

# Overall Beldfoil® Shield

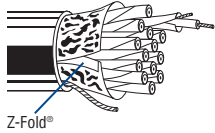
## Computer Cable for Synchronous EIA Interface

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

**28 AWG** Stranded (7x36) TC Conductors • Individually and Overall Beldfoil Shielded (100% Coverage) • 28 AWG Stranded TC Drain Wires

**Datalene® Insulation • Gray PVC Jacket**

UL AWM Style 2384 (30V 60°C)	<b>9868</b>	NEC: CM	14	1000	304.8	71.0	32.2	.394	10.01	64.9Ω/M' 212.9Ω/km	Individual: 44.0Ω/M' 144.4Ω/km  Overall: 18.2Ω/M' 59.7Ω/km	65	78%	—	—	20.5	67.3
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Individually Beldfoil shielded conductors are isolated from adjacent shields and each has a 28 AWG stranded TC drain wire.

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.  
\*\*Nominal capacitance conductor to conductor and shield.

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

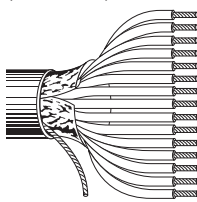
### Color Codes

Cond. No.	Color
1	Black w/ Blue Shield
2	Brown w/ Blue Shield
3	Red w/ Blue Shield
4	Orange w/ Blue Shield
5	Blue w/ Blue Shield
6	Yellow w/ Blue Shield
7	Natural w/ Blue Shield
8	Black w/ Red Shield
9	Brown w/ Red Shield
10	Red w/ Red Shield
11	Orange w/ Red Shield
12	Blue w/ Red Shield
13	Yellow w/ Red Shield
14	Natural w/ Red Shield



# Overall Beldfoil® Shield

## Computer Cables for EIA RS-232 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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>24 AWG Stranded (7x32) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire</b>																					
<b>Semi-rigid PVC Insulation • Chrome PVC Jacket</b>																					
 <p>UL AWM Style 2464 (300V 80°C)</p>	<b>9533</b>	NEC:	3	See	100	30.5	2.7	1.2	.010	.25	.032	.81	.162	4.11	33	108	65	213			
		CMG:		Chart 1	U-500	U-152.4	9.5	4.3													
		CEC:		(Tech Info Section)	500	152.4	9.0	4.1													
		CMG FT4			U-1000	U-304.8	18.0	8.2													
						1000	304.8	18.0	8.2												
		<b>9534</b>	NEC:	4	See	100	30.5	3.0	1.4	.010	.25	.032	.81	.184	4.67	33	108	65	213		
	CMG:		Chart 1		U-500	U-152.4	11.0	5.0													
	CEC:		(Tech Info Section)		500	152.4	11.5	5.2													
	CMG FT4				U-1000	U-304.8	21.0	9.5													
						1000	304.8	22.0	10.0												
		<b>9535</b>	NEC:	5	See	100	30.5	3.2	1.5	.010	.25	.032	.81	.189	4.80	33	108	65	213		
	CMG:		Chart 1		U-500	U-152.4	12.0	5.4													
	CEC:		(Tech Info Section)		500	152.4	11.0	5.0													
	CMG FT4				U-1000	U-304.8	23.0	10.4													
						1000	304.8	22.0	10.0												
		<b>9536</b>	NEC:	6	See	100	30.5	3.6	1.6	.010	.25	.032	.81	.209	5.31	33	108	65	213		
CMG:	Chart 1		U-500		U-152.4	14.5	6.6														
CEC:	(Tech Info Section)		500		152.4	12.5	5.7														
CMG FT4			U-1000		U-304.8	27.0	12.3														
					1000	304.8	29.0	13.2													
	<b>9537</b>	NEC:	7	See	100	30.5	3.7	1.7	.010	.25	.032	.81	.209	5.31	33	108	65	213			
CMG:		Chart 1		U-500	U-152.4	15.0	6.8														
CEC:		(Tech Info Section)		500	152.4	13.5	6.2														
CMG FT4				U-1000	U-304.8	29.0	13.2														
					1000	304.8	30.0	13.7													
	<b>9538</b>	NEC:	8	See	100	30.5	3.8	1.7	.010	.25	.032	.81	.224	5.69	33	108	65	213			
CMG:		Chart 1		U-500	U-152.4	17.0	7.7														
CEC:		(Tech Info Section)		500	152.4	15.0	6.8														
CMG FT4				U-1000	U-304.8	32.0	14.6														
					1000	304.8	34.0	15.4													
	<b>9539</b>	NEC:	9	See	100	30.5	4.2	1.9	.010	.25	.032	.81	.244	6.20	30	98	55	180			
CMG:		Chart 1		U-500	U-152.4	20.0	9.1														
CEC:		(Tech Info Section)		500	152.4	17.0	7.8														
CMG FT4				U-1000	U-304.8	37.0	16.9														
					1000	304.8	38.0	17.3													
	<b>9540</b>	NEC:	10	See	100	30.5	4.3	2.0	.010	.25	.032	.81	.244	6.20	30	98	55	180			
CMG:		Chart 1		U-500	U-152.4	19.5	8.9														
CEC:		(Tech Info Section)		500	152.4	18.0	8.2														
CMG FT4				U-1000	U-304.8	38.0	17.2														
					1000	304.8	36.0	16.4													
	<b>9541</b>	NEC:	15	See	100	30.5	5.9	2.7	.010	.25	.032	.81	.284	7.21	30	98	55	180			
CMG:		Chart 2R		U-500	U-152.4	27.5	12.5														
CEC:		(Tech Info Section)		500	152.4	28.0	12.7														
CMG FT4				U-1000	U-304.8	54.0	24.5														
					1000	304.8	56.0	25.4													
	<b>9542</b>	NEC:	20	See	100	30.5	7.3	3.3	.010	.25	.032	.81	.314	7.98	30	98	55	180			
CMG:		Chart 2R		U-500	U-152.4	34.0	15.4														
CEC:		(Tech Info Section)		500	152.4	35.5	16.1														
CMG FT4				1000	304.8	69.0	31.3														
	<b>9543</b>	NEC:	25	See	100	30.5	8.7	4.0	.010	.25	.032	.81	.339	8.61	30	98	55	180			
CMG:		Chart 2R		500	152.4	44.0	20.0														
CEC:		(Tech Info Section)		1000	304.8	86.0	39.0														
CMG FT4																					
	<b>9544</b>	NEC:	30	See	100	30.5	10.3	4.7	.010	.25	.040	1.02	.380	9.65	30	98	55	180			
CMG:		Chart 2R		500	152.4	51.5	23.4														
CEC:		(Tech Info Section)		1000	304.8	102.0	46.3														
CMG FT4																					
	<b>9545</b>	NEC:	40	See	100	30.5	13.5	6.1	.010	.25	.040	1.02	.430	10.92	30	98	55	180			
CMG:		Chart 2R		500	152.4	65.0	29.5														
CEC:		(Tech Info Section)		1000	304.8	130.0	59.0														
CMG FT4																					
	<b>9546</b>	NEC:	50	See	100	30.5	16.4	7.4	.010	.25	.045	1.14	.490	12.45	30	98	55	180			
CMG:		Chart 2R		500	152.4	81.5	37.0														
CEC:		(Tech Info Section)		1000	304.8	168.0	76.3														
CMG FT4																					

TC = Tinned Copper

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



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

# Overall Beldfoil® Shield

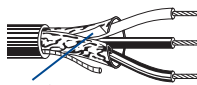
## Audio, Control and Instrumentation Cables

### Non-Plenum

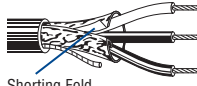
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	pF/ Ft.	pF/ m	pF/ Ft.	pF/ m

**22 AWG** Stranded (7x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire

**Polypropylene Insulation • Brown PVC Jacket**

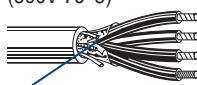
 <p>Z-Fold®</p>	<b>300V RMS</b> <b>9770</b>	NEC:	3	Black,	U-500	U-152.4	9.0	4.1	.008	.20	.020	.51	.145	3.68	32	105	60	197
		CM:		Red,	500	152.4	9.0	4.1										
		CEC:		White	U-1000	U-304.8	18.0	8.2										
		CM		1000	304.8	17.0	7.7											

**Polyethylene Insulation • Chrome PVC Jacket**

 <p>Shorting Fold</p>	<b>UL AWM Style 2093 (300V 60°C)</b> <b>8771</b>	NEC:	3	Black,	250	76.2	6.3	2.8	.016	.41	.033	.84	.199	5.05	23	75	41	134
		CM:		Red,	U-500	U-152.4	12.0	5.5										
		CEC:		Clear	500	152.4	12.0	5.5										
		CM		U-1000	U-304.8	23.0	10.4											
		1000		304.8	24.0	10.9												
10000†	3048.0	240.0	109.1															

**22 AWG** Stranded (19x34) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 23 and 25 AWG Drain Wires††

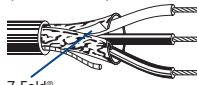
**Polyethylene Insulation • White PVC Jacket**

 <p>Z-Fold®</p>	<b>UL AWM Style 2094 (300V 75°C)</b> <b>8729</b>	NEC:	4	Black,	U-500	U-152.4	23.0	10.5	.016	.41	.051	1.30	.257	6.53	22	72	42	138
		CM, CL3		Red,	500	152.4	21.5	9.8										
		CEC:		Green,	U-1000	U-304.8	45.0	20.4										
		CM		Clear	1000	304.8	47.0	21.4										

†† 8729 has three 23 AWG solid and one 25 AWG stranded tinned copper-coated steel drain wires.

**20 AWG** Stranded (7x28) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

**Polyethylene Insulation • Chrome PVC Jacket**

 <p>Z-Fold®</p>	<b>UL AWM Style 2093 (300V 60°C)</b> <b>8772</b>	NEC:	3	Black,	U-500	U-152.4	16.0	7.3	.016	.41	.033	.84	.218	5.54	27	89	51	167
		CM		Red,	500	152.4	16.0	7.3										
		CEC:		Clear	U-1000	U-304.8	31.0	14.1										
		CM		1000	304.8	32.0	14.5											

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Nominal capacitance conductor to conductor and shield.

†Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

# Overall Beldfoil® Shield

## Audio, Control and Instrumentation Cables

### Plenum-Rated and Non-Plenum

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

**18 AWG** Stranded (16x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

**Polyethylene Insulation • Chrome PVC Jacket**

UL AWM Style 2093 (300V 60°C)	<b>8770</b>	NEC: CM	3	Black, Red, Clear	U-500	U-152.4	20.0	9.1	.018	.46	.033	.84	.246	6.25	24	79	48	157
		CEC: CM			U-1000	U-304.8	38.0	17.2										
					1000	304.8	40.0	18.2										
					10000††	3048.0	430.0	195.5										



Shorting Fold

For Plenum version of 8770, see 8770.

**18 AWG** Stranded (19x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

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

UL AWM Style 2464 (300V 80°C)	<b>9418</b>	NEC: CMG	4	Red, Green, Black, White	100	30.5	5.6	2.6	.010	.25	.035	.89	.245	6.22	70	230	120	394
		CEC: CMG FT4			U-500	U-152.4	18.0	8.2										
					U-1000	U-304.8	35.0	16.0										
					1000	304.8	52.0	23.7										
					10000††	3048.0	510.0	231.3										



Z-Fold®

For Plenum versions of 9418, see 89418 or 82418.

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

(-70°C to +200°C)	<b>88770</b>	NEC: CMP	3	Black, White, Red	500	152.4	16.0	7.3	.007	.18	.014	.36	.161	4.09	54	177	96	315
		CEC: CMP FT6			1000	304.8	32.0	14.6										



Suitable for Outdoor and Direct Burial applications. Chemical Resistance: Gasoline and Oil.

(-70°C to +200°C)	<b>89418</b>	NEC: CMP	4	Black, White, Red, Green	100	30.5	5.5	2.5	.007	.18	.014	.36	.177	4.50	30	98	57	187
		CEC: CMP FT6			500†	152.4	18.0	8.2										
					1000†	304.8	36.0	16.4										



Suitable for Outdoor and Direct Burial applications. Chemical Resistance: Gasoline and Oil.

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

(-70°C to +200°C)	<b>82418</b>	NEC: CMP	4	Black, White, Red, Green	U-1000▲	U-304.8	36.0	16.4	.007	.18	.014	.36	.176	4.47	30	98	63	207
		CEC: CMP FT6			1000†	304.8	38.0	17.2										



**16 AWG** Stranded (19x29) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 18 AWG Stranded TC Drain Wire

**Polyethylene Insulation • Chrome PVC Jacket**

UL AWM Style 2107 (300V 60°C)	<b>8618</b>	NEC: CL3	3	Black, Red, Clear	U-500	U-152.4	31.0	14.1	.031	.79	.031	.79	.327	8.3	26	85	50	164
					500	152.4	32.5	14.8										
					1000	304.8	66.0	30.1										



Z-Fold®

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.

†† Final put-up may vary -10% to +20%. May contain 2 pieces. Min. length 1500 ft.

▲ Final put-up may vary 0 to -10%.