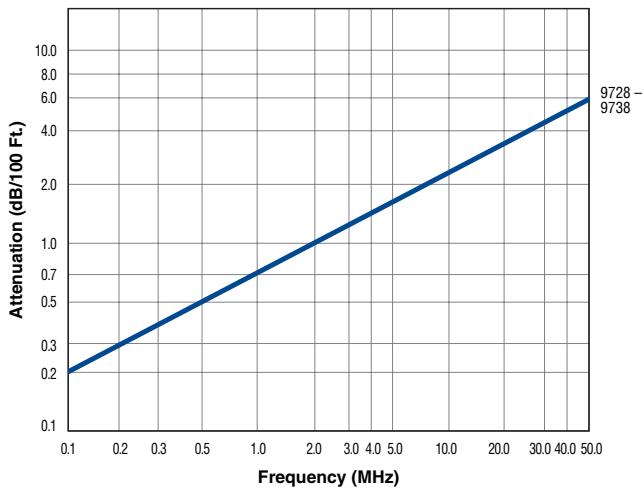
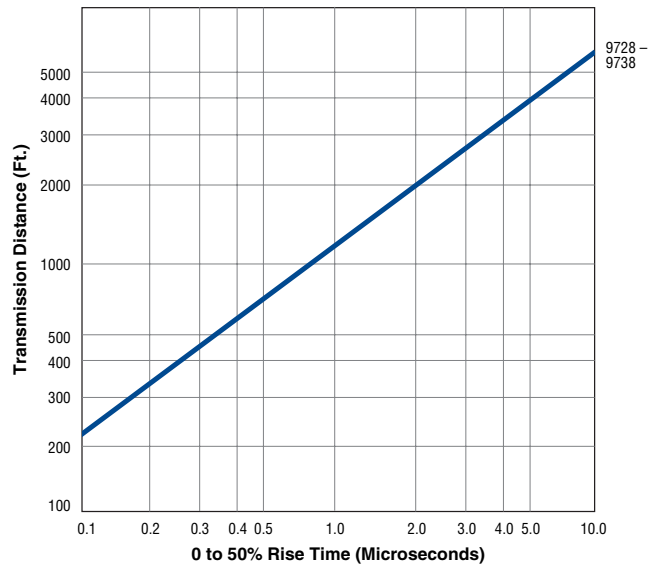


# Individually Shielded Cable Characteristics

**Attenuation**

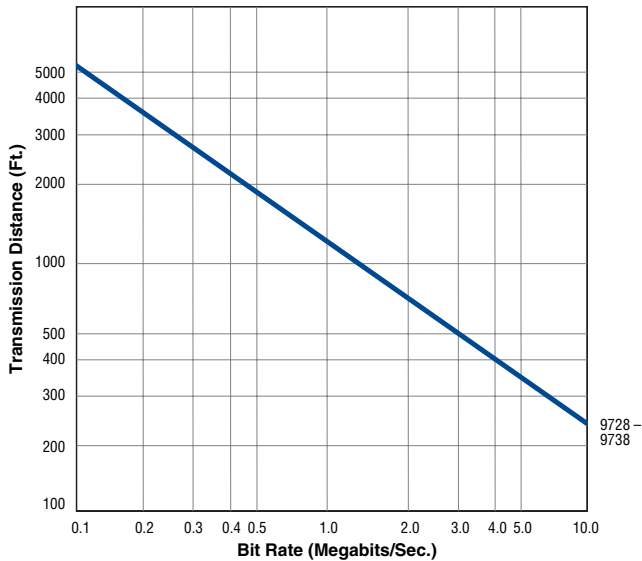


**Rise Time**



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

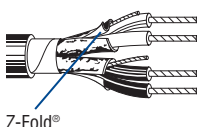
**Bit Rate**



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

# Individually Shielded

Low-Capacitance 100 Ohm Computer Cables for 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	
<b>24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire</b>																			
<b>Datalene® Insulation • Chrome PVC Jacket</b>																			
 <p>Z-Fold®</p>	9729	NEC:	2	See Chart 3	100	30.5	4.3	2.0	24.0Ω/M'	15.0Ω/M'	.266	6.76	100	76%	12.5	41.0	23.2	76.1	
		CM			500	152.4	20.5	9.3	78.7Ω/km	49.2Ω/km	For Plenum version of 9729, see 89729 or 82729.								
	CEC:	CM	(Tech Info Section)	1000	304.8	39.0	17.7												
	CM			10000†	3048.0	390.0	177.8												
	9730	NEC:	3	See Chart 3	100	30.5	5.1	2.3	24.0Ω/M'	15.0Ω/M'	.334	8.48	100	76%	12.5	41.0	23.2	76.1	
		CM			500	152.4	24.5	11.1	78.7Ω/km	49.2Ω/km	For Plenum version of 9730, see 89730.								
	CEC:	CM	(Tech Info Section)	1000	304.8	46.0	20.9												
	CM			10000†	3048.0	520.0	236.4												
	9728	NEC:	4	See Chart 3	100	30.5	6.0	2.7	24.0Ω/M'	15.0Ω/M'	.363	9.22	100	76%	12.5	41.0	23.2	76.1	
		CM			500	152.4	29.0	13.2	78.7Ω/km	49.2Ω/km	For Plenum version of 9728, see 89728.								
CEC:	CM	(Tech Info Section)	1000	304.8	51.0	23.1													
CM			10000†	3048.0	510.0	231.0													
9731	NEC:	6	See Chart 3	100	30.5	7.4	3.4	24.0Ω/M'	15.0Ω/M'	.421	10.69	100	76%	12.5	41.0	23.2	76.1		
	CM			500	152.4	42.0	19.1	78.7Ω/km	49.2Ω/km	For Plenum version of 9731, see 89731.									
CEC:	CM	(Tech Info Section)	1000	304.8	83.0	37.7													
CM			10000†	3048.0	830.0	377.0													
9732	NEC:	9	See Chart 3	100	30.5	9.9	4.5	24.0Ω/M'	15.0Ω/M'	.488	12.40	100	76%	12.5	41.0	23.2	76.1		
	CM			500	152.4	57.0	26.0	78.7Ω/km	49.2Ω/km	For Plenum version of 9732, see 89732.									
CEC:	CM	(Tech Info Section)	1000	304.8	106.0	48.1													
CM			10000†	3048.0	1060.0	481.0													
9733	NEC:	11	See Chart 3	500	152.4	75.0	34.1	24.0Ω/M'	15.0Ω/M'	.575	14.61	100	76%	12.5	41.0	23.2	76.1		
	CM			1000	304.8	154.0	70.0	78.7Ω/km	49.2Ω/km										
CEC:	CM	(Tech Info Section)	1000	304.8	154.0	70.0													
CM			10000†	3048.0	1540.0	700.0													
9734	NEC:	12	See Chart 3	500	152.4	79.5	36.1	24.0Ω/M'	15.0Ω/M'	.575	14.61	100	76%	12.5	41.0	23.2	76.1		
	CM			1000	304.8	154.0	70.0	78.7Ω/km	49.2Ω/km										
CEC:	CM	(Tech Info Section)	1000	304.8	154.0	70.0													
CM			10000†	3048.0	1540.0	700.0													
9735	NEC:	15	See Chart 3	500	152.4	95.0	43.2	24.0Ω/M'	15.0Ω/M'	.639	16.23	100	76%	12.5	41.0	23.2	76.1		
	CM			1000	304.8	185.0	84.1	78.7Ω/km	49.2Ω/km										
CEC:	CM	(Tech Info Section)	1000	304.8	185.0	84.1													
CM			10000†	3048.0	1850.0	841.0													
9736	NEC:	17	See Chart 3	500	152.4	103.5	47.0	24.0Ω/M'	15.0Ω/M'	.671	17.04	100	76%	12.5	41.0	23.2	76.1		
	CM			1000	304.8	210.0	95.5	78.7Ω/km	49.2Ω/km										
CEC:	CM	(Tech Info Section)	1000	304.8	210.0	95.5													
CM			10000†	3048.0	2100.0	955.0													
9737	NEC:	19	See Chart 3	1000	304.8	231.0	105.0	24.0Ω/M'	15.0Ω/M'	.671	17.04	100	76%	12.5	41.0	23.2	76.1		
	CM			1000	304.8	231.0	105.0	78.7Ω/km	49.2Ω/km										
CEC:	CM	(Tech Info Section)	1000	304.8	231.0	105.0													
CM			10000†	3048.0	2310.0	1050.0													
9738	NEC:	27	See Chart 3	1000	304.8	334.0	151.8	24.0Ω/M'	15.0Ω/M'	.797	20.24	100	76%	12.5	41.0	23.2	76.1		
	CM			1000	304.8	334.0	151.8	78.7Ω/km	49.2Ω/km										
CEC:	CM	(Tech Info Section)	1000	304.8	334.0	151.8													
CM			10000†	3048.0	3340.0	1518.0													

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

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

† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.

See Attenuation, Rise Time and Bit Rate Data for this series on page 5.34.

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.

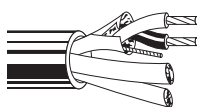
## Individually Shielded

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

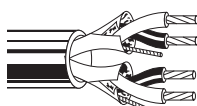
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire**

**Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket**

	300V RMS	<b>89729</b>	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	17.0 31.0	7.7 14.1	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.261 6.63	100	76%	13.5	44	22.5	73.8
		<b>89730</b>	NEC: CMP CEC: CMP FT6	3	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	21.5 40.0	9.8 18.2	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.278 7.06	100	76%	13.5	44	22.5	73.8
		<b>89728</b>	NEC: CMP CEC: CMP FT6	4	See Chart 5 (Tech Info Section)	500 1000	152.4 304.8	26.5 50.0	12.0 22.7	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.307 7.80	100	76%	13.5	44	22.5	73.8
		<b>89731</b>	NEC: CMP CEC: CMP FT6	6	See Chart 5 (Tech Info Section)	500 1000†	152.4 304.8	35.0 71.0	15.9 32.3	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.361 9.17	100	76%	13.5	44	22.5	73.8
		<b>89732</b>	NEC: CMP CEC: CMP FT6	9	See Chart 5 (Tech Info Section)	1000	304.8	108.0	49.0	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.429 10.90	100	76%	13.5	44	22.5	73.8

**Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket**

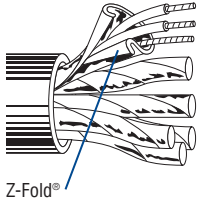
	300V RMS	<b>82729</b>	NEC: CMP CEC: CMP FT6	2	See Chart 5 (Tech Info Section)	U-1000 1000	U-304.8 304.8	26.0 28.0	11.8 12.7	23.3Ω/M' 76.4Ω/km	14.4Ω/M' 47.2Ω/km	.255 6.48	100	76%	13.5	44	22.5	73.8
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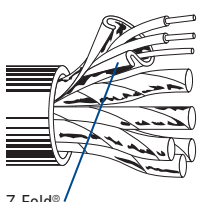
DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.  
\*\*Capacitance between one conductor and other conductors connected to shield.  
† Spools are one piece, but length may vary ±10% from length shown.

# Individually Shielded

## Audio, Control and Instrumentation Cables

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
<b>24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire</b>																		
<b>Polyethylene Insulation • Chrome PVC Jacket</b>																		
 <p>Z-Fold®</p>	9990	NEC:	3	See Chart 3 (Tech Info Section)	500	152.4	16.0	7.3	24.0Ω/M'	18.0Ω/M'	.255	6.48	60	66%	25	82	47	154
		CM			1000	304.8	36.0	16.4	78.7Ω/km	59.1Ω/km								
		CEC:																
		CM																
	9991	NEC:	6	See Chart 3 (Tech Info Section)	100	30.5	6.7	3.1	24.0Ω/M'	18.0Ω/M'	.330	8.38	60	66%	25	82	47	154
CM	500	152.4			32.5	14.7	78.7Ω/km	59.1Ω/km										
CEC:	1000	304.8			62.0	28.3												
CM																		
	9992	NEC:	9	See Chart 3 (Tech Info Section)	100	30.5	8.8	4.0	24.0Ω/M'	18.0Ω/M'	.383	9.73	60	66%	25	82	47	154
CM	500	152.4			42.5	19.3	78.7Ω/km	59.1Ω/km										
CEC:	1000	304.8			86.0	39.1												
CM																		
	9993	NEC:	12	See Chart 3 (Tech Info Section)	100	30.5	9.8	4.5	24.0Ω/M'	18.0Ω/M'	.428	10.87	60	66%	25	82	47	154
CM	500	152.4			107.0	48.6	78.7Ω/km	59.1Ω/km										
CEC:	1000	304.8			107.0	48.6												
CM																		
	9995	NEC:	25	See Chart 3 (Tech Info Section)	100	30.5	21.2	9.7	24.0Ω/M'	18.0Ω/M'	.636	16.15	60	66%	25	82	47	154
CM	500	152.4			116.0	52.7	78.7Ω/km	59.1Ω/km										
CEC:	1000	304.8			228.0	103.6												
CM																		

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			
<b>22 AWG Solid Conductors • TC • Twisted Pairs • Individually Shielded w/ Beldfoil (100% Coverage) • 22 AWG Solid TC Drain Wire</b>																					
<b>PVC Insulation • Overall Chrome PVC Jacket</b>																					
 <p>Z-Fold®</p>	8767	NEC:	3	See Chart 3 (Tech Info Section)	U-500	U-152.4	22.5	10.3	.013	.33	.037	.94	.279	7.10	40	131	77	253			
		MPG, CMG			500	152.4	23.0	10.5													
		CEC: MPG, CMG FT4			1000	304.8	46.0	21.0													
	8768	NEC:	6	See Chart 3 (Tech Info Section)	500	152.4	46.5	21.1	.013	.33	.037	.94	.379	9.60	40	131	77	253			
MPG, CMG	500	152.4			46.5	21.1															
CEC: MPG, CMG FT4	1000	304.8			92.0	41.8															
	8764	NEC	9	See Chart 3 (Tech Info Section)	1000	304.8	122.0	55.5	.013	.33	.040	1.02	.425	10.80	40	131	77	253			
MPG, CMG	1000	304.8			122.0	55.5															
CEC: MPG, CMG FT4																					
	8765	NEC	11	See Chart 3 (Tech Info Section)	500	152.4	76.5	34.8	.013	.33	.040	1.02	.470	11.90	40	131	77	253			
MPG, CMG	500	152.4			76.5	34.8															
CEC: MPG, CMG FT4	1000	304.8			149.0	67.7															
	8766	NEC:	15	See Chart 3 (Tech Info Section)	500	152.4	101.5	46.1	.013	.33	.045	1.14	.525	13.30	40	131	77	253			
MPG, CMG	500	152.4			101.5	46.1															
CEC: MPG, CMG FT4	1000	304.8			196.0	89.1															

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

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


# Individually Shielded

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

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

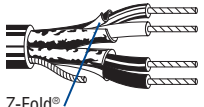
**22 AWG** Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire

**Semi-rigid PVC Insulation • Pale Fawn Beige PVC Jacket** (Shielded Pairs Parallel under Jacket)

 <p>UL AWM Style 2464 (300V 80°C)</p> <p>Z-Fold®</p>	<b>9406</b>	NEC:	2	Black &	100	30.5	3.8	1.7	15.0Ω/M'	13.0Ω/M'	.173	4.39	50	60%	50	164	95	312
		CMG		White,	U-500	U-152.4	16.5	7.5	49.2Ω/km	42.7Ω/km	x	x						
		CEC:		Black &	500	152.4	17.0	7.7			.280	7.11						
		CMG FT4		Yellow	U-1000	U-304.8	32.0	14.5										
					1000	304.8	33.0	15.0										

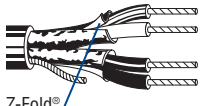
**22 AWG** Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 24 AWG Stranded TC Drain Wire

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

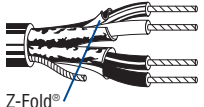
 <p>300V RMS 60°C</p> <p>Z-Fold®</p>	<b>8723</b>	NEC:	2	Red &	100	30.5	2.3	1.0	15.0Ω/M'	16.6Ω/M'	.160	4.06	45	66%	35	115	62	203
		CM		Black,	U-500	U-152.4	10.5	4.8	49.2Ω/km	54.5Ω/km								
		CEC:		Green &	500	152.4	10.0	4.5										
		CM		White	U-1000	U-304.8	20.0	9.1										

For Plenum versions of 8723, see 88723, 87723 or 82723.

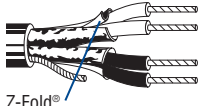
**Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

 <p>300V RMS 60°C</p> <p>Z-Fold®</p>	<b>8723SB</b>	NEC:	2	Red &	1000	304.8	26.0	11.8	14.7Ω/M'	15.0Ω/M'	.196	4.98	45	66%	35	115	62	203
		<b>new</b> CMG-LS		Black,					48.2Ω/km	49.2Ω/km								
		CEC:		Green &														
		CMG-LS FT4		White														
		Limited Smoke																

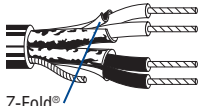
**Plenum • FEP Insulation • Natural Flammarrest® Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

 <p>300V RMS, Non-conduit</p> <p>Z-Fold®</p>	<b>82723</b>	NEC:	2	Red &	U-500†	U-152.4	10.5	4.8	14.7Ω/M'	16.6Ω/M'	.153	3.89	36	62%	43	141	75	246
		CMP		Black,	U-1000	U-304.8	20.0	9.1	48.2Ω/km	54.5Ω/km								
		CEC:		Green &	1000†	304.8	19.0	8.6										
		CMP FT6		White	U-2000†	U-609.6	40.0	18.1										

**Plenum • FEP Insulation • Red FEP Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

 <p>300V RMS, Non-conduit</p> <p>Z-Fold®</p>	<b>88723</b>	NEC:	2	Red &	100†	30.5	3.4	1.5	16.0Ω/M'	14.7Ω/M'	.148	3.76	40	69%	35	115	67	220
		CMP		Black,	500†	152.4	11.0	5.0	52.5Ω/km	48.2Ω/km								
		CEC:		Green &	1000†	304.8	19.0	8.6										
		CMP FT6		White														

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket** (Pairs Cabled on Common Axis to Reduce Diameter)

 <p>300V RMS, Non-conduit</p> <p>Z-Fold®</p>	<b>87723</b>	NEC:	2	Red &	500†	152.4	11.0	5.0	14.7Ω/M'	15.0Ω/M'	.148	3.76	40	69%	35	115	67	220
		CMP		Black,	1000†	304.8	20.0	9.1	48.2Ω/km	49.2Ω/km								
		CEC:		Green &														
		CMP FT6		White														

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

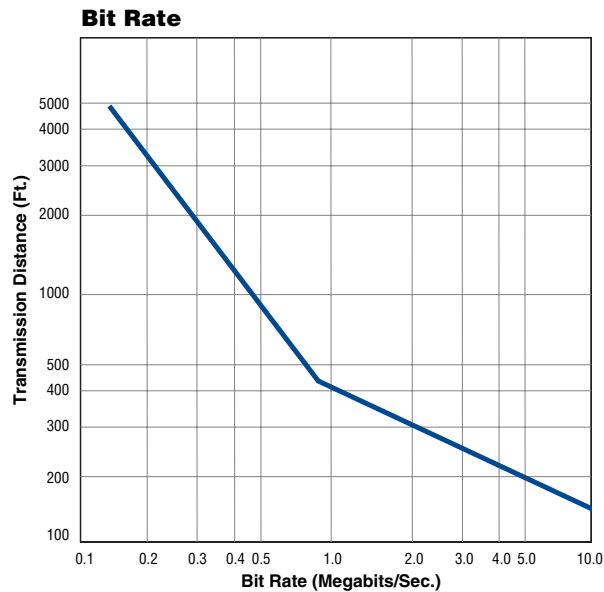
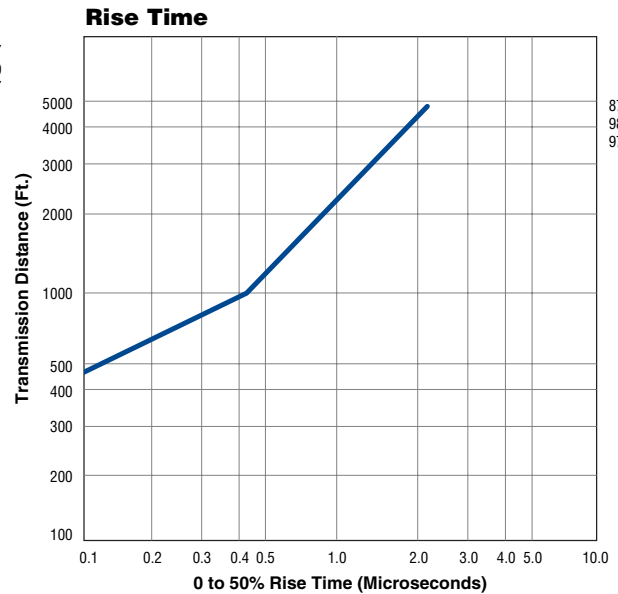
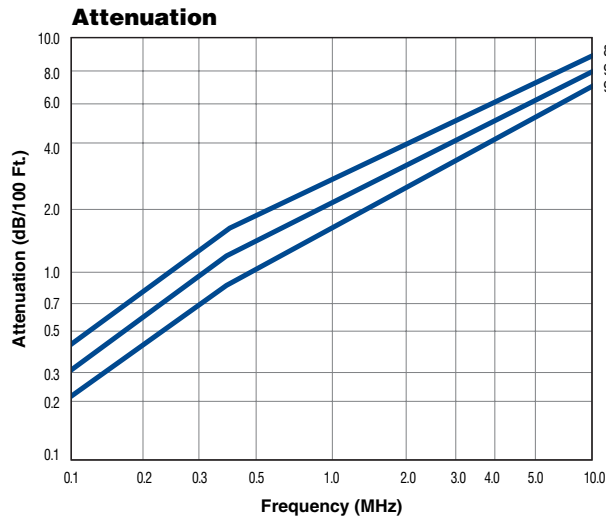
\*Capacitance between conductors.

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

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

# Individually Shielded

## Cable Characteristics



Recommended for audio, pulse, and radio frequency applications requiring superior circuit isolation.

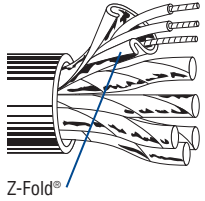
**Insulation resistance between shields:**  
100 megohms/M' nom.

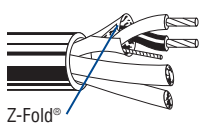
**Capacitance between adjacent shields:**  
115 pF/ft. nom.

**Working voltage between adjacent shields:**  
50 volts max.

# Individually Shielded

## Audio, Control and Instrumentation Cables

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
<b>22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire</b>																		
<b>Polypropylene Insulation • Chrome PVC Jacket</b>																		
 <p>Z-Fold®</p>	8777	NEC:	3	See	100	30.5	4.7	2.1	15.0Ω/M'	10.6Ω/M'	.273	6.93	50	66%	30	98	55	180
		CM		Chart 3	250	76.2	10.0	4.5	49.2Ω/km	34.8Ω/km								
		CEC:		(Tech Info	U-500	U-152.4	21.0	9.5										
		CM		Section)	500	152.4	20.0	9.1										
					U-1000	U-304.8	41.0	18.6										
					1000	304.8	44.0	20.0										
					1640	499.9	70.5	32.0										
					3280	999.7	141.0	64.0										
					5000	1524.0	215.0	97.6										
					10000††	3048.0	460.0	208.8										
For Plenum versions of 8777, see 88777, 87777 or 82777.																		
8778	NEC:	6	See	100	30.5	8.4	3.8	15.0Ω/M'	10.6Ω/M'	.362	9.19	50	66%	30	98	55	180	
	CM		Chart 3	250	76.2	19.0	8.6	49.2Ω/km	34.8Ω/km									
	CEC:		(Tech Info	500	152.4	43.0	19.5											
	CM		Section)	1000	304.8	83.0	37.7											
For Plenum versions of 8778, see 88778, 87778 or 82778.																		
8774	NEC:	9	See	100	30.5	11.5	5.2	15.0Ω/M'	10.6Ω/M'	.417	10.59	50	66%	30	98	55	180	
	CM		Chart 3	250	76.2	29.5	13.4	49.2Ω/km	34.8Ω/km									
	CEC:		(Tech Info	500	152.4	57.5	26.1											
	CM		Section)	1000	304.8	113.0	51.3											
8775	NEC:	11	See	100	30.5	12.1	5.5	15.0Ω/M'	10.6Ω/M'	.464	11.79	50	66%	30	98	55	180	
	CM		Chart 3	500	152.4	65.5	29.7	49.2Ω/km	34.8Ω/km									
	CEC:		(Tech Info	1000	304.8	130.0	59.0											
	CM		Section)															
9768	NEC:	12	See	100	30.5	13.2	6.0	15.0Ω/M'	10.6Ω/M'	.464	11.79	50	66%	30	98	55	180	
	CM		Chart 3	250	76.2	36.5	16.5	49.2Ω/km	34.8Ω/km									
	CEC:		(Tech Info	500	152.4	73.5	33.4											
	CM		Section)	1000	304.8	143.0	65.0											
8776	NEC:	15	See	100	30.5	17.8	8.1	15.0Ω/M'	10.6Ω/M'	.548	13.92	50	66%	30	98	55	180	
	CM		Chart 3	250	76.2	49.5	22.5	49.2Ω/km	34.8Ω/km									
	CEC:		(Tech Info	500	152.4	98.0	44.5											
	CM		Section)	1000	304.8	197.0	89.5											
9769	NEC:	17	See	100	30.5	20.0	9.1	15.0Ω/M'	10.6Ω/M'	.577	14.66	50	66%	30	98	55	180	
	CM		Chart 3	500	152.4	109.0	49.5	49.2Ω/km	34.8Ω/km									
	CEC:		(Tech Info	1000	304.8	215.0	97.7											
	CM		Section)															
8769	NEC:	19	See	100	30.5	22.9	10.4	15.0Ω/M'	10.6Ω/M'	.603	15.32	50	66%	30	98	55	180	
	CM		Chart 3	500	152.4	123.0	55.8	49.2Ω/km	34.8Ω/km									
	CEC:		(Tech Info	1000	304.8	244.0	110.8											
	CM		Section)															
8773	NEC:	27	See	100	30.5	33.9	15.4	15.0Ω/M'	10.6Ω/M'	.709	18.00	50	66%	30	98	55	180	
	CM		Chart 3	250†	76.2	83.8	38.0	49.2Ω/km	34.8Ω/km									
	CEC:		(Tech Info	500	152.4	163.0	74.0											
	CM		Section)	1000	304.8	341.0	154.8											
9767	NEC:	37	See	500†	152.4	224.0	101.8	15.0Ω/M'	10.6Ω/M'	.800	20.32	50	66%	30	98	55	180	
	CM		Chart 3	1000†	304.8	481.0	218.6	49.2Ω/km	34.8Ω/km									
	CEC:		(Tech Info															
	CM		Section)															

<b>Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket</b>																		
 <p>Z-Fold®</p>	8777SB	NEC:	3	See	U-500†	U-152.4	19.5	8.9	15.0Ω/M'	10.6Ω/M'	.273	6.93	50	66%	30	98	55	180
		<b>new</b> CMG-LS		Chart 3	U-1000	U-304.8	38.0	17.3	49.2Ω/km	34.8Ω/km								
		CEC:		(Tech Info	1000†	304.8	39.0	17.7										
		CMG-LS FT4		Section)														
		Limited Smoke																

DCR = DC Resistance • TC = Tinned Copper See Attenuation, Rise Time and Bit Rate Data for this series on page 5.39.  
 \*Capacitance between conductors.  
 \*\*Capacitance between one conductor and other conductors connected to shield.  
 † Spools are one piece, but length may vary -0 to +20% from length shown.  
 †† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.

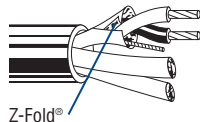
# Individually Shielded

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

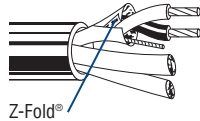
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

**22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire**

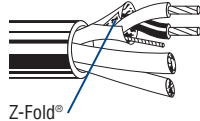
**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

 300V RMS Z-Fold®	<b>82777</b>	NEC:	3	See	U-500†	U-152.4	19.5	8.9	14.7Ω/M'	11.3Ω/M'	.237	6.02	46	62%	35	115	76	249	
		CMP		Chart 3	U-1000	U-304.8	38.0	17.3	48.2Ω/km	37.1Ω/km									
		CEC:		(Tech Info	1000†	304.8	39.0	17.7											
		CMP FT6		Section)															
	<b>82778</b>	NEC:	6	See	1000†	304.8	71.0	32.2	14.7Ω/M'	11.3Ω/M'	.314	7.98	46	62%	35	115	76	249	
CMP			Chart 3					48.2Ω/km	37.1Ω/km										
CEC:			(Tech Info																
CMP FT6			Section)																

**Plenum • FEP Insulation • Red FEP Jacket**

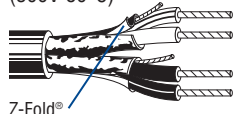
 300V RMS Z-Fold®	<b>88777</b>	NEC:	3	See	100	30.5	6.0	2.7	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220	
		CMP		Chart 3	500†	152.4	19.0	8.6	48.2Ω/km	37.1Ω/km									
		CEC:		(Tech Info	1000†	304.8	42.0	19.1											
		CMP FT6		Section)															
	<b>88778</b>	NEC:	6	See	100	30.5	7.0	3.2	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220	
CMP			Chart 3	500†	152.4	38.5	17.4	48.2Ω/km	37.1Ω/km										
CEC:			(Tech Info	1000†	304.8	75.0	34.1												
CMP FT6			Section)																

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket**

 300V RMS Z-Fold®	<b>87777</b>	NEC:	3	See	500†	152.4	18.0	8.2	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220	
		CMP		Chart 3	1000†	304.8	40.0	18.2	48.2Ω/km	37.1Ω/km									
		CEC:		(Tech Info															
		CMP FT6		Section)															
	<b>87778</b>	NEC:	6	See	500†	152.4	37.5	17.0	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220	
CMP			Chart 3	1000†	304.8	73.0	33.2	48.2Ω/km	37.1Ω/km										
CEC:			(Tech Info																
CMP FT6			Section)																

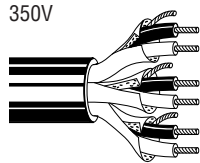
**20 AWG Stranded (7x28) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 22 AWG Stranded TC Drain Wire**

**Semi-rigid PVC Insulation • Overall Chrome PVC Jacket**

 UL AWM Style 2464 (300V 80°C) Z-Fold®	<b>9402</b>	NEC:	2	Red &	U-500	U-152.4	26.0	11.8	—	—	.300	7.62	—	—	55	180	95	312	
		CMG		Black,	1000	304.8	52.0	23.7											
		CEC:		Green &															
		CMG FT4		White															

**20 AWG Stranded (10x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 22 AWG Stranded TC Drain Wire**

**Polypropylene Insulation • Black High-density Polyethylene Jacket**

 350V	<b>9883</b>		3	See	500	152.4	28.5	12.9	6.4Ω/M'	11.2Ω/M'	.340	8.64	50	66%	30	98	55	180	
				Chart 3	1000	304.8	57.0	25.9	21.0Ω/km	36.8Ω/km									
				(Tech Info															
				Section)															
	<b>9886</b>		6	See	500	152.4	56.0	25.4	6.4Ω/M'	11.2Ω/M'	.455	11.56	50	66%	30	98	55	180	
			Chart 3	1000	304.8	108.0	49.0	21.0Ω/km	36.8Ω/km										
			(Tech Info																
			Section)																

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

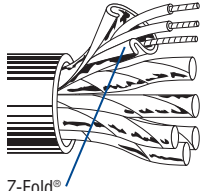
\*\*Capacitance between one conductor and other conductors connected to shield.

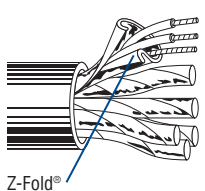
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.



# Individually Shielded

## Audio, Control and Instrumentation Cables

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
<b>20 AWG Stranded (7x28) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire</b>																		
<b>Polypropylene Insulation • Overall Chrome PVC Jacket</b>																		
 <p>Z-Fold®</p>	<b>9873</b>	NEC:	3	See Chart 3	100	30.5	6.6	3.0	10.5Ω/M'	14.0Ω/M'	.341	8.66	50	66%	30	98	55	180
		CM			250	76.2	14.5	6.6	34.4Ω/km	45.9Ω/km								
		CEC:			(Tech Info	500	152.4	32.5	14.8									
		CM			Section)	1000	304.8	58.0	26.3									
	<b>9874</b>	NEC:	6	See Chart 3	100	30.5	10.3	4.7	10.5Ω/M'	11.3Ω/M'	.445	11.30	50	66%	30	98	55	180
		CM			250	76.2	29.0	13.2	34.4Ω/km	37.1Ω/km								
		CEC:			(Tech Info	500	152.4	56.5	25.7									
		CM			Section)	1000	304.8	113.0	51.3									
	<b>9875</b>	NEC:	9	See Chart 3	100	30.5	17.7	8.1	10.5Ω/M'	11.3Ω/M'	.555	14.10	50	66%	30	98	55	180
		CM			500	152.4	97.0	44.0	34.4Ω/km	37.1Ω/km								
CEC:		(Tech Info			1000	304.8	187.0	88.4										
CM		Section)																
<b>9876</b>	NEC:	11	See Chart 3	1000	304.8	220.0	100.0	10.5Ω/M'	11.3Ω/M'	.600	15.24	50	66%	30	98	55	180	
	CM						34.4Ω/km	37.1Ω/km										
	CEC:			(Tech Info														
	CM			Section)														
<b>9877</b>	NEC:	12	See Chart 3	100	30.5	22.1	10.1	10.5Ω/M'	11.3Ω/M'	.617	15.67	50	66%	30	98	55	180	
	CM			500	152.4	119.0	54.1	34.4Ω/km	37.1Ω/km									
	CEC:			(Tech Info	1000	304.8	237.0	107.7										
	CM			Section)														
<b>9879</b>	NEC:	15	See Chart 3	500	152.4	146.0	66.4	10.5Ω/M'	11.3Ω/M'	.689	17.50	50	66%	30	98	55	180	
	CM			1000	304.8	296.0	134.5	34.4Ω/km	37.1Ω/km									
	CEC:			(Tech Info														
	CM			Section)														

<b>18 AWG Stranded (19x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 20 AWG Stranded TC Drain Wire</b>																		
<b>Polypropylene Insulation • Chrome PVC Jacket</b>																		
 <p>Z-Fold®</p>	<b>9773</b>	NEC:	3	See Chart 3	100	30.5	10.8	4.9	6.4Ω/M'	8.3Ω/M'	.404	10.26	50	66%	30	98	55	180
		CM			500	152.4	52.5	23.8	21.0Ω/km	27.2Ω/km								
		CEC:			(Tech Info	1000	304.8	107.0	48.6									
		CM			Section)													
	<b>9774</b>	NEC:	6	See Chart 3	100	30.5	16.1	7.3	6.4Ω/M'	8.3Ω/M'	.560	14.22	50	66%	30	98	55	180
		CM			500	152.4	89.5	40.9	21.0Ω/km	27.2Ω/km								
		CEC:			(Tech Info	1000	304.8	176.0	80.8									
		CM			Section)													
	<b>9775</b>	NEC:	9	See Chart 3	100	30.5	25.8	11.7	6.4Ω/M'	8.3Ω/M'	.655	16.64	50	66%	30	98	55	180
		CM			500	152.4	123.0	55.8	21.0Ω/km	27.2Ω/km								
CEC:		(Tech Info			1000	304.8	241.0	109.4										
CM		Section)																
<b>9776</b>	NEC:	12	See Chart 3	100	30.5	31.6	14.4	6.4Ω/M'	8.3Ω/M'	.735	18.67	50	66%	30	98	55	180	
	CM			500	152.4	151.5	69.0	21.0Ω/km	27.2Ω/km									
	CEC:			(Tech Info	1000	304.8	307.0	139.4										
	CM			Section)														
<b>9777</b>	NEC:	15	See Chart 3	100	30.5	38.8	17.6	6.4Ω/M'	8.3Ω/M'	.819	20.80	50	66%	30	98	55	180	
	CM			500	152.4	194.0	88.1	21.0Ω/km	27.2Ω/km									
	CEC:			(Tech Info	1000	304.8	421.0	191.1										
	CM			Section)														

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

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

See Attenuation, Rise Time and Bit Rate data for this series on page 5.39.