

Multi-Conductor Cables

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Introduction

The cables listed in this section are specially designed for data transmission, communications, computers, sound, control and instrumentation, among other applications. There are many options available that combine different jacketing materials, dimensions, insulation materials, gage sizes, and shielding configurations. Almost all cables cataloged here are available from stock or off-the-shelf from distributors. For custom applications with special technical requirements, please contact our support at www.innovcable.com.br/contato.htm. Other multiconductor cable features and/or benefits include:

- UnRoll® cable dispenser (available only for cables with a letter “U” preceding the standard length) - a special packaging system that eliminates the need for dereeling equipment, saving labor, time and costs;
- Signal integrity protection, by reducing crosstalk (a disturbance caused by the electric or magnetic fields of one signal affecting a signal in an adjacent circuit), hum and noise.

Comment:

In the table's headers of this section, when referring to nominal capacitance, please consider the following definitions:

* Capacitance between conductors.

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

Color Code

This section refers to the following color code charts:

Chart 1

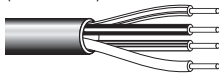
Cond. No.	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Gray
11	Pink
12	Tan

Charts 2 (Spiral Stripe) and 2R (Ring Band Striping)

Cond. No.	Color	Cond. No.	Color	Cond. No.	Color	Cond. No.	Color
1	Black	14	Green/White Stripe	27	Blue/Black/White	40	Red/White/Green
2	White	15	Blue/White Stripe	28	Black/Red/Green	41	Green/White/Blue
3	Red	16	Black/Red Stripe	29	White/Red/Green	42	Orange/Red/Green
4	Green	17	White/Red Stripe	30	Red/Black/Green	43	Blue/Red/Green
5	Orange	18	Orange/Red Stripe	31	Green/Black/Orange	44	Black/White/Blue
6	Blue	19	Blue/Red Stripe	32	Orange/Black/Green	45	White/Black/Blue
7	White/Black Stripe	20	Red/Green Stripe	33	Blue/White/Orange	46	Red/White/Blue
8	Red/Black Stripe	21	Orange/Green Stripe	34	Black/White/Orange	47	Green/Orange/Red
9	Green/Black Stripe	22	Black/White/Red	35	White/Red/Orange	48	Orange/Red/Blue
10	Orange/Black Stripe	23	White/Black/Red	36	Orange/White/Blue	49	Blue/Orange/Red
11	Blue/Black Stripe	24	Red/Black/White	37	White/Red/Blue	50	Black/Orange/Red
12	Black/White Stripe	25	Green/Black/White	38	Black/White/Green		
13	Red/White	26	Orange/Black/White	39	White/Black/Green		

Unshielded

Audio, Control and Instrumentation Cables Non-Plenum

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	*	*	**	**
														pF/m	pF/Ft.	pF/m	pF/Ft.
22 AWG Solid Conductors • Bare Copper • Conductors Cabled																	
Polyethylene Insulation • Rose Gray PVC Jacket																	
	100001	2	Red, Green	U-152.4	U-500	4.5	10.0	.46	.018	.56	.022	4.27	.168				
				U-304.8	U-1000	8.6	19.0										
				304.8	1000	9.5	21.0										
	100002	3	Green, Red,	U-304.8	U-1000	10.0	22.0	.46	.018	.56	.022	4.52	.178				
				304.8	1000	10.5	23.0										
	100003	4	Green, Red, Yellow, Black	U-152.4	U-500	6.4	14.0	.46	.018	.64	.025	5.08	.200				
				U-304.8	U-1000	12.3	27.0										
				304.8	1000	12.3	27.0										
22 AWG Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled																	
PVC Insulation • Chrome PVC Jacket																	
	100004	2	Black, Red	30.5	100	1.1	2.4	.38	.015	.64	.025	4.32	.170				
				U-152.4	U-500	3.4	7.5										
				152.4	500	3.4	7.5										
				U-304.8	U-1000	6.8	15.0										
				304.8	1000	6.8	15.0										
				3048.0	10000	68.2	150.0										
	100005	3	Black, Red, Green	30.5	100	1.3	2.8	.25	.010	.81	.032	4.37	.172				
				U-152.4	U-500	4.3	9.5										
				152.4	500	4.3	9.5										
				U-304.8	U-1000	8.2	18.0										
				304.8	1000	8.2	18.0										
	100006	4	See Chart 1	30.5	100	1.5	3.2	.25	.010	.81	.032	4.70	.185				
				U-152.4	U-500	5.2	11.5										
				152.4	500	5.2	11.5										
				U-304.8	U-1000	10.0	22.0										
				304.8	1000	10.5	23.0										
	100007	5	See Chart 1	30.5	100	1.6	3.5	26.0	.010	.81	.032	4.93	.194				
				U-152.4	U-500	6.1	13.5										
				152.4	500	6.1	13.5										
				U-304.8	U-1000	11.8	26.0										
				304.8	1000	11.8	26.0										
	100008	7	See Chart 1	U-152.4	U-500	7.5	16.5	.25	.010	.81	.032	5.44	.214				
				152.4	500	7.7	17.0										
				U-304.8	U-1000	15.0	33.0										
				304.8	1000	15.0	33.0										
	100009	8	See Chart 1	30.5	100	2.1	4.7	.25	.010	.81	.032	5.82	.229				
				U-152.4	U-500	8.4	18.5										
				152.4	500	8.6	19.0										
				U-304.8	U-1000	16.8	37.0										
				304.8	1000	16.8	37.0										

Unshielded

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

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/ m	* pF/ Ft.	** pF/ m	** pF/ Ft.

22 AWG Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled (continued)

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2576
(150V 80°C)



100010	9	See Chart 1	30.5	100	2.4	5.2	.25	.010	.81	.032	6.20	.244				
			U-152.4	U-500	9.8	21.5										
			152.4	500	9.8	21.5										
			U-304.8	U-1000	19.1	42.0										
			304.8	1000	19.1	42.0										
100011	10	See Chart 1	30.5	100	2.6	5.7	.25	.010	.81	.032	6.71	.264				
			U-152.4	U-500	10.2	22.5										
			152.4	500	10.5	23.0										
			U-304.8	U-1000	20.5	45.0										
			304.8	1000	20.9	46.0										
100012	12	See Chart 1	30.5	100	2.9	6.3	.25	.010	.81	.032	6.91	.272				
			U-152.4	U-500	11.8	26.0										
			152.4	500	11.8	26.0										
			U-304.8	U-1000	23.2	51.0										
			304.8	1000	23.6	52.0										
100013	15	See Chart 2R	30.5	100	3.3	7.3	.25	.010	1.02	.040	8.00	.315				
			152.4	500	15.7	34.5										
			304.8	1000	32.7	72.0										
100014	20	See Chart 2R	30.5	100	4.1	9.1	.25	.010	1.02	.040	8.76	.345				
			152.4	500	22.0	48.5										
			304.8	1000	39.5	87.0										
100015	25	See Chart 2R	30.5	100	5.0	11.1	.25	.010	1.02	.040	9.83	.387				
			152.4	500	25.0	55.0										
			304.8	1000	49.5	109.0										
100016	30	See Chart 2R	30.5	100	5.7	12.5	.25	.010	1.02	.040	10.16	.400				
			152.4	500	28.4	62.5										
			304.8	1000	56.4	124.0										
100017	40	See Chart 2R	30.5	100	7.6	16.7	.25	.010	1.02	.040	11.56	.455				
			152.4	500	37.7	83.0										
			304.8	1000	73.2	161.0										
100018	50	See Chart 2R	152.4	500	45.7	100.5	.25	.010	1.14	.045	12.70	.500				
			304.8	1000	93.6	206.0										

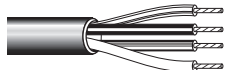
Plenum • FEP Insulation • Red FEP Jacket

300V RMS, Non-conduit



100019*	2	Black, Red	30.5	100	1.0	2.3	.15	.006	.30	.012	2.59	.102				
			152.4	500†	2.5	5.5										
			304.8	1000†	4.5	10.0										

Non-conduit



100020	4	Black, White, Red, Green	30.5	100	1.4	3.0	.15	.006	.25	.010	3.07	.121				
			152.4	500†	4.1	9.0										
			304.8	1000†	7.3	16.0										

Suitable for Outdoor and Direct Burial applications.

* Twisted Pair

† Spools and/or UnRoll® cartons are one piece, but length may vary $\pm 10\%$ for spools and $\pm 5\%$ for UnRoll from length shown.

Unshielded

Audio, Control and Instrumentation Cables

Plenum-Rated and Non-Plenum

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

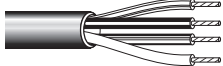
22 AWG Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled (continued)

Plenum • FEP Insulation • Natural Enerflame® Jacket

300V RMS, Non-conduit	100021*	2	Black, Red	U-304.8 304.8	U-1000† 1000†	37.7 38.2	83.0 84.0	.15	.006	.36	.014	2.84	.112				
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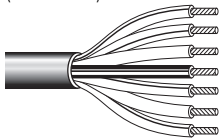
Non-conduit	100022	4	Black, White, Red, Green	U-152.4 U-304.8 304.8	U-500† U-1000† 1000†	3.9 7.7 7.7	8.5 17.0 17.0	.15	.006	.38	.015	3.40	.134				
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20 AWG Stranded Conductors (7x28) • Tinned Copper • Conductors Cabled

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C)	100023	4	See Chart 1	30.5 U-152.4 152.4 U-304.8 304.8	100 U-500 500 U-1000 1000	1.8 7.5 7.5 14.5 14.5	4.0 16.5 16.5 32.0 32.0	.33	.013	.81	.032	5.51	.217				
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100024	5	See Chart 1	30.5 U-152.4 152.4 U-304.8 304.8	100 U-500 500 U-1000 1000	2.2 8.9 9.1 17.7 18.2	4.9 19.5 20.0 39.0 40.0		.33	.013	.81	.032	6.07	.239				
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100025	7	See Chart 1	30.5 U-152.4 152.4 U-304.8 304.8	100 U-500 500 U-1000 1000	2.8 12.0 12.3 23.6 24.1	6.2 26.5 27.0 52.0 53.0		.33	.013	.81	.032	6.60	.260				
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100026	9	See Chart 1	30.5 152.4 304.8	100 500 1000	3.2 15.9 30.5	7.1 35.0 67.0		.33	.013	.89	.035	8.05	.317				
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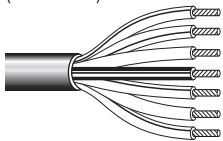
100027	12	See Chart 1	30.5 152.4 304.8	100 500 1000	4.0 19.8 38.6	8.9 43.5 85.0		.33	.013	.89	.035	8.58	.338				
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100028	15	See Chart 2R	30.5 152.4 304.8	100 500 1000	5.5 25.9 50.5	12.0 57.0 111.0		.33	.013	1.02	.040	9.88	.389				
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18 AWG Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2598 (300V 60°C)	100029	4	See Chart 1	30.5 76.2 U-152.4 152.4 U-304.8 304.8	100 250 U-500 500 U-1000 1000	2.5 5.5 10.7 10.9 21.4 21.8	5.6 12.0 23.5 24.0 47.0 48.0	.43	.017	.81	.032	6.53	.257				
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For Plenum versions of 100029 see 100037, 100038, 100164 or 100165

100030	5	See Chart 1	30.5 U-152.4 152.4 U-304.8 304.8	100 U-500 500 U-1000 1000	3.2 13.6 13.6 26.8 27.3	7.1 30.0 30.0 59.0 60.0		.43	.017	.84	.033	7.16	.282				
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* Twisted Pair

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

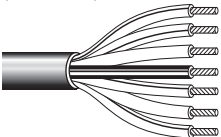
Unshielded

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

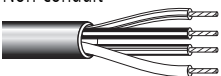
Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

18 AWG Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled (continued)

PVC Insulation • Chrome PVC Jacket

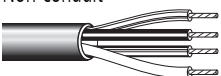
	UL AWM Style 2598 (300V 60°C)	100031	7	See Chart 1	30.5 76.2 152.4 304.8	100 250 500 1000	3.8 9.2 18.0 35.9	8.3 20.3 39.5 79.0	.43	.017	.94	.037	7.98	.314				
		100032	9	See Chart 1	30.5 76.2 152.4 304.8	100 250 500 1000	4.8 11.8 23.2 47.7	10.5 26.0 51.0 105.0	.43	.017	.94	.037	9.25	.364				
		100033	12	See Chart 2R	30.5 76.2 152.4 304.8	100 250 500 1000	6.0 14.8 30.1 59.5	13.2 32.5 66.0 131.0	.43	.017	1.02	.040	10.46	.412				
		100034	15	See Chart 2R	30.5 76.2 152.4 304.8	100 250 500 1000	8.2 18.1 40.7 79.5	18.1 45.9 89.5 175.0	.43	.017	1.14	.045	12.70	.500				
		100035	19	See Chart 2R	30.5 76.2 152.4 304.8	100 250 500 1000	9.3 20.9 45.9 90.0	20.9 45.9 90.0 198.0	.43	.017	1.14	.045	12.45	.490				
		100036	25	See Chart 2R	30.5 76.2 152.4 304.8	100 250 500 1000	12.8 28.1 63.4 125.9	28.1 63.4 139.5 277.0	.43	.017	1.52	.060	15.54	.612				

Plenum • FEP Insulation • Red FEP Jacket

	Non-conduit	100037	4	Black, White, Red, Green	152.4 304.8	500 [†] 1000 [†]	7.5 14.1	16.5 31.0	.18	.007	.23	.009	4.09	.161				
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Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Enerflame® Jacket

	Non-conduit	100038	4	Black, White, Red, Green	U-304.8 304.8	U-1000 [†] 1000 [†]	14.1 14.1	31.0 31.0	.18	.007	.36	.014	4.32	.170				
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16 AWG Stranded Conductors (19x29) • Tinned Copper • Conductors Cabled

PVC Insulation • Cabled Wire (No Jacket)

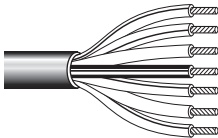
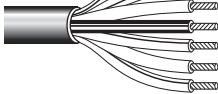
	UL AWM Style 1007 (300V 80°C) VW-1	100039	3	Orange, Black, Orange w/ Black Stripe	304.8	1000	19.1	42.0	.69	.027			6.17	.243				
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[†] Spools and/or UnRoll® cartons are one piece, but length may vary $\pm 10\%$ for spools and $\pm 5\%$ for UnRoll from length shown.

Unshielded

Audio, Control and Instrumentation Cables

Non-Plenum

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	pF/ m	pF/ Ft.	pF/ m	pF/ Ft.
16 AWG Stranded Conductors (19x29) • Tinned Copper • Conductors Cabled (continued)																	
PVC Insulation • Chrome PVC Jacket																	
600V RMS 80°C VW-1 	100040	4	See Chart 2	30.5	100	4.0	8.9	.79	.031	1.07	.042	9.55	.376				
				152.4	500	20.0	44.0										
				304.8	1000	40.0	88.0										
	100041	5	See Chart 2	30.5	100	5.0	11.0	.79	.031	1.07	.042	10.44	.411				
				152.4	500	24.3	53.5										
				304.8	1000	49.5	109.0										
	100042	7	See Chart 2R	30.5	100	6.8	14.9	.79	.031	1.14	.045	11.63	.458				
				152.4	500	33.4	73.5										
				304.8	1000	65.0	143.0										
	100043	8	See Chart 2R	30.5	100	12.5	27.5	.79	.031	1.14	.045	12.60	.496				
				152.4	500	62.0	136.5										
				304.8	1000	122.3	269.0										
	100044	9	See Chart 2R	30.5	100	8.7	19.0	.79	.031	1.14	.045	13.54	.533				
				152.4	500	42.5	93.5										
				304.8	1000	81.8	180.0										
	100045	12	See Chart 2R	30.5	100	12.3	27.0	.79	.031	1.52	.060	15.93	.627				
				152.4	500	57.3	126.0										
				304.8	1000	114.1	251.0										
	100046	15	See Chart 2R	30.5	100	14.7	32.4	.79	.031	1.52	.060	17.63	.694				
				152.4	500	70.5	155.0										
				304.8	1000	142.7	314.0										
	100047	19	See Chart 2R	38.5	100	17.5	38.5	.79	.031	1.65	.065	18.80	.740				
				178.5	500	81.1	178.5										
				361.0	1000	164.1	361.0										
	100048	25	See Chart 2R	30.5	100	22.3	49.0	.79	.031	1.65	.065	22.33	.879				
				152.4	500	107.3	236.0										
				304.8	1000	218.2	480.0										
14 AWG Stranded Conductors (19x27) • Tinned Copper • Conductors Cabled																	
PVC Insulation • Chrome PVC Jacket																	
600V RMS 80°C VW-1 	100049	4	See Chart 2	30.5	100	7.1	15.5	1.14	.045	1.14	.045	12.45	.490				
				152.4	500	34.1	75.0										
				304.8	1000	65.9	145.0										
	100050	5	See Chart 2	30.5	100	8.9	19.6	1.14	.045	1.52	.060	14.55	.573				
				152.4	500	43.9	96.5										
				304.8	1000	87.3	192.0										
	100051	7	See Chart 2	30.5	100	11.7	25.8	1.14	.045	1.52	.060	15.82	.623				
				152.4	500	58.2	128.0										
				304.8	1000	115.5	254.0										
	100052	12	See Chart 2	30.5	100	21.0	46.3	1.14	.045	1.65	.065	20.93	.824				
				152.4	500	100.9	222.0										
				304.8	1000	206.4	454.0										

Unshielded

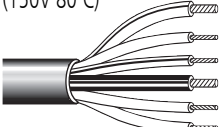
Audio, Control, Communication and Instrumentation Cables

Special Non-Plenum

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

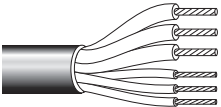
22 and 18 AWG Stranded Conductors (7x30 and 16x30) • Tinned Copper • Conductors Cabled

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2576 (150V 80°C) 	100053	6:	Red, Green,	30.5	100	2.4	5.2	.25	.010	.081	.032	5.99	.236	98	30	177	54
		4 Unshld	Brown,	U-152.4	U-500	9.5	21.0										
		22 (7x30)	Blue	152.4	500	9.8	21.5										
		2 Unshld	Black,	U-304.8	U-1000	19.1	42.0	.019	.48								
		18 (16x30)	White	304.8	1000	19.1	42.0										

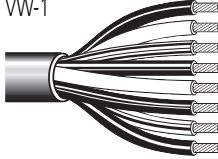
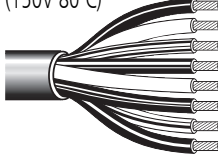
20 and 16 AWG Stranded Conductors (7x28 and 19x28) • Tinned Copper • Conductors Cabled

PVC Insulation • Chrome PVC Jacket

NEC Article 800 (90°C) 	100054	6:	Green,	U-152.4	U-500	15.0	33.0	30	.012	.81	.032	7.49	.295	66	20	118	36
		3 Unshld	Blue,														
		20 (7x28)	Purple														
		3 Unshld	Black,					.33	.013					98	30	177	54
		16 (19x28)	Red, Yellow														

Unshielded

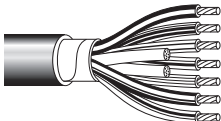
Antenna Rotor Control Cables and Duplex Primary Wire

Description	Part No.	No. of Cond.	Color Code	AWG (stranding)	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch
Antenna Rotor Cables Stranded Conductors • Tinned Copper • Conductors Cabled														
PVC Insulation • Chrome PVC Jacket														
UL AWM Style 2464 (300V 80°C) VW-1	100055	8	Black, White	2@16 (19x28)	152.4 304.8	500 1000	21.4 41.8	47.0 92.0	.48	.019	.81	.032	8.76	.345
			Brown, Red Yellow, Blue, Orange, Green	6@18 (16x30)					.46	.018				
UL AWM Style 2576 (150V 80°C)	100056	8	Black, White	2@18 (16x30)	U-152.4 152.4	U-500 500	11.4 11.6	25.0 25.5	.48	.019	.81	.032	6.58	.259
			Red, Green, Brown, Blue, Yellow, Orange	6@22 (7x30)	U-304.8 304.8	U-1000 1000	22.3 22.7	49.0 50.0	.25	.010				
Duplex Primary Wire Stranded Conductors • Bare Copper • Conductors Parallel														
PVC Insulation • Chrome PVC Jacket														
300V RMS 75°C VW-1	100057	2	Brown, Red	16 (19x29)	152.4	500	8.4	18.5	.61	.024	.56	.022	3.78 x .254	.149 x 6.45
	100058	2	Brown, Red	14 (19x27)	152.4	500	10.9	24.0	.58	.023	.58	.023	4.27 x 7.37	.168 x .290
	100059	2	Brown, Red	12 (19x25)	152.4	500	14.8	32.5	.65	.026	.56	.022	4.72 x 8.33	.186 x .328
	100060	2	Brown, Red	10 (19x23)	152.4	500	23.0	50.5	.77	.031	.64	.025	5.72 x 10.16	.225 x .400

Unshielded

Power and Control Cables

Rubber and Oil Resistant Rubber SO Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/ m	* pF/ Ft.	** pF/ m	** pF/ Ft.
16 AWG Stranded Conductors (65x34) • Bare Copper • Conductors Cabled with Fillers • Paper Tape Separator																	
Rubber Insulation • Black Oil-resistant Rubber Jacket																	
	600V RMS 60°C	100061	5	See Chart 2	30.5 152.4 304.8	100 500 1000	6.8 33.4 65.0	14.9 73.5 143.0	.838	.033	2.13	.084	12.85	.506			
		100062	7	See Chart 2	30.5 152.4 304.8	100 500 1000	9.2 45.9 91.4	20.3 101.0 201.0	.838	.033	2.11	.083	14.76	.581			
		100063	9	See Chart 2	30.5 152.4 304.8	100 500 1000	13.0 68.4 130.9	28.6 150.5 288.0	.838	.033	2.54	.100	18.29	.720			
		100064	12	See Chart 2	30.5 152.4 304.8	100 500 1000	14.4 75.2 144.5	31.6 165.5 318.0	.838	.033	2.54	.100	18.29	.720			
		100065	16	See Chart 2	30.5 304.8	100 1000	18.7 194.5	41.2 428.0	.838	.033	2.54	.100	19.99	.787			
		100066	20	See Chart 2	30.5 152.4	100 500	22.0 105.9	48.4 233.0	.838	.033	2.54	.100	21.89	.862			

Overall Enerfoil® Shield

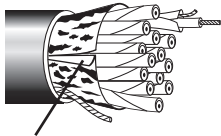
Computer Cables for Synchronous EIA Interface

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Vel. of Prop.	Nominal Capacitance			
				m	Ft.	kg	Lbs.	mm	Inch	Cond.	Shield		* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

28 AWG Stranded (7x36) • Tinned Copper • Individually and Overall Enerfoil Shielded • 28 AWG Stranded TC Drain Wires • Nom. Imped.: 65Ω

Enerlene® Insulation • Gray PVC Jacket

UL AWM Style 2384 (30V 60°C)	100067	14		304.8	1000	32.4	71.0	10.01	.394	64.9Ω/M' 212.9Ω/km	Individual: 44.0Ω/M' 144.4Ω/km Overall: 18.2Ω/M' 59.7Ω/km	78%			67.3	20.5
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Enerfold®

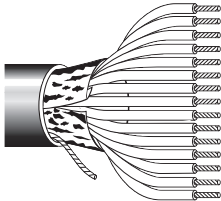
Individually Enerfoil shielded conductors are isolated from adjacent shields and each has a 28 AWG stranded drain wire.

DCR = DC Resistance • TC = Tinned Copper

Enerlene 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.

Overall Enerfoil® Shield

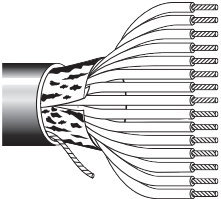
Computer Cables for EIA RS-232 Applications

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance				
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.	
24 AWG Stranded (7x32) • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 24 AWG Stranded TC Drain Wire																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
	UL AWM Style 2464 (300V 80°C)	100068	3	See Chart 1	30.5	100	1.2	2.7	.25	.010	.81	.032	4.11	.162	108	33	213	65
					U-152.4	U-500	4.1	9.0										
					152.4	500	4.1	9.0										
					U-304.8	U-1000	7.7	17.0										

TC = Tinned Copper

Overall Enerfoil® Shield

Computer Cables for EIA RS-232 Applications

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/ m	* pF/ Ft.	** pF/ m	** pF/ Ft.
24 AWG Stranded (7x32) • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 24 AWG Stranded TC Drain Wire (continued)																	
Semi-rigid PVC Insulation • Chrome PVC Jacket																	
	100078	25	See Chart 2R	30.5	100	4.0	8.7	.25	.010	.81	.032	8.61	.339	98	30	180	55
				152.4	500	20.0	44.0										
				304.8	1000	39.1	86.0										
	100079	30	See Chart 2R	30.5	100	4.7	10.3	.25	.010	1.02	.040	9.65	.380	98	30	180	55
				152.4	500	23.4	51.5										
304.8				1000	46.4	102.0											
100080	40	See Chart 2R	30.5	100	6.2	13.6	.25	.010	1.02	.040	10.92	.430	98	30	180	55	
			152.4	500	29.5	65.0											
			304.8	1000	59.1	130.0											
100081	50	See Chart 2R	30.5	100	7.5	16.5	.25	.010	1.14	.045	12.45	.490	98	30	180	55	
			152.4	500	37.0	81.5											
			304.8	1000	76.4	168.0											

TC = Tinned Copper

Overall Enerfoil® Shield

Audio, Control and Instrumentation Cables
Non-Plenum

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

22 AWG Stranded (7x30) • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 22 AWG Stranded TC Drain Wire

Polypropylene Insulation • Brown PVC Jacket

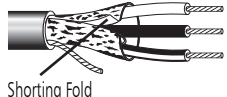
300V RMS	100082	3	Black,	U-152.4	U-500	4.1	9.0	.20	.008	.51	.020	3.68	.145	105	32	197	60
			Red,	152.4	500	4.1	9.0										
			White	U-304.8	U-1000	7.7	17.0										
				304.8	1000	7.7	17.0										



Enerfoil®

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 2093 (300V 60°C)	100083	3	Black,	76.2	250	2.8	6.3	.41	.016	.84	.033	5.05	.199	75	23	134	41
			Red,	U-152.4	U-500	5.5	12.0										
			Clear	152.4	500	5.5	12.0										
				U-304.8	U-1000	10.9	24.0										
				304.8	1000	10.9	24.0										
				3048.0	10000	109.1	240.0										

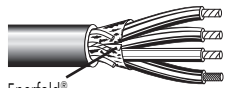


Shorting Fold

22 AWG Stranded (19x34) • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 23 and 25 AWG Drain Wires†

Polyethylene Insulation • White PVC Jacket

UL AWM Style 2094 (300V 75°C)	100084	4	Black,	U-152.4	U-500	10.7	23.5	.41	.016	1.30	.051	6.53	.257	72	22	138	42
			Red,	152.4	500	10.7	23.5										
			Green,	U-304.8	U-1000	20.9	46.0										
			Clear	304.8	1000	21.4	47.0										



Enerfoil®

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

20 AWG Stranded (7x28) • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 20 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 2093 (300V 60°C)	100085	3	Black,	U-152.4	U-500	7.3	16.0	.41	.016	.84	.033	5.54	.218	89	27	167	51
			Red,	152.4	500	7.3	16.0										
			Clear	U-304.8	U-1000	14.1	31.0										
				304.8	1000	14.1	31.0										



Enerfoil®

TC = Tinned Copper

Overall Enerfoil® Shield

Audio, Control and Instrumentation Cables

Plenum-Rated and Non-Plenum

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

18 AWG Stranded (16x30) • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 20 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 2093 (300V 60°C)	100086	3	Black,	U-152.4	U-500	9.1	20.0	.46	.018	.84	.033	6.25	.246	79	24	157	48
			Red,	152.4	500	9.3	20.5										
			Clear	U-304.8	U-1000	17.7	39.0										
				304.8	1000	18.2	40.0										
				3048.0	10000	195.5	430.0										

For Plenum versions of 100086, see 100088 or 100166



Shorting Fold

18 AWG Stranded (19x30) • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 20 AWG Stranded TC Drain Wire

Semi-rigid PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C)	100087	4	Red,	30.5	100	2.7	5.9	.25	.010	.89	.035	6.22	.245	230	70	394	120
			Green,	U-152.4	U-500	11.4	25.0										
			White	152.4	500	11.6	25.0										
				U-304.8	U-1000	22.7	50.0										
				304.8	1000	22.7	50.0										

For Plenum versions of 100087, see 100089, 100090, 100167 or 100168



Enerfoil®

Plenum • FEP Insulation • Red FEP Jacket

Non-conduit	100088	3	Black,	152.4	500 [†]	8.2	18.0	.18	.007	.36	.014	4.09	.161	177	54	315	96
			White, Red	304.8	1000 [†]	15.5	34.0										



Suitable for Outdoor and Direct Burial applications.

Non-conduit	100089	4	Black,	30.5	100	2.5	5.5	.18	.007	.36	.014	4.50	.177	98	30	187	57
			White,	152.4	500 [†]	9.1	20.0										
			Red, Green	304.8	1000 [†]	18.6	41.0										



Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Enerflame® Jacket

Non-conduit	100090	4	Black,	U-304.8	U-1000 [†]	15.9	35.0	.18	.007	.36	.014	4.47	.176	115	35	207	63
			White,	304.8	1000 [†]	17.7	39.0										
			Red, Green														



16 AWG Stranded (19x29) • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 18 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 2107 (600V 60°C)	100091	3	Black,	U-152.4	U-500	14.5	32.0	.73	.031	.79	.031	8.3	.327	85	26	164	50
			Red,	152.4	500	14.5	32.0										
			Clear	304.8	1000	30.5	67.0										



Enerfoil®

TC = Tinned Copper

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

Overall Braid and Special Shielding

Audio, Control and Instrumentation Cables

Non-Plenum

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

30 AWG Stranded Conductors (7x38) • Tinned Copper • Conductors Cabled • Paper Separator • 95% Tinned Copper Braid Shield

Polypropylene Insulation • Chrome PVC Jacket

200V RMS 105°C	100092	3	Black, Red, White	30.5 76.2	100 250	.5 1.4	1.1 3.0	.15	.006	.36	.014	2.44	.096	82	25	141	43
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Conductors cabled around textile strength member.

22 AWG Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled • 70% Tinned Copper Braid Shield

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2095 (300V 80°C)	100093	3	Black, Red, White	152.4 U-304.8 304.8	500 U-1000 1000	6.6 12.3 12.3	14.5 27.0 27.0	.38	.015	.64	.025	5.13	.202	112	34	197	60
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20 AWG Stranded Conductors (7x28) • Tinned Copper • 85% Tinned Copper Braid Shield

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C)	100094	6	See Chart 2	30.5 152.4 304.8	100 500 1000	3.3 15.7 31.4	7.3 34.5 69.0	.41	.016	.81	.032	7.75	.305	85	26	164	50
	100095	12	See Chart 2R	30.5 152.4 304.8	100 500 1000	12.0 60.0 119.0	30.5 152.4 304.8	.41	.016	1.02	.040	10.06	.396	85	26	187	57



Combination Shielded/Unshielded • 22 AWG Stranded (7x30) • Tinned Copper • Conductors Cabled • 80% Tinned Copper Braid Shield†

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2785 (300V 80°C)	100096	3: 1 Shld 2 Unshld	Black, Red, White	U-304.8 304.8	U-1000 1000	10.5 10.5	23.0 23.0	.38	.015	.64	.025	4.93	.194			259	79
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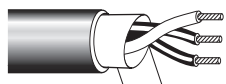


† Tinned copper braid shield over one conductor (80% coverage).

Overall Spiral Shield • 18 AWG Stranded (7x26) • Tinned Copper • Conductors Cabled • Tinned Copper Spiral Wrap (80% Coverage)

PVC Insulation • Chrome PVC Jacket

450V RMS 80°C VW-1	100097	3	Black, Red, White	152.4 U-304.8 304.8	500 U-1000 1000	10.5 20.5 20.9	23.0 45.0 46.0	.56	.022	.71	.028	6.60	.260	154	47	276	84
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Overall Braid Shield

MIL-W-16878 (Type B) Conductors, Shielded and Jacketed[†]
Communication and Instrumentation Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.
22 AWG Stranded Conductors (19x34) • .76mm (.003") Clear Nylon Skin over Insulation • 90% Tinned Copper Braid Shield																	
PVC Insulation • White PVC Jacket																	
600V RMS 105°C VW-1	100098	1	White	304.8	1000	4.5	10.0	.25	.010	.25	.010	2.54	.100			328	100
	100099	2	White, Black	30.5	100	1.3	2.8	.25	.010	.51	.020	4.47	.176	171	52	285	87
				152.4	500	4.8	10.5										
				304.8	1000	9.6	21.0										
	100100	3††	White, Black, Red	30.5	100	1.6	3.5	.25	.010	.51	.020	4.67	.184	148	45	289	88
				152.4	500	5.9	13.0										
				304.8	1000	11.8	26.0										
	100101	4††	White, Black, Red, Green	30.5	100	1.8	3.9	.25	.010	.51	.020	5.08	.200	138	42	226	69
				152.4	500	7.3	16.0										
				304.8	1000	14.1	31.0										
20 AWG Stranded Conductors (19x32) • Tinned Copper • .10mm (.004") Clear Nylon Skin over Insulation • 90% Tinned Copper Braid Shield																	
PVC Insulation • White PVC Jacket																	
600V RMS 105°C VW-1	100102	1	White	152.4	500	2.3	5.0	.27	.011	.25	.010	2.77	.109			338	103
	100103	2††	White, Black	30.5	100	1.5	3.3	.27	.011	.51	.020	4.88	.192	174	53	299	91
				152.4	500	5.7	12.5										
				304.8	1000	10.9	24.0										
	100104	3††	White, Black, Red	30.5	100	1.8	3.9	.27	.011	.64	.025	5.33	.210	161	49	276	84
				152.4	500	7.3	16.0										
				304.8	1000	14.1	31.0										
	100105	4	White, Black, Red, Green	30.5	100	2.1	4.6	.27	.011	.64	.025	5.74	.226	148	45	249	76
				152.4	500	8.9	19.5										
				304.8	1000	17.3	38.0										
16 AWG Stranded Conductors (19x29) • Tinned Copper • .10mm (.004") Clear Nylon Skin over Insulation • 90% Tinned Copper Braid Shield																	
PVC Insulation • White PVC Jacket																	
600V RMS 105°C VW-1	100106	1	White	304.8	1000	10.0	22.0	.30	.012	.41	.016	3.63	.143			453	138
	100107	2††	White, Black	30.5	100	2.3	5.1	.30	.012	.64	.025	6.35	.250	187	57	312	95
				152.4	500	9.3	20.5										
				304.8	1000	19.1	42.0										
	100108	3††	White, Black, Red	30.5	100	3.0	6.5	.30	.012	.64	.025	6.71	.264	190	58	331	101
				152.4	500	12.7	28.0										
				304.8	1000	25.5	56.0										
	100109	4††	White, Black, Red, Green	30.5	100	3.6	7.9	.30	.012	.69	.027	7.39	.291	161	49	308	94
				152.4	500	15.7	34.5										
				304.8	1000	30.9	68.0										

[†] Manufactured to Government specifications: MIL-W-16878 Rev. D.

^{††} Conductors cabled.

Overall Foil/Braid Shield

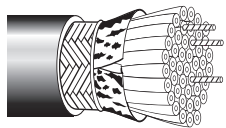
Computer Cables for EIA RS-232 Applications and IEEE 488 Interface,
Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Vel. of Prop.	Nominal Capacitance			
				m	Ft.	kg	Lbs.	mm	Inch	Cond.	Shield		* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

28 AWG Stranded Conductors (7x36) • Tinned Copper • Overall Enerfoil® + 65% Tinned Copper Braid Shield

Semi-rigid PVC Insulation • Chrome PVC Jacket

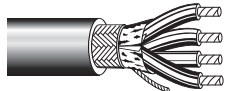
UL AWM Style 2464 (300V 80°C)	100110	25	See Chart 2R	30.5 152.4 304.8	100 500 1000	2.8 13.2 26.8	6.2 29.0 59.0	7.75	.305	64.9Ω/M' 212.9Ω/km	4.5Ω/M' 14.8Ω/km		98	30	164	50
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Low Capacitance • 28 AWG Stranded (7x36) • Tinned Copper • Overall Enerfoil + 65% TC Braid Shield • 28 AWG Stranded TC Drain Wire

Enerlene® Insulation • Chrome PVC Jacket

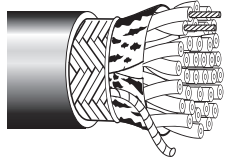
UL AWM Style 2919 (30V 80°C)	100111	6	See Chart 1	152.4 304.8	500 1000	7.3 12.3	16.0 27.0	5.72	.225	64.9Ω/M' 212.9Ω/km	6.15Ω/M' 20.2Ω/km	78%	39.4	12	72.2	22
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IEEE 488 • 26 AWG and 24 AWG Stranded Conductors (7x34 and 7x32) • Tinned Copper • Overall Foil + 90% TC Braid Shield • Drain Wire

Semi-rigid PVC Insulation • Gray PVC Jacket

UL AWM Style 2464 (300V 80°C)	100112	23 (6) 26 AWG Pairs	See Chart 1	304.8	1000	37.4	82.0	8.89	.350	26 AWG: 37.3Ω/M' 122.4Ω/km	2.6Ω/M' 8.5Ω/km					
CSA AWM I A		(10) 26 AWG Cond.								24 AWG: 23.3Ω/M' 76.4Ω/km						
		(1) 24 AWG Cond.														

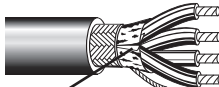


TC = Tinned Copper

Enerlene 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.

Overall Foil /Braid Shield

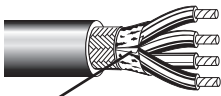
Computer Cables for EIA RS-232 Applications

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Vel. of Prop.	Nominal Capacitance			
				m	Ft.	kg	Lbs.	mm	Inch	Cond.	Shield		* pF/m	* pF/Ft.	** pF/m	** pF/Ft.
24 AWG Stranded Conductors (7x32) • Tinned Copper • Overall 100% Enerfoil® + 65% TC Braid Shield • 24 AWG Stranded TC Drain Wire																
Semi-rigid PVC Insulation • Chrome PVC Jacket																
UL AWM Style 2464 (300V 80°C)	100113	3	See Chart 1	30.5	100	1.5	3.2	4.83	.190	24.0Ω/M'	8.6Ω/M'		115	35	213	65
				152.4	500	5.5	12.0			78.7Ω/km	28.2Ω/km					
				304.8	1000	10.5	23.0									
	100114	4	See Chart 1	30.5	100	1.6	3.5	5.08	.200	24.0Ω/M'	9.8Ω/M'		115	35	213	65
				152.4	500	6.4	14.0			78.7Ω/km	32.2Ω/km					
				304.8	500	11.8	26.0									
	100115	5	See Chart 1	30.5	100	1.8	4.0	5.46	.215	24.0Ω/M'	6.5Ω/M'		115	35	213	65
				152.4	500	7.3	16.0			78.7Ω/km	21.3Ω/km					
				304.8	1000	14.5	32.0									
	100116	6	See Chart 1	30.5	100	2.1	4.7	5.72	.225	24.0Ω/M'	7.0Ω/M'		98.4	30	180	55
				152.4	500	8.0	17.5			78.7Ω/km	23.0Ω/km					
				304.8	1000	15.5	34.0									
	100117	7	See Chart 1	30.5	100	2.1	4.7	5.72	.225	24.0Ω/M'	6.9Ω/M'		98.4	30	180	55
				152.4	500	8.6	19.0			78.7Ω/km	22.6Ω/km					
				304.8	1000	17.3	38.0									
	100118	8	See Chart 1	30.5	100	2.3	5.0	41.0	.240	24.0Ω/M'	7.3Ω/M'		98.4	30	180	55
				152.4	500	9.6	21.0			78.7Ω/km	23.9Ω/km					
				304.8	1000	18.6	41.0									
	100119	9	See Chart 1	30.5	100	2.4	5.3	6.42	.253	24.0Ω/M'	7.5Ω/M'		98.4	30	180	55
				152.4	500	10.0	22.0			78.7Ω/km	24.6Ω/km					
				304.8	1000	20.0	44.0									
	100120	10	See Chart 1	30.5	100	2.8	6.1	6.86	.270	24.0Ω/M'	6.9Ω/M'		98.4	30	180	55
				152.4	500	11.4	25.0			78.7Ω/km	22.6Ω/km					
				304.8	1000	22.7	50.0									
	100121	15	See Chart 2R	30.5	100	3.0	6.6	7.62	.300	24.0Ω/M'	6.0Ω/M'		98.4	30	180	55
				152.4	500	14.3	31.5			78.7Ω/km	19.7Ω/km					
				304.8	1000	28.6	63.0									
	100122	25	See Chart 2R	30.5	100	4.6	10.1	9.40	.370	24.0Ω/M'	5.1Ω/M'		98.4	30	180	55
				152.4	500	23.2	51.0			78.7Ω/km	16.7Ω/km					
				304.8	1000	45.5	100.0									
	100123	37	See Chart 2R	30.5	100	6.0	13.3	10.43	.411	24.0Ω/M'	4.4Ω/M'		98.4	30	180	55
				152.4	500	30.2	66.5			78.7Ω/km	14.4Ω/km					
				304.8	1000	60.0	132.0									
	100124	50	See Chart 2R	30.5	100	8.6	18.8	12.32	.485	24.0Ω/M'	4.3Ω/M'		98.4	30	180	55
				152.4	500	42.4	93.0			78.7Ω/km	14.1Ω/km					
				304.8	1000	83.0	182.0									

DCR = DC Resistance • TC = Tinned Copper

Overall Foil /Braid Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-423 Applications

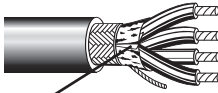
Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Vel. of Prop.	Nominal Capacitance			
				m	Ft.	kg	Lbs.	mm	Inch	Cond.	Shield		* pF/m	* pF/Ft.	** pF/m	** pF/Ft.
24 AWG Stranded Conductors (7x32) • Tinned Copper • Overall 100% Enerfoil® + 65% TC Braid Shield • 24 AWG Stranded TC Drain Wire																
Enerlene® Insulation • Chrome PVC Jacket																
 UL AWM Style 2919 (30V 80°C)	100125	3	See Chart 1	30.5 152.4 304.8	100 500 1000	1.6 7.3 11.8	3.5 16.0 26.0	5.46	.215	24.0Ω/M' 78.7Ω/km	5.2Ω/M' 17.0Ω/km	78%	39.4	12	72.2	22
	100126	4	See Chart 1	30.5 152.4 304.8	100 500 1000	1.9 7.0 14.1	4.1 15.5 31.0	5.84	.230	24.0Ω/M' 78.7Ω/km	5.3Ω/M' 17.4Ω/km	78%	39.4	12	72.2	22
	100127	5	See Chart 1	30.5 152.4 304.8	100 500 1000	2.0 8.2 16.4	4.5 18.0 36.0	6.25	.246	24.0Ω/M' 78.7Ω/km	4.2Ω/M' 13.9Ω/km	78%	39.4	12	72.2	22
	100128	6	See Chart 1	30.5 152.4 304.8 3048.0	100 500 1000 10000	2.2 8.9 17.7 186.4	4.9 19.5 39.0 410.0	6.73	.265	24.0Ω/M' 78.7Ω/km	4.4Ω/M' 14.4Ω/km	78%	39.4	12	72.2	22
	100129	7	See Chart 1	30.5 152.4 304.8	100 500 1000	2.4 9.3 18.6	5.2 20.5 41.0	6.73	.265	24.0Ω/M' 78.7Ω/km	4.4Ω/M' 14.4Ω/km	78%	39.4	12	72.2	22
	100130	8	See Chart 1	30.5 152.4 304.8 3048.0	100 500 1000 10000	2.5 10.5 20.9 218.2	5.6 23.0 46.0 480.0	7.11	.280	24.0Ω/M' 78.7Ω/km	4.4Ω/M' 14.4Ω/km	78%	39.4	12	72.2	22
	100131	9	See Chart 1	30.5 152.4 304.8	100 500 1000	2.7 10.9 21.8	5.9 24.0 48.0	7.62	.300	24.0Ω/M' 78.7Ω/km	3.9Ω/M' 12.6Ω/km	78%	39.4	12	72.2	22
	100132	10	See Chart 1	30.5 152.4 304.8	100 500 1000	2.6 12.3 24.1	5.7 27.0 53.0	7.77	.306	24.0Ω/M' 78.7Ω/km	3.2Ω/M' 10.4Ω/km	78%	39.4	12	72.2	22
	100133	15	See Chart 2R	30.5 152.4 304.8	100 500 1000	3.3 15.9 30.9	7.2 35.0 68.0	8.89	.350	24.0Ω/M' 78.7Ω/km	3.6Ω/M' 11.7Ω/km	78%	39.4	12	72.2	22
	100134	25	See Chart 2R	30.5 152.4 304.8	100 500 1000	6.2 24.8 49.1	13.6 54.5 108.0	11.30	.445	24.0Ω/M' 78.7Ω/km	2.8Ω/M' 9.1Ω/km	78%	39.4	12	72.2	22
100135	37	See Chart 2R	30.5 152.4 304.8	100 500 1000	7.6 32.5 63.2	16.8 71.5 139.0	13.08	.515	24.0Ω/M' 78.7Ω/km	2.4Ω/M' 7.8Ω/km	78%	39.4	12	72.2	22	

DCR = DC Resistance • TC = Tinned Copper

Enerlene 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.

Overall Foil /Braid Shield

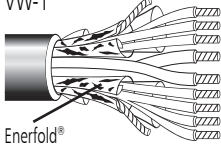
Computer Cables for EIA RS-232 Applications

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nom. Vel. of Prop.	Nominal Capacitance			
				m	Ft.	kg	Lbs.	mm	Inch	Cond.	Shield		* pF/m	* pF/Ft.	** pF/m	** pF/Ft.
22 AWG Stranded Conductors (7x30) • Tinned Copper • Overall 100% Enerfoil® + 65% Tinned Copper Braid Shield																
Semi-rigid PVC Insulation • Chrome PVC Jacket																
 Enerfoil®	100136	3	See Chart 1	30.5	100	1.6	3.6	5.13	.202	14.7Ω/M'	6.2Ω/M'	121	37	220	67	
				152.4	500	6.4	14.0			48.2Ω/km	20.3Ω/km					
				304.8	1000	12.3	27.0									
	100137	4	See Chart 1	30.5	100	1.8	4.0	5.46	.215	14.7Ω/M'	5.0Ω/M'	121	37	220	67	
				152.4	500	7.5	16.5			48.2Ω/km	16.4Ω/km					
				304.8	1000	14.5	32.0									
	100138	5	See Chart 1	30.5	100	2.1	4.7	5.84	.230	14.7Ω/M'	7.1Ω/M'	121	37	220	67	
				152.4	500	8.6	19.0			48.2Ω/km	23.3Ω/km					
				304.8	1000	17.3	38.0									
	100139	6	See Chart 1	30.5	100	2.4	5.2	6.22	.245	14.7Ω/M'	7.9Ω/M'	115	35	207	63	
				152.4	500	10.0	22.0			48.2Ω/km	25.9Ω/km					
				304.8	1000	19.5	43.0									
100140	7	See Chart 1	30.5	100	2.5	5.5	6.22	.245	14.7Ω/M'	7.0Ω/M'	115	35	207	63		
			152.4	500	10.5	23.0			48.2Ω/km	23.0Ω/km						
			304.8	1000	20.9	46.0										
100141	8	See Chart 1	30.5	100	2.8	6.2	6.60	.260	14.7Ω/M'	6.0Ω/M'	115	35	207	63		
			152.4	500	11.8	26.0			48.2Ω/km	19.7Ω/km						
			304.8	1000	23.2	51.0										
100142	9	See Chart 1	30.5	100	3.1	6.8	7.11	.280	14.7Ω/M'	5.1Ω/M'	115	35	207	63		
			152.4	500	13.0	28.5			48.2Ω/km	16.7Ω/km						
			304.8	1000	25.9	57.0										
100143	10	See Chart 1	30.5	100	3.3	7.3	7.62	.300	14.7Ω/M'	4.6Ω/M'	115	35	207	63		
			152.4	500	14.3	31.5			48.2Ω/km	15.1Ω/km						
			304.8	1000	28.2	62.0										
100144	15	See Chart 2R	30.5	100	4.0	8.7	8.64	.340	14.7Ω/M'	4.1Ω/M'	115	35	207	63		
			152.4	500	19.3	42.5			48.2Ω/km	13.5Ω/km						
			304.8	1000	37.7	83.0										
100145	25	See Chart 2R	30.5	100	6.0	13.1	10.41	.410	14.7Ω/M'	3.1Ω/M'	115	35	207	63		
			152.4	500	29.8	65.5			48.2Ω/km	10.2Ω/km						
			304.8	1000	59.1	130.0										
100146	37	See Chart 2R	30.5	100	8.0	17.7	11.68	.460	14.7Ω/M'	2.7Ω/M'	115	35	207	63		
			152.4	500	39.8	87.5			48.2Ω/km	8.9Ω/km						
			304.8	1000	81.8	180.0										
100147	50	See Chart 2R	30.5	100	10.9	23.9	14.10	.555	14.7Ω/M'	2.3Ω/M'	115	35	207	63		
			152.4	500	53.6	118.0			48.2Ω/km	7.5Ω/km						
			304.8	1000	108.2	238.0										

DCR = DC Resistance

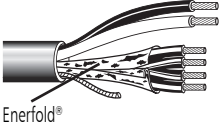
Overall Shield

Special Audio, Communication and Instrumentation Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance				
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/ m	* pF/ Ft.	** pF/ m	** pF/ Ft.	
24 and 22 AWG Stranded Conductors (7x32 and 7x30) • Tinned Copper • Cabled in Quads[†] • 24 AWG Stranded Tinned Copper Drain Wire																		
PVC Insulation (22 AWG) / Polyethylene Insulation (24 AWG) • Chrome PVC Jacket																		
350V RMS 80°C VW-1	100148	10:	Gray,	U-152.4	U-500	11.1	24.5	.30	.012	.76	.030	7.37	.290					
		4 Shld	White,	152.4	500	11.1	24.5											
		24 (7x32)	Blue, Green															
		4 Shld	Brown,						.30	.012								
		24 (7x32)	Red, Yellow, Orange															
		2 Unshld	White,					.38	.015									
		22 (7x30)	Blue															

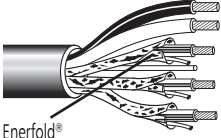
† Each quad wrapped in transparent polyester tape. Red Enerfoil® shield over one quad, Green Enerfoil shield over the other. (2) quads and (2) unshielded conductors cabled.

24 and 22 AWG Stranded Conductors (7x32 and 7x30) • Tinned Copper • (4) Conductors Cabled†† • 22 AWG Stranded Tinned Copper Drain Wire

PVC Insulation • Chrome PVC Jacket																	
300V 90°C NEC Article 800	100149	6:	Black,	U-152.4	U-500	7.5	16.5	.38	.015	.71	.028	5.99	.236				
		4 Shld	Green,	152.4	500	7.7	17.0										
		24 (7x32)	Red, Yellow														
		2 Unshld	Blue,														
		22 (7x30)	White														

†† (4) conductors cabled under 100% Enerfoil shield; (2) conductors unshielded.

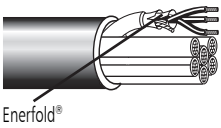
22 AWG Stranded Conductors (7x30) • Tinned Copper • (3) Conductors Cabled and Separately Enerfoil Shielded (100%) with Drain Wires**

PVC Insulation • Chrome PVC Jacket																	
300V RMS 60°C	100150	5:	Black,	152.4	500	8.0	17.5	.38	.015	.71	.028	5.99	.236	112	34		
		3 Shld	Red, Green														
		2 Unshld*	Yellow, Blue														

* (2) Unshielded conductors cabled around a non-hygroscopic filler.

** Drain wire for each conductor is tinned cadmium bronze ribbon under 100% Enerfoil shield coverage.

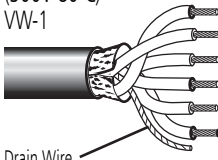
22 AWG Triads Stranded Conductors (7x30) • Tinned Copper • Cabled in Triads* • 22 AWG Stranded Tinned Copper Drain Wire**

Polypropylene Insulation • Overall Chrome PVC Jacket																	
300V RMS 80°C VW-1	100151	36 (12 triads)	Black, Red, Green, Triads w/ Color Coded Jackets	152.4	500	63.2	139.0	.20	.008	1.52	.060	18.42	.725	112	34	220	67
																	

*** Each triad shielded with 100% Enerfoil shield and drain wire, encased in a .020" white PVC jacket with color coded stripes.

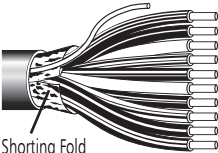
Overall Shield

Data Cables for Molex SEMMCONN and Innovable® SDL Connectors
Computers, Instrumentation and Medical Electronics Interconnect Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/ m	* pF/ Ft.	** pF/ m	** pF/ Ft.
26 AWG Stranded Conductors (7x34) • Tinned Copper • 100% Bifoil® Shield • 26 AWG Stranded Tinned Copper Drain Wire																	
PVC Insulation • Black PVC Jacket																	
	100152	4	White, Yellow, Orange, Green	152.4 304.8	500 1000	5.5 10.5	12.0 23.0	.37	.015	.89	.035	4.90	.193				
	100153	6	Red,Blue, Green, Orange, Yellow, White	152.4 304.8	500 1000	6.8 13.2	15.0 29.0	.37	.015	.89	.035	5.51	.217				
	100154	8	Black, Purple, Red,Blue, Green, Orange, Yellow, White	152.4 304.8	500 1000	5.5 10.5	12.0 23.0	.37	.015	.91	.036	5.94	.234				
	100155	16	White & Red, White & Brown, White & Black, Black, Red, Brown, Purple, Blue, Green, Gray, Aqua, Tan Pink, Orange, White, Yellow	304.8	1000	25.9	57.0	37	.015	.89	.035	7.65	.301				

Overall Shield

Direct Burial Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.
20 AWG Solid Conductors • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil® Shield • 22 AWG Solid TC Drain Wire																	
Polypropylene Insulation • Black HDPE Jacket																	
350V 80°C 	100156	2	White, Black	152.4 304.8	500 1000	5.7 9.1	12.5 20.0	.33	.013	.89	.035	4.83	.190	75	23	138	42
Polypropylene Insulation • Black HDPE Jacket																	
350V RMS 	100157	3	White, Red, Black	304.8	1000	11.4	25.0	.33	.013	.89	.035	5.21	.205	75	23	138	42
 Shorting Fold	100158	10	See Chart 1	152.4 304.8	500 1000	14.5 29.5	32.0 65.0	.33	.013	1.02	.040	7.87	.310	75	23	138	42
	100159	15	See Chart 2	304.8	1000	43.6	96.0	.33	.013	1.14	.045	9.91	.390	75	23	138	42

HDPE = High-density Polyethylene • TC = Tinned Copper

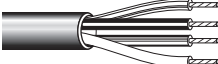
Plenum-Rated

Unshielded

Audio, Control and Instrumentation Cables

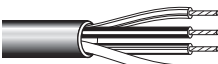
Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/ m	* pF/ Ft.	** pF/ m	** pF/ Ft.

22 AWG Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled**Plenum • FEP Insulation • Red FEP Jacket**

Non-conduit	100160	4	Black,	30.5	100	1.4	3.0	.15	.006	.25	.010	3.07	.121				
			White,	152.4	500 [†]	4.1	9.0										
			Red,	304.8	1000 [†]	7.3	16.0										
			Green														

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Enerflame® Jacket

Non-conduit	100161	4	Black,	U-152.4	U-500 [†]	3.9	8.5	.15	.006	.38	.015	3.40	.134				
			White,	U-304.8	U-1000 [†]	7.7	17.0										
			Red,	304.8	1000 [†]	7.7	17.0										
			Green														

22 AWG Stranded Conductors (7x30) • Tinned Copper • Twisted Pairs**Plenum • FEP Insulation • Red FEP Jacket**

300V RMS, Non-conduit	100162	2	Black,	30.5	100	1.0	2.3	.15	.006	30	.012	2.59	.102				
			Red	152.4	500 [†]	2.5	5.5										
				304.8	1000 [†]	4.5	10.0										

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Enerflame Jacket

300V RMS, Non-conduit	100163	2	Black,	U-304.8	U-1000 [†]	37.7	83.0	.15	.006	.36	.014	2.84	.112				
			Red	304.8	1000 [†]	38.2	84.0										

18 AWG Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled**Plenum • FEP Insulation • Red FEP Jacket**

Non-conduit	100164	4	Black,	152.4	500 [†]	7.5	16.5	.18	.007	.23	.009	4.09	.161				
			White,	304.8	1000 [†]	14.1	31.0										
			Red,														
			Green														

Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Enerflame Jacket

Non-conduit	100165	4	Black,	U-304.8	U-1000 [†]	14.1	31.0	.18	.007	.36	.014	4.32	.170				
			White,	304.8	1000 [†]	14.1	31.0										
			Red,														
			Green														

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

Plenum-Rated

Overall Enerfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	*	*	**	**
														pF/m	pF/Ft.	pF/m	pF/Ft.
18 AWG Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 20 AWG Stranded TC Drain Wire																	
Plenum • FEP Insulation • Red FEP Jacket																	
Non-conduit	100166	3	Black, White, Red	152.4	500†	8.2	18.0	.18	.007	.36	.014	4.09	.161	177	54	315	96
	100167	4	Black, White, Red, Green	30.5	100	2.5	5.5	.18	.007	.36	.014	4.50	.177	98	30	187	57
				152.4	500†	9.1	20.0										
				304.8	1000†	18.6	41.0										
Suitable for Outdoor and Direct Burial applications.																	
Plenum • FEP Insulation • Natural Enerflame® Jacket																	
Non-conduit	100168	4	Black, White, Red, Green	U-304.8	U-1000†	15.9	35.0	.18	.007	.36	.014	4.47	.176	115	35	207	63
				304.8	1000†	17.7	39.0										

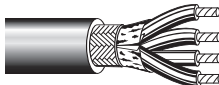
TC = Tinned Copper

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

Plenum-Rated

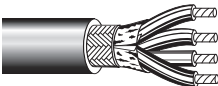
Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	pF/m	pF/Ft.	pF/m	pF/Ft.
24 AWG Stranded Conductors (7x32) • Tinned Copper • Conductors Cabled • 100% Enerfoil® + 85% Tinned Copper Braid Shield																	
Plenum • FEP Insulation • Red FEP Jacket																	
Non-conduit	100169	3	See Chart 2	152.4 304.8	500† 1000†	4.3 8.2	9.5 18.0	.15	.006	.014	.36	.135	3.43	66	20	118	36
	100170	4	See Chart 2	30.5 152.4 304.8	100 500† 1000†	1.6 5.2 10.0	3.5 11.5 22.0	.15	.006	.36	.014	3.66	.144	66	20	118	36
	100171	6	See Chart 2	152.4 304.8	500† 1000†	6.8 12.7	15.0 28.0	.15	.006	.36	.014	4.19	.165	66	20	118	36
	100172	9	See Chart 2	30.5 152.4 304.8	100 500† 1000†	2.4 8.6 17.7	5.3 19.0 39.0	.15	.006	.36	.014	4.78	.188	66	20	118	36
	100173	12	See Chart 2	152.4 304.8	500† 1000†	10.5 21.4	23.0 47.0	.15	.006	.36	.014	5.26	.207	66	20	118	36
	100174	15	See Chart 2	30.5 152.4 304.8	100 500† 1000†	3.3 12.3 24.1	7.2 27.0 53.0	.15	.006	.36	.014	5.77	.227	66	20	118	36

Suitable for Outdoor and Direct Burial applications.

Suitable for Outdoor and Direct Burial applications.

22 AWG Stranded Conductors (7x30) • Tinned Copper • Conductors Cabled • 100% Enerfoil + 85% Tinned Copper Braid Shield																	
Plenum • FEP Insulation • Red FEP Jacket																	
Non-conduit	100175	2	See Chart 2	152.4 304.8	500 [†] 1000 [†]	4.5 8.2	10.0 18.0	.15	.006	.36	.014	3.58	.141	75	23	131	40
	100176	3	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	1.6 5.5 10.0	3.5 12.0 22.0	.15	.006	.36	.014	3.76	.144	75	23	131	40
	100177	4	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	1.8 6.4 12.3	4.0 14.0 27.0	.15	.006	.36	.014	4.04	.159	75	23	131	40
	100178	6	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	2.4 8.2 17.3	5.2 18.0 38.0	.15	.006	.36	.014	4.65	.183	75	23	131	40
	100179	9	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	3.1 11.4 22.7	6.8 25.0 50.0	.15	.006	.36	.014	5.31	.209	75	23	131	40
	100180	12	See Chart 2	152.4 304.8	500 [†] 1000 [†]	13.9 27.3	30.5 60.0	.15	.006	.38	.015	5.94	.234	75	23	131	40
	100181	19	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	4.4 20.7 38.6	9.6 45.5 85.0	.15	.006	.38	.015	6.83	.269	75	23	131	40

Suitable for Outdoor and Direct Burial applications.

[†] Spools are one piece, but length may vary ±10% from length shown.

Plenum-Rated

Overall Foil/Braid Shield

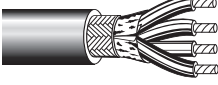
Audio, Control and Instrumentation Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

20 AWG Stranded Conductors (7x28) • Tinned Copper • Conductors Cabled • 100% Enerfoil® + 85% Tinned Copper Braid Shield

Plenum • FEP Insulation • Red FEP Jacket																	
	Non-conduit	100182	2	See Chart 2	152.4 304.8	500 [†] 1000 [†]	5.9 13.0 24.0	.15	.006	.36	.014	3.86	.152	85	26	167	51
		100183	4	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	2.3 5.1 8.2 18.0 24.0	.15	.006	.36	.014	4.52	.178	85	26	167	51
		100184	6	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	2.8 6.2 10.7 23.5 48.0	.15	.006	.36	.014	5.26	.207	85	26	167	51
		100185	9	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	3.7 8.2 14.5 32.0 63.0	.15	.006	.36	.014	6.05	.238	85	26	167	51
		100186	12	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	3.5 7.8 16.6 36.5 67.0	.15	.006	.36	.014	6.73	.265	85	26	167	51

18 AWG Stranded Conductors (19x30) • Tinned Copper • Conductors Cabled • 100% Enerfoil + 85% Tinned Copper Braid Shield

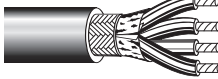
Plenum • FEP Insulation • Red FEP Jacket																	
	Non-conduit	100187	2	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	2.1 4.6 6.8 15.0 29.0	.18	.007	.36	.014	4.45	.175	108	33	197	60
		100188	3	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	2.5 5.4 8.9 19.5 40.0	.18	.007	.36	.014	4.67	.184	108	108	197	60
		100189	4	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	2.8 6.2 10.7 23.5 48.0	.18	.007	.36	.014	5.05	.199	108	33	197	60
		100190	6	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	3.7 8.1 14.3 31.5 62.0	.18	.007	.36	.014	5.94	.234	108	33	197	60
		100191	9	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	4.5 9.8 21.1 46.5 88.0	.18	.007	.36	.015	7.44	.293	108	33	197	60
		100192	12	See Chart 2	30.5 152.4 304.8	100 500 [†] 1000 [†]	5.4 11.9 25.2 55.5 109.0	.18	.007	.36	.015	7.82	.308	108	33	197	60

[†] Spools are one piece, but length may vary $\pm 10\%$ from length shown.

Plenum-Rated

Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance				
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	*	*	**	**	
														pF/m	pF/Ft.	pF/m	pF/Ft.	
16 AWG Stranded Conductors (19x29) • Tinned Copper • Conductors Cabled • 100% Enerfoil® + 85% Tinned Copper Braid Shield																		
Plenum • FEP Insulation • Red FEP Jacket																		
	Non-conduit	100193	2	See Chart 2	30.5	100	2.3	5.1	.18	.007	.36	.014	4.72	.196	115	35	207	63
					152.4	500†	9.1	20.0										
					304.8	1000†	18.6	41.0										
	100194	3	See Chart 2	152.4	500†	11.4	25.0	.18	.007	.36	.014	5.23	.206	115	35	207	63	
				304.8	1000†	23.2	51.0											
	100195	4	See Chart 2	30.5	100	3.6	8.0	.18	.007	.36	.014	5.66	.223	115	35	207	63	
				152.4	500†	14.1	31.0											
				304.8	1000†	27.7	61.0											
	100196	6	See Chart 2	30.5	100	4.4	9.6	.18	.007	.36	.014	6.73	.265	115	35	207	63	
152.4				500†	20.7	45.5												
304.8				1000†	39.2	86.0												
100197	9	See Chart 2	30.5	100	6.0	13.1	.18	.007	.36	.014	7.80	.307	115	35	207	63		
			152.4	500†	28.0	61.5												
			304.8	1000†	53.6	118.0												
100198	12	See Chart 2	30.5	100	7.5	16.4	.18	.007	.36	.014	8.74	.344	115	35	207	63		
			152.4	500†	35.0	77.0												
			304.8	1000†	68.6	151.0												
100199	15	See Chart 2	30.5	100	8.9	19.6	.18	.007	.36	.014	10.34	.407	115	35	207	63		
			152.4	500†	42.5	93.5												
			304.8	1000†	85.0	187.0												
100200	19	See Chart 2	30.5	100	10.7	23.5	.18	.007	.36	.014	10.24	.403	115	35	207	63		
			152.4	500†	51.4	113.0												
			304.8	1000†	102.7	226.0												

[†] Spools are one piece, but length may vary $\pm 10\%$ from length shown.

High-Temperature Unshielded Control and Instrumentation Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

20 AWG Stranded Conductors (7x28) • Tinned Copper • Conductors Cabled

Enertef® Insulation • Clear Enertef Jacket

300V RMS 150°C VW-1	100201	2	Black, Red	30.5 304.8	100 1000†	1.7 10.9	3.8 24.0	.38	.015	.51	.020	4.70	.185				
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16 AWG Stranded Conductors (19x29) • Tinned Copper • Conductors Cabled

Enertef Insulation • Clear Enertef Jacket

300V RMS 150°C VW-1	100202	2	Black, Red	152.4 304.8	500† 1000†	7.7 15.9	17.0 35.0	.38	.015	.48	.019	5.36	.211				
	100203	2	See Chart 2	152.4 304.8	500† 1000†	7.3 15.0	16.0 33.0	.38	.015	.48	.019	5.36	.211				
	100204	3	See Chart 2	152.4 304.8	500† 1000†	10.0 19.5	22.0 43.0	.38	.015	.48	.019	5.76	.223				
	100205	5	See Chart 2	152.4 304.8	500† 1000†	16.6 30.9	36.5 68.0	.38	.015	.48	.019	6.81	.268				
	100206	7	See Chart 2	30.5 304.8	100 1000†	5.2 47.7	11.5 105.0	.38	.015	.61	.024	7.70	.303				
	100207	9	See Chart 2	152.4 304.8	500† 1000†	26.8 52.7	59.0 116.0	.38	.015	.61	.024	8.99	.354				

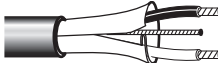
† Spools are one piece, but length may vary $\pm 10\%$ from length shown.

Enertef insulated and jacketed cables are particularly well suited for harsh environments due to outstanding mechanical toughness of the material, as well as its high-temperature and radiation resistant characteristics. Enertef cables are used extensively in chemical plants, nuclear plants, and fossil fuel power plants. Typical applications are data recording, communication, telemetry, and monitoring pressure or material flow. Enertef is an Innovable trademark.

High-Temperature

Overall Enerfoil® Shield

Control and Instrumentation Cables

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.
22 AWG Stranded (7x30) • Tinned Copper • Conductors Cabled • 22 AWG (7x30) Stranded TC Drain Wire • 100% Special Enerfoil Shield																	
FEP Insulation • Red Silicone Rubber Jacket • Noise Reducing Tape																	
Jacket working voltage 2000V DC, shield to ground VW-1	100208	2	Black, White	30.5 152.4	100 500 [†]	1.6 6.6 7.5	3.6 14.5 16.5	.38	.015	.76	.030	5.05	.199	72	22	131	40
																	
70°C (min.) to 150°C (max.) operating temperature.																	
Jacket working voltage 2000V DC, shield to ground VW-1	100209	3	Black, Red, White	30.5 152.4	100 500 [†]	1.8 8.2	3.9 18.0	.38	.015	.79	.031	5.28	.208	72	22	131	40
																	
	100210	4	Black, White, Red, Green	30.5 152.4	100 500 [†]	2.0 8.9	4.4 19.5	.38	.015	.76	.030	5.51	.217	72	22	131	40
70°C (min.) to 150°C (max.) operating temperature.																	
20 AWG Stranded (7x28) • Tinned Copper • Twisted Pair • 20 AWG (7x28) Stranded TC Drain Wire • 100% Special Enerfoil Shield																	
FEP Insulation • Yellow Silicone Rubber Jacket • Noise Reducing Tape																	
Jacket working voltage 2000V DC, shield to ground VW-1	100211	2	Black, Red	30.5 152.4	100 [†] 500 [†]	2.1 8.6	4.6 18.5 19.0	.51	.020	.76	.030	6.15	.242	72	22	131	40
																	
70°C (min.) to 150°C (max.) operating temperature.																	
20 AWG Stranded Conductors (7x28) • Tinned Copper • Conductors Cabled • Drain Wire • Overall 100% Enerfoil Aluminum-Enerton® Shield																	
Enertef® Insulation • Clear Enertef Jacket																	
300V RMS 150°C VW-1	100212	2	Black, Red	152.4 304.8	500 [†] 1000 [†]	6.6 13.6	14.5 30.0	.38	.015	.51	.020	4.62	.182				
																	
300V RMS 150°C VW-1	100213	3	Black, Red, Green	30.5 304.8	100 1000 [†]	2.1 14.5	4.6 32.0	.38	.015	.51	.020	4.90	.193				
																	
16 AWG Stranded Conductors (19x29) • Tinned Copper • Conductors Cabled • Drain Wire • Overall 100% Enerfoil Aluminum-Enerton Shield																	
Enertef Insulation • Clear Enertef Jacket																	
300V RMS 150°C VW-1	100214	2	Black, Red	30.5 152.4 304.8	100 500 [†] 1000 [†]	2.5 8.6 17.7	5.6 19.0 39.0	.51	.020	.51	.020	5.33	.210				
																	
300V RMS 150°C VW-1	100215	3	Black, Red, Green	152.4 304.8	500 [†] 1000 [†]	11.1 22.3	24.5 49.0	.51	.020	.51	.020	5.66	.223				
																	

[†] Spools and/or UnRoll® cartons are one piece, but length may vary ±10% for spools and ±5% for UnRoll from length shown. • Enertef and Enertron are Innovcable trademarks.

High-Temperature

Overall Braid Shield - Control and Instrumentation Cables

MIL-W-16878/4 (Type E) - Individual Conductors

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

26 AWG Stranded Conductors (7x34) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

Extruded TFE Enerflon® Insulation • White TFE Enerflon Tape-wrapped Jacket

	100216	1	White	152.4 304.8	500 [†] 1000 [†]	1.8 3.6	4.0 8.0	.23	.009	.25	.010	1.91	.075			146	44.6
	100217	2	White, Black	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	0.9 3.4 5.9	2.0 7.5 13.0	.23	.009	.25	.010	2.74	.108	68	20.8	116	35.5
	100218	3	White, Black, Red	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.1 7.7	2.4 17.0	.23	.009	.25	.010	3.10	.122	62	18.8	103	31.4
	100219	4	White, Black, Red, Green	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.2 4.3 8.6	2.6 9.5 19.0	.23	.009	.25	.010	3.33	.131	61	18.5	100	30.5

MIL-Spec MIL-W-16878/4 (Type E).

24 AWG Stranded Conductors (19x36) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

Extruded TFE Enerflon Insulation • White TFE Enerflon Tape-wrapped Jacket

	100220	1	White	152.4 304.8	500 [†] 1000 [†]	2.0 3.6	4.5 8.0	.25	.010	.25	.010	2.08	.082			151	46
	100221	2	White, Black	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.0 3.4 7.3	2.3 7.5 16.0	.25	.010	.25	.010	3.25	.128	87	26.5	139	42.4
	100222	3	White, Black, Red	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.2 4.5 9.1	2.7 152.4 20.0	.25	.010	.25	.010	3.40	.134	72	21.9	121	36.8
	100223	4	White, Black, Red, Green	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.4 5.5 10.9	3.1 12.0 24.0	.25	.010	.25	.010	3.70	.146	72	21.9	121	36.8

Complies with MIL-W-16878/4 (Type E) except stranding.

22 AWG Stranded Conductors (19x34) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

Extruded TFE Enerflon Insulation • White TFE Enerflon Tape-wrapped Jacket

	100224	1	White	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	0.5 2.5 4.5	1.1 5.5 10.0	.25	.010	.25	.010	2.21	.087			190	57.9
	100225	2	White, Black	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.2 4.3 8.6	2.6 9.5 19.0	.25	.010	.25	.010	3.56	.140	98	29.9	161	49.2
	100226	3	White, Black, Red	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.1 5.5 11.4	2.5 12.0 25.0	.25	.010	.25	.010	3.73	.147	90	27.4	150	45.7
	100227	4	White, Black, Red, Green	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.6 6.6 13.2	3.6 14.5 29.0	.25	.010	.25	.010	4.06	.160	90	27.4	150	45.7

Complies with MIL-W-16878/4 (Type E) except stranding.

[†] Spools may contain more than one piece. Length may vary ±10% from length shown.

High-Temperature

Overall Braid Shield - Control and Instrumentation Cables

MIL-W-16878/4 (Type E) - Individual Conductors

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

20 AWG Stranded Conductors (19x32) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

Extruded TFE Enerflon® Insulation • White TFE Enerflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	100228	1	White	30.5 304.8	100 [†] 1000 [†]	0.6 4.5	1.3 10.0	.25 .010	.25 .010	.25 .010	.25 .010	2.44 .096				226	69
	100229	2	White, Black	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.4 5.5 10.9	3.1 12.0 24.0	.25 .010	.25 .010	.25 .010	.25 .010	4.01 .158		104	31.7	167	51
	100230	3	White, Black, Red	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.4 7.5 14.1	3.0 16.5 31.0	.25 .010	.25 .010	.25 .010	.25 .010	4.24 .167		104	31.7	167	51
	100231	4	White, Black, Red, Green	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	2.1 9.1 17.3	4.7 20.0 38.0	.25 .010	.25 .010	.25 .010	.25 .010	4.62 .182		104	31.7	167	51

MIL-Spec MIL-W-16878/4 (Type E) except stranding.

18 AWG Stranded Conductors (19x30) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

Extruded TFE Enerflon Insulation • White TFE Enerflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	100232	1	White	304.8	1000 [†]	7.7	17.0	.28 .011	.25 .010	.25 .010	.25 .010	2.79 .110				235	71.5
	100233	2	White, Black	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	1.8 7.3 14.1	3.9 16.0 31.0	.28 .011	.25 .010	.25 .010	.25 .010	4.65 .183		102	31	174	52.8
	100234	3	White, Black, Red	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	2.2 9.5 20.0	4.9 21.0 44.0	.28 .011	.25 .010	.25 .010	.25 .010	4.78 .188		102	31	174	52.8
	100235	4	White, Black, Red, Green	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	2.7 12.0 24.5	5.9 26.5 54.0	.28 .011	.25 .010	.25 .010	.25 .010	5.23 .206		102	31	174	52.8

Complies with MIL-W-16878/4 (Type E) except stranding.

16 AWG Stranded Conductors (19x29) • Silver-plated Copper • Cabled and Color-coded • 90% Silver-plated Copper Braid Shield

Extruded TFE Enerflon Insulation • White TFE Enerflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	100236	1	White	152.4 304.8	500 [†] 1000 [†]	5.0 9.5	11.0 21.0	.30 .012	.25 .010	.25 .010	.25 .010	2.97 .117				238	72.5
	100237	2	White, Black	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	2.0 8.2 15.9	4.3 18.0 35.0	.30 .012	.25 .010	.25 .010	.25 .010	4.62 .192		118	36	197	60
	100238	3	White, Black, Red	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	3.1 11.4 23.2	6.8 25.0 51.0	.30 .012	.25 .010	.25 .010	.25 .010	5.16 .203		101	30.7	174	53
	100239	4	White, Black, Red, Green	30.5 152.4 304.8	100 [†] 500 [†] 1000 [†]	3.3 14.1 27.7	7.3 31.0 61.0	.30 .012	.25 .010	.25 .010	.25 .010	5.66 .223		99	30.2	167	50.8

Complies with MIL-W-16878/4 (Type E) except stranding.

[†] Spools may contain more than one piece. Length may vary ±10% from length shown.

Fire Alarm

Power-Limited Fire Protective Signaling Circuit Cables

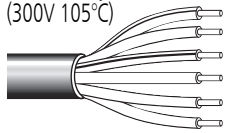
Subject 1424 (NEC Article 760, Type FPLR)

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

22 AWG Solid Conductors • Tinned Copper • Conductors Cabled

PVC Insulation • Black PVC Jacket

UL AWM Style 2464 (300V 105°C)	100240	6	See Chart 1	U-152.4 U-304.8	U-500 U-1000	8.2 16.4	18.0 36.0	.33	.013	.99	.039	5.94	.234				
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18 AWG Solid Conductors • Bare Copper

PVC Insulation • Red PVC Jacket

UL AWM Style 2464 (300V 105°C)	100241	2	Black, Red	U-152.4 U-304.8	U-500 U-1000	6.6 12.8	14.5 28.0	.43	.017	.94	.037	5.79	.228				
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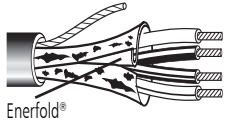
18 AWG Solid Conductors • Bare Copper • Conductors Cabled • Overall 100% Enerfoil® Shield • 22 AWG Stranded Tinned Copper Drain Wire

PVC Insulation • Red PVC Jacket

UL AWM Style 2464 (300V 105°C)	100242	2	Black, Red	U-152.4 U-304.8	U-500 U-1000	7.5 14.6	16.5 32.0	.43	.017	.94	.037	5.87	.231				
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UL AWM Style 2464 (300V 105°C)	100243	4	Black, Red, Yellow, Light Blue	U-152.4 304.8	U-500 1000	11.6 23.2	25.5 51.0	.43	.017	.94	.037	6.68	.263				
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16 AWG Solid Conductors • Bare Copper • Conductors Cabled

PVC Insulation • Red PVC Jacket

UL AWM Style 2464 (300V 105°C)	100244	2	Black, Red	U-152.4 U-304.8	U-500 U-1000	8.4 16.4	18.5 36.0	.46	.018	.94	.037	6.35	.250				
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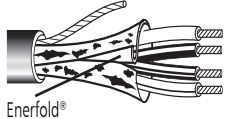
16 AWG Solid Conductors • Bare Copper • Conductors Cabled • Overall 100% Enerfoil Shield • 22 AWG Stranded Tinned Copper Drain Wire

PVC Insulation • Red PVC Jacket

UL AWM Style 2464 (300V 105°C)	100245	2	Black, Red	U-152.4 U-304.8	U-500 U-1000	9.3 18.7	20.5 41.0	.46	.018	.94	.037	6.43	.253				
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UL AWM Style 2464 (300V 105°C)	100246	4	Black, Red, Yellow, Light Blue	U-152.4 304.8	U-500 1000	16.4 32.8	36.0 72.0	.46	.018	1.07	.042	7.65	.301				
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Fire Alarm

Power-Limited Fire Protective Signaling Circuit Cables

Subject 1424 (NEC Article 760, Type FPLR)

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

14 AWG Solid Conductors • Bare Copper

PVC Insulation • Red PVC Jacket

300V 105°C	100247	2	Black, Red	U-152.4 304.8	U-500 1000	12.7 25.5	28.0 56.0	.56	.022	1.07	.042	7.77	.306				
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14 AWG Solid Conductors • Bare Copper • Conductors Cabled • 100% Enerfoil® Shield • 16 AWG Stranded Tinned Copper Drain Wire

PVC Insulation • Red PVC Jacket

300V 105°C	100248	2	Black, Red	U-152.4 304.8	U-500 1000	15.0 29.6	33.0 65.0	.56	.022	1.07	.042	7.85	.309				
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12 AWG Solid Conductors • Bare Copper

PVC Insulation • Red PVC Jacket

300V 105°C	100249	2	Black, Red	304.8	1000	34.2	75.0	.56	.022	1.07	.042	8.64	.340				
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12 AWG Solid Conductors • Bare Copper • Conductors Cabled • 100% Enerfoil Shield • 16 AWG Stranded Tinned Copper Drain Wire

PVC Insulation • Red PVC Jacket

300V 105°C	100250	2	Black, Red	304.8	1000	38.7	85.0	.56	.022	1.07	.042	8.71	.343				
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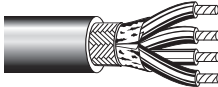
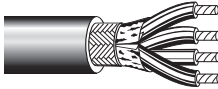


Enerfoil®

Plenum-Rated Fire Alarm

Power-Limited Fire Protective, Control and Instrumentation Cables

Subject 1424 (NEC Article 760, Type FPLP)

Description	Part No.	No. of Cond.	Color Code	Standard lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance				
				m	Ft.	m	Lbs.	mm	Inch	mm	Inch	mm	Inch	* pF/ m	* pF/ Ft.	** pF/ m	** pF/ Ft.	
14 AWG Stranded Conductors (7x22) • Tinned Copper • Conductors Cabled • 100% Enerfoil® + 85% Tinned Copper Braid Shield																		
Plenum • FEP Insulation • Red FEP Jacket																		
	200°C, Non-conduit	100251	2	See Chart 2	30.5	100	3.2	7.1	.41	.016	.38	.015	6.78	.267	98	30	171	52
					152.4	500 [†]	15.0	33.0										
					304.8	1000 [†]	27.4	60.0										
		100252	3	See Chart 2	152.4	500 [†]	20.1	44.0	.41	.016	.38	.015	7.21	.284	98	30	171	52
					304.8	1000 [†]	37.4	82.0										
		100253	4	See Chart 2	30.5	100	5.3	11.6	.41	.016	.38	.015	7.90	.311	98	30	171	52
					152.4	500 [†]	24.6	54.0										
					304.8	1000 [†]	46.5	102.0										
		100254	6	See Chart 2	30.5	100	7.2	15.9	.41	.016	.43	.017	9.55	.376	98	30	171	52
					152.4	500 [†]	34.0	74.5										
					304.8	1000 [†]	68.4	150.0										
12 AWG Stranded Conductors (7x20) • Tinned Copper • Conductors Cabled • 100% Enerfoil + 85% Tinned Copper Braid Shield																		
Plenum • FEP Insulation • Red FEP Jacket																		
	200°C, Non-conduit	100255	2	See Chart 2	30.5	100	4.3	9.3	.41	.016	.38	.015	7.70	.303	105	32	180	55
					152.4	500 [†]	19.4	42.5										
					304.8	1000 [†]	36.5	80.0										
		100256	3	See Chart 2	30.5	100	5.7	12.4	.41	.016	.38	.015	8.20	.323	105	32	180	55
					152.4	500 [†]	25.8	56.5										
					304.8	1000 [†]	50.6	111.0										
		100257	4	See Chart 2	30.5	100	7.1	15.6	.41	.016	.43	.017	9.12	.359	105	32	180	55
					152.4	500 [†]	33.3	73.0										
					304.8	1000 [†]	66.8	147.0										
		100258	6	See Chart 2	30.5	100	9.9	21.7	.41	.016	.43	.017	10.92	.430	105	32	180	55
					152.4	500 [†]	96.8	213.0										
					304.8	1000 [†]												

[†] Spools are one piece, but length may vary ± 10% from length shown.