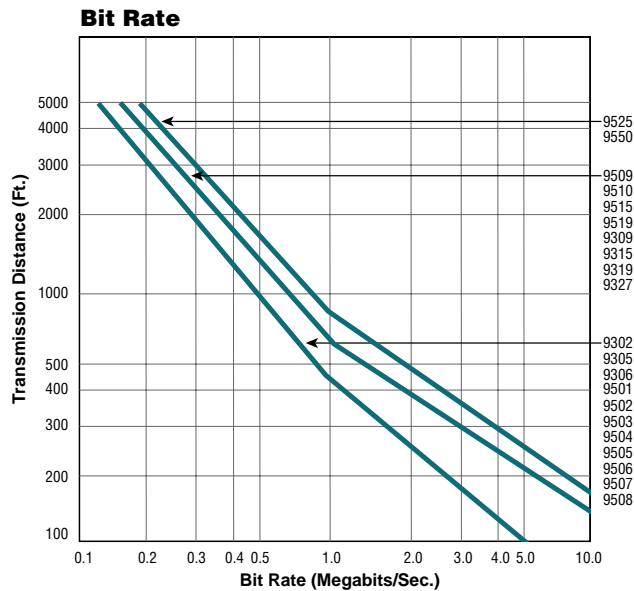
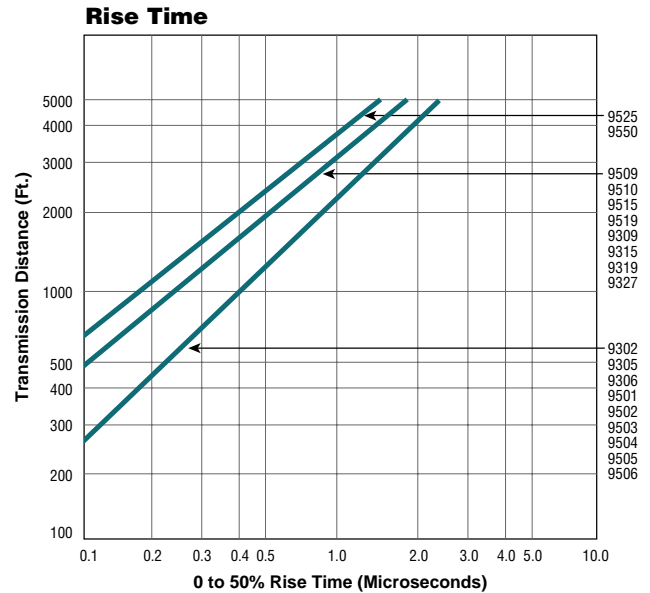
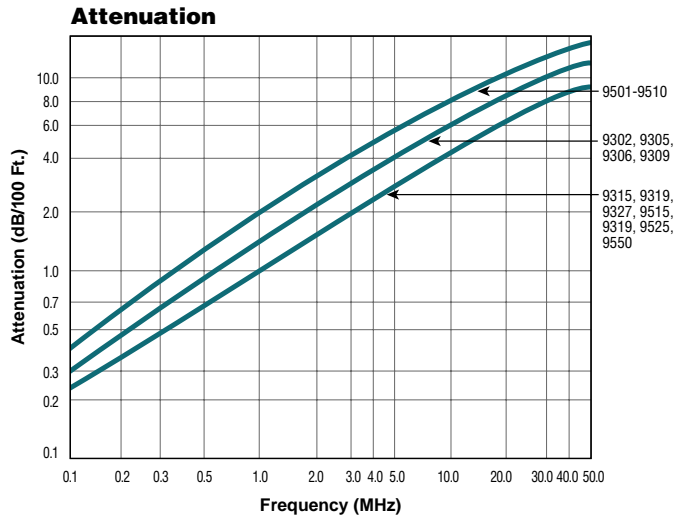


Overall Beldfoil® Shield

Cable Characteristics



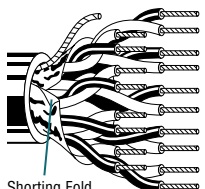
Cables are terminated in their characteristic impedance. Signal source electrical characteristics: 50 ohms and 10% to 90% rise time less than 5 nanoseconds.

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



Overall Beldfoil® Shield

Computer Cables for EIA RS-232 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 • Overall 100% Beldfoil Shield • 24 AWG Stranded TC Drain Wire (continued)																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
 <p>UL AWM Style 2464 (300V 80°C) CSA AWM I A</p> <p>Shorting Fold</p>	9506	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.8 2.6 23.5 10.7 47.0 21.4	2.6 11.8 10.9 21.4 47.0 21.4	24.0Ω/M' 78.7Ω/km	16.0Ω/M' 52.5Ω/km	.289 7.34	75	60%	30	98	50	164	
																	For Plenum version of 9506, see 82506.	
	9507	NEC: CMG CEC: CMG FT4	7	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	6.3 2.9 26.0 11.8 51.0 23.2	2.9 11.8 12.0 23.2 52.0 23.6	24.0Ω/M' 78.7Ω/km	16.5Ω/M' 54.1Ω/km	.294 7.47	75	60%	30	98	50	164	
	9508	NEC: CMG CEC: CMG FT4	8	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	6.4 2.9 30.0 13.6 61.0 27.7	2.9 11.8 13.6 27.7 61.0 27.7	24.0Ω/M' 78.7Ω/km	16.5Ω/M' 54.1Ω/km	.324 8.23	75	60%	30	98	50	164	
	9509	NEC: CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	7.0 3.2 33.0 15.0 69.0 31.4	3.2 15.0 31.4 69.0 31.4 69.0	24.0Ω/M' 78.7Ω/km	16.5Ω/M' 54.1Ω/km	.334 8.48	75	60%	30	98	50	164	
																		For Plenum version of 9509, see 82509.
	9510	NEC: CMG CEC: CMG FT4	10	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	7.6 3.5 39.0 17.7 75.0 34.1	3.5 17.7 34.1 75.0 34.1 75.0	24.0Ω/M' 78.7Ω/km	16.5Ω/M' 54.1Ω/km	.368 9.34	75	60%	30	98	50	164	
	9515	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	10.4 4.7 52.0 23.6 102.0 46.4	4.7 23.6 46.4 102.0 46.4 102.0	24.0Ω/M' 78.7Ω/km	16.5Ω/M' 54.1Ω/km	.417 10.6	75	60%	30	98	50	164	
	9519	NEC: CMG CEC: CMG FT4	19	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	12.9 5.9 61.5 28.0 122.0 55.5	5.9 28.0 55.5 122.0 55.5 122.0	24.0Ω/M' 78.7Ω/km	16.5Ω/M' 54.1Ω/km	.448 11.4	75	60%	30	98	50	164	
	9525	NEC: CMG CEC: CMG FT4	25	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	16.2 7.4 80.5 36.6 156.0 70.9	7.4 36.6 70.9 156.0 70.9 156.0	24.0Ω/M' 78.7Ω/km	16.5Ω/M' 54.1Ω/km	.503 12.8	75	60%	30	98	50	164	
9550	NEC: CMG CEC: CMG FT4	50	Request Technical Bulletin T/8-4	100 500† 1000†	30.5 152.4 304.8	30.9 153.5 311.0	14.0 69.8 141.4	24.0Ω/M' 78.7Ω/km	15.2Ω/M' 49.9Ω/km	.708 18.0	75	60%	30	98	50	164		

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 -0% to +20% from length shown.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.10.



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

