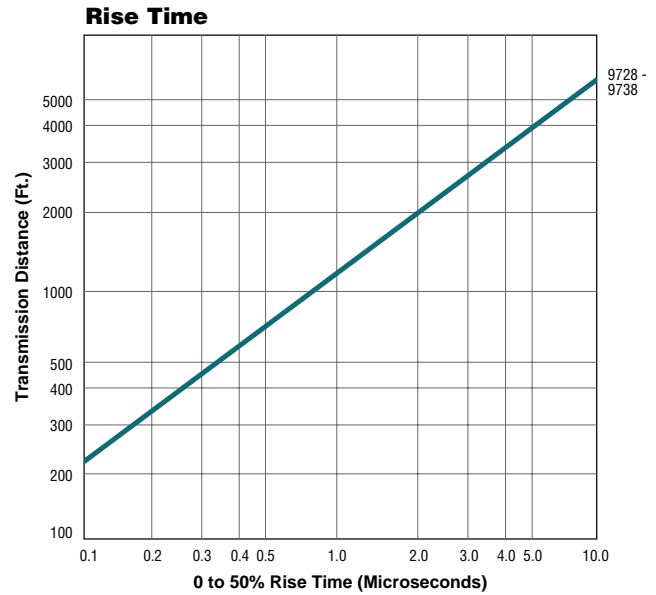
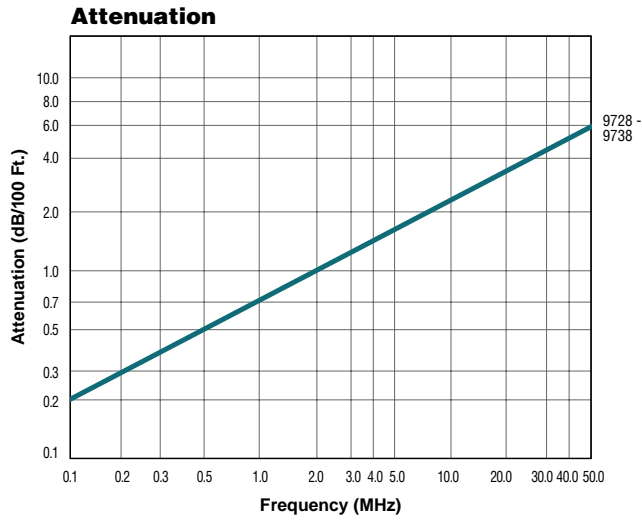
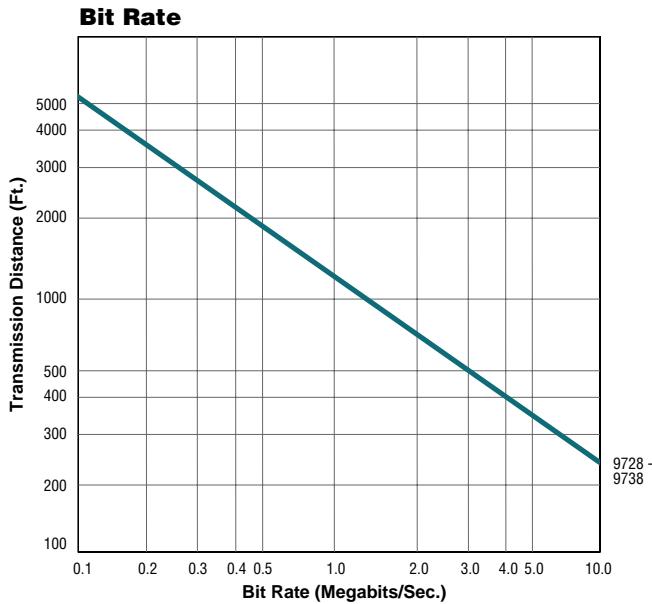


Individually Shielded

Cable Characteristics



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

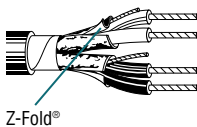


Charts assume 5% peak-to-peak time jitter as determined by eye pattern measurements of pseudorandom NRZ code.



Individually Shielded

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
24 AWG Stranded (7x32) • Tinned Copper • Twisted Pairs • Individually Shielded with 100% Beldfoil® • 24 AWG Stranded TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (300V 60°C)  Z-Fold®	9729	NEC:	2	See	100	30.5	4.3	2.0	24.0Ω/M'	18.0Ω/M'	.317	8.05	100	78%	12.5	41.0	23.2	76.1
		CM		Chart 3	500	152.4	20.5	9.3	78.7Ω/km	59.1Ω/km								
		CEC:		(Tech Info	1000	304.8	39.0	17.7										
		CM		Section)	10000	3048.0	390.0	177.8										
	9730	NEC:	3	See	100	30.5	5.1	2.3	24.0Ω/M'	18.0Ω/M'	.334	8.48	100	78%	12.5	41.0	23.2	76.1
		CM		Chart 3	500	152.4	24.5	11.1	78.7Ω/km	59.1Ω/km								
		CEC:		(Tech Info	1000	304.8	46.0	20.9										
		CM		Section)	10000	3048.0	520.0	236.4										
	9728	NEC:	4	See	100	30.5	6.0	2.7	24.0Ω/M'	18.0Ω/M'	.363	9.22	100	78%	12.5	41.0	23.2	76.1
		CM		Chart 3	500	152.4	28.5	13.0	78.7Ω/km	59.1Ω/km								
CEC:		(Tech Info		1000	304.8	55.0	25.0											
CM		Section)																
9731	NEC:	6	See	100	30.5	11.1	5.0	24.0Ω/M'	18.0Ω/M'	.421	10.69	100	78%	12.5	41.0	23.2	76.1	
	CM		Chart 3	500	152.4	42.0	19.1	78.7Ω/km	59.1Ω/km									
	CEC:		(Tech Info	1000	304.8	83.0	37.7											
	CM		Section)															
9732	NEC:	9	See	100	30.5	11.9	5.4	24.0Ω/M'	18.0Ω/M'	.488	12.40	100	78%	12.5	41.0	23.2	76.1	
	CM		Chart 3	500	152.4	58.0	26.4	78.7Ω/km	59.1Ω/km									
	CEC:		(Tech Info	1000	304.8	108.0	49.1											
	CM		Section)															
9733	NEC:	11	See	500	152.4	75.0	34.1	24.0Ω/M'	18.0Ω/M'	.575	14.61	100	78%	12.5	41.0	23.2	76.1	
	CM		Chart 3					78.7Ω/km	59.1Ω/km									
	CEC:		(Tech Info															
	CM		Section)															
9734	NEC:	12	See	500	152.4	79.5	36.1	24.0Ω/M'	18.0Ω/M'	.575	14.61	100	78%	12.5	41.0	23.2	76.1	
	CM		Chart 3	1000	304.8	154.0	70.0	78.7Ω/km	59.1Ω/km									
	CEC:		(Tech Info															
	CM		Section)															
9735	NEC:	15	See	500	152.4	95.0	43.2	24.0Ω/M'	18.0Ω/M'	.639	16.23	100	78%	12.5	41.0	23.2	76.1	
	CM		Chart 3	1000	304.8	185.0	84.1	78.7Ω/km	59.1Ω/km									
	CEC:		(Tech Info															
	CM		Section)															
9736	NEC:	17	See	500	152.4	103.5	47.0	24.0Ω/M'	18.0Ω/M'	.671	17.04	100	78%	12.5	41.0	23.2	76.1	
	CM		Chart 3	1000	304.8	210.0	95.5	78.7Ω/km	59.1Ω/km									
	CEC:		(Tech Info															
	CM		Section)															
9737	NEC:	19	See	1000	304.8	231.0	105.0	24.0Ω/M'	18.0Ω/M'	.671	17.04	100	78%	12.5	41.0	23.2	76.1	
	CM		Chart 3					78.7Ω/km	59.1Ω/km									
	CEC:		(Tech Info															
	CM		Section)															
9738	NEC:	27	See	1000	304.8	334.0	151.8	24.0Ω/M'	18.0Ω/M'	.797	20.24	100	78%	12.5	41.0	23.2	76.1	
	CM		Chart 3					78.7Ω/km	59.1Ω/km									
	CEC:		(Tech Info															
	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 5.34.

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.



AES/EBU Digital Audio Cable

Multi-Pair Snake Cables
Individually Shielded Pairs



Individually Shielded Pairs

NEC: CM (CEC: CM)

Product Description

24 AWG stranded (7x32) tinned copper conductor. Datalene® insulation. Twisted pairs individually shielded with 100% Beldfoil®. Overall Chrome PVC jacket and 24 AWG stranded tinned copper drain wire.

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.

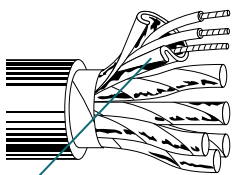
Color Code: See Chart 3 (in Technical Information Section)

Specifications

Nominal OD — Conductor	.024" (.60mm)
Nominal OD — Insulation	.061" (1.55mm)
Approvals	
NEC	CM
CEC	CM
UL Ratings	UL AWM Style 2493
Voltage Rating	300V
Temperature Rating	60°C
Nominal DCR	
Conductor	24.0Ω/M' (78.7Ω/km)
Shield	18.0Ω/M' (59.1Ω/km)
Nominal Impedance	100Ω
Nominal Velocity of Propagation	76%
Nominal Capacitance	
Between Conductors	12.5 pF/Ft. (41.0 pF/m)
Between Conductor/Shield*	23.2 pF/Ft. (76.1 pF/m)

DCR = DC Resistance

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



Z-Fold®

Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm

Individually Shielded Pairs NEC: CM (CEC: CM)

24 AWG							
9729	2	100	30.5	4.4	2.0	.317	8.05
		500	152.4	21.0	9.5		
		1000	304.8	39.0	17.7		
		10000	3048.0	400.0	181.8		

For Plenum version of 9729, see 89729 or 82729.

9730	3	100	30.5	5.1	2.3	.334	8.48
		500	152.4	24.5	11.1		
		1000	304.8	46.0	20.9		
		10000	3048.0	520.0	236.4		

For Plenum version of 9730, see 89730.

9728	4	100	30.5	6.0	2.7	.363	9.22
		500	152.4	28.5	13.0		
		1000	304.8	55.0	25.0		

For Plenum version of 9728, see 89728.

9731	6	100	30.5	11.1	5.0	.421	10.69
		500	152.4	42.0	19.1		
		1000	304.8	83.0	37.7		

For Plenum version of 9731, see 89731.

9732	9	100	30.5	11.9	5.4	.488	12.40
		500	152.4	58.0	26.4		
		1000	304.8	108.0	49.1		

For Plenum version of 9732, see 89732.

9733	11	500	152.4	75.0	34.1	.575	14.61
9734	12	500	152.4	79.5	36.1	.575	14.61
		1000	304.8	154.0	70.0		

For Plenum version of 9734, see 89734.

9735	15	500	152.4	95.0	43.2	.639	16.23
		1000	304.8	185.0	84.1		

9736	17	500	152.4	103.5	47.0	.671	17.04
		1000	304.8	210.0	95.5		

9737	19	1000	304.8	231.0	105.0	.671	17.04
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9738	27	1000	304.8	334.0	151.8	.797	20.24
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Belden® Color Code Charts

Color Code Chart No. 1

Cond. No.	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Gray
11	Pink
12	Tan

18 Gage conductors in cables 8446 through 8449 are Black and White.

Color Code Chart Nos. 2 and 2R — ICEA (Insulated Cable Engineers Association) Standard*

Cond. No.	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black Stripe
8	Red/Black Stripe
9	Green/Black Stripe
10	Orange/Black Stripe
11	Blue/Black Stripe
12	Black/White Stripe
13	Red/White Stripe

Cond. No.	Color
14	Green/White Stripe
15	Blue/White Stripe
16	Black/Red Stripe
17	White/Red Stripe
18	Orange/Red Stripe
19	Blue/Red Stripe
20	Red/Green Stripe
21	Orange/Green Stripe
22	Black/White/Red
23	White/Black/Red
24	Red/Black/White
25	Green/Black/White
26	Orange/Black/White

Cond. No.	Color
27	Blue/Black/White
28	Black/Red/Green
29	White/Red/Green
30	Red/Black/Green
31	Green/Black/Orange
32	Orange/Black/Green
33	Blue/White/Orange
34	Black/White/Orange
35	White/Red/Orange
36	Orange/White/Blue
37	White/Red/Blue
38	Black/White/Green
39	White/Black/Green

Cond. No.	Color
40	Red/White/Green
41	Green/White/Blue
42	Orange/Red/Green
43	Blue/Red/Green
44	Black/White/Blue
45	White/Black/Blue
46	Red/White/Blue
47	Green/Orange/Red
48	Orange/Red/Blue
49	Blue/Orange/Red
50	Black/Orange/Red

* 2 = Spiral Stripe
2R = Ring Band Striping

Color Code Chart No. 3 for Paired Cables (Belden Standard)

Pair No.	Color Combination
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue

Pair No.	Color Combination
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue
16	Green & Yellow
17	Green & Brown
18	Green & Orange
19	White & Blue
20	White & Yellow

Pair No.	Color Combination
21	White & Brown
22	White & Orange
23	Blue & Yellow
24	Blue & Brown
25	Blue & Orange
26	Brown & Yellow
27	Brown & Orange
28	Orange & Yellow
29	Purple & Orange
30	Purple & Red

Pair No.	Color Combination
31	Purple & White
32	Purple & Dark Green
33	Purple & Light Blue
34	Purple & Yellow
35	Purple & Brown
36	Purple & Black
37	Gray & White

Color Code Chart No. 4 for Paired Cables

Pair No.	Color Combination
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Gray

Pair No.	Color Combination
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Gray

Pair No.	Color Combination
11	Black & Blue
12	Black & Orange
13	Black & Green
14	Black & Brown
15	Black & Gray

Pair No.	Color Combination
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Gray

Pair No.	Color Combination
21	Violet & Blue
22	Violet & Orange
23	Violet & Green
24	Violet & Brown
25	Violet & Gray

Color Code Chart No. 5 for Paired Cables (Western Electric Standard)

Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Gray Stripe & Gray/White Stripe

Pair No.	Color Combination
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Gray Stripe & Gray/Red Stripe

Pair No.	Color Combination
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Gray Stripe & Gray/Black Stripe

Pair No.	Color Combination
16	Yellow/Blue Stripe & Blue/Yellow Stripe
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Gray Stripe & Gray/Yellow Stripe

Pair No.	Color Combination
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe
25	Purple/Gray Stripe & Gray/Purple Stripe

