.013	.33	.032	.81	.199	5.05	60	197	99	325

Meets NEC Article 800
22 AWG drain wire

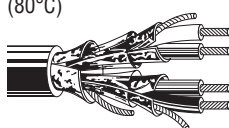
Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

 <p>200V 80°C</p> <p>24 AWG drain wire</p>	8730[†]		2	Shielded: Red & Black Unshielded: Green & White	U-1000	U-304.8	24.0	10.9	.008	.20	.030	.76	.205	5.21	34	112	67	220
					1000	304.8	26.0	11.8										

 <p>300V 80°C VW-1</p> <p>24 AWG drain wire</p>	8724[†]	NEC: CM CEC: CM	2	Shielded: Red & Black Unshielded: Green & White	U-1000	U-304.8	21.0	9.5	.008	.20	.019	.48	.165	4.19	34	112	67	220
					1000	304.8	21.0	9.5										

22 AWG Stranded (7x30) TC Conductors • Cabled in Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wires

Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

 <p>UL AWM Style 2717 (80°C)</p>	8728	NEC: CM CEC: CM	2	Black & Red Green & White	U-500	U-152.4	15.5	7.0	.010	.25	.028	.71	.215	5.46	35	115	62	203				
					500	152.4	15.5	7.0														
					U-1000	U-304.8	30.0	13.6														
					1000	304.8	31.0	14.0														

Meets NEC Article 800
Each pair Beldfoil shielded with individual drain wire plus polyester film over each shield.

TC = Tinned Copper

* Capacitance between conductors.

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

† Request Technical Bulletin T/8-21 before planning high and low level circuits in the same cable.

Combination Shields

Special Audio, Communication and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	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 • Beldfoil® Shield as noted (100% Coverage) • 20 or 22 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

350V 80°C	8763	—	1.5 (1 pair + 1 single)	Shielded: Black & Red Unshielded: Clear	1000	304.8	25.0	11.4	.014	.36	.028	.71	.210	5.33	26	85	48	157
-----------	-------------	---	-------------------------------	---	------	-------	------	------	------	-----	------	-----	------	------	----	----	----	-----

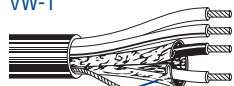


Z-Fold®

Beldfoil shield over Red and Black pair only. Clear conductor is unshielded. 20 AWG drain wire.

PVC Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

350V 80°C	8722	NEC: 2	Shielded: Red & Black	U-500	U-152.4	18.0	8.2	.015	.38	.028	.71	.226	5.74	60	197	99	325
VW-1		CMG	Red & Black	500	152.4	18.5	8.4										
		CEC: CMG FT4	Unshielded: Green & White	U-1000	U-304.8	35.0	15.9										
				1000	304.8	36.0	16.4										

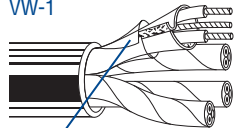


Z-Fold®

Beldfoil shield over Red and Black conductors only. 22 AWG drain wire. Request Technical Bulletin T/8-21 before planning high and low level circuits in the same cable.

Polypropylene Insulation • Chrome PVC Jacket (Cabled Around a Common Axis)

400V 105°C	8725	NEC: 4	Red & Black;	500	152.4	38.0	17.3	.015	.38	.030	.76	.345	8.76	27	89	49	161
VW-1		CM	Green & White;	1000	304.8	74.0	33.6										
		CEC: CM	White/Red & White/Black;														
			White/Green & White/Yellow														



Shorting Fold

Four groups of two conductors with drain wires, each group individually Beldfoil shielded with polyester tape wrap. 22 AWG drain wire.

20 and 18 AWG Stranded (7x28 and 16x30) TC Conductors • Beldfoil Shield (100% Coverage) over 20 AWG Pair • 22 AWG Stranded TC Drain Wire

Polyethylene Insulation • Beige PVC Jacket

UL AWM Style 2094 (300V 60°C)	9155	NEC: 2		500	152.4	22.5	10.2	.020	.51	.031	.79	.262	6.65	24	79	46	151
		CM	1 Shld Black & Red	U-1000	U-304.8	46.0	20.9										
		CEC: CM	20 (7x28)	1000	304.8	48.0	21.8										
			1 Unshld Green & 18 (16x30) White					.019	.48					22	72		



Z-Fold®

NEC Article 800

TC = Tinned Copper

* Capacitance between conductors.

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