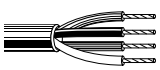
Unshielded

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

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Conductors Cabled													
PVC Insulation • Chrome PVC Jacket													
150V 80°C UL AWM Style 2576		NEC: CMG CEC: CMG FT4					0.76 mm 22 AWG (7x30) TC	0.060	1.52	Unshielded			
													
	8442	2 CDR*	100 U-500 500 U-1000 1000 † 10000	31 U-152 152 U-305 305 3048	2.4 8.2 7.5 15.0 15.0 150.4	1.1 3.7 3.4 6.8 6.8 68.2					0.170	4.32	Black, Red
	For Plenum version of 8442, see 88442 or 82442.												
	8443	3 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	2.6 9.5 9.5 18.1 18.1	1.2 4.3 4.3 8.2 8.2					0.172	4.37	Black, Red, Green
	8444	4 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.1 11.5 11.5 22.0 23.1	1.4 5.2 5.2 10.0 10.5					0.185	4.70	see chart 1 (Tech Info Section)
	For Plenum version of 8444, see 88444 or 82444.												
	8445	5 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	3.5 13.4 13.4 25.1 26.0	1.6 6.1 6.1 11.4 11.8					0.194	4.93	see chart 1 (Tech Info Section)
	9430	7 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	17.0 17.0 32.0 35.1	7.7 7.7 14.5 15.9					0.214	5.44	see chart 1 (Tech Info Section)
	9421	8 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	4.2 19.2 18.5 35.9 37.9	1.9 8.7 8.4 16.3 17.2					0.229	5.82	see chart 1 (Tech Info Section)
	9423	9 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	4.6 21.2 21.6 41.0 43.0	2.1 9.6 9.8 18.6 19.5					0.244	6.20	see chart 1 (Tech Info Section)
	8456	10 CDR	100 U-500 500 U-1000 1000	31 U-152 152 U-305 305	5.1 22.5 23.1 44.1 46.1	2.3 10.2 10.5 20.0 20.9					0.264	6.71	see chart 1 (Tech Info Section)
18 AWG • Stranded (19x30) 1.2 mm Tinned Copper • Conductors Cabled													
Plenum • FEP Insulation • Natural Flamarrest® Jacket													
Non-conduit	**82489**	NEC: CMP CEC: CMP FT6	† U-1000 † 1000	U-305 305	31.1 29.1	14.1 13.2	1.24 mm 18 AWG (19x30) TC	0.063	1.60	Unshielded	0.170	4.32	Black, White, Red, Green
													
4-Conductor													

TC = Tinned Copper • DCR = DC resistance
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel® from length shown.
* Twisted Pair

Overall Foil / Braid Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
24 AWG • Stranded Conductors (7x32) 0.6 mm Tinned Copper • Conductors Cabled • Overall **Beldfoil®** Shield + 85% Tinned Copper Braid																	
Plenum • FEP Insulation • Red FEP Jacket																	
300V RMS Non-conduit 		NEC: CMP CEC: CMP FT6					0.61 mm 24 AWG (7x32) TC	0.036	0.91	Overall Beldfoil® + Overall 85% TC Braid			–				see chart 2 (Tech Info Section)
	83503	3 CDR	† 500	152	9.5	4.3					0.135	3.43		CDR/CDR	20	66	
			† 1000	305	16.1	7.3								CDR/SCR	36	118	
	83504	4 CDR	100	31	3.5	1.6					0.144	3.66		CDR/CDR	20	66	
			† 500	152	10.1	4.6								CDR/SCR	36	118	
			† 1000	305	20.1	9.1											
	83506	6 CDR	† 500	152	13.2	6.0					0.165	4.19		CDR/CDR	20	66	
			† 1000	305	26.2	11.9								CDR/SCR	36	118	
22 AWG • Stranded Conductors (7x30) 0.8 mm Tinned Copper • Conductors Cabled • Overall **Beldfoil®** Shield + 85% Tinned Copper Braid																	
Plenum • FEP Insulation • Red FEP Jacket																	
300V RMS Non-conduit 		NEC: CMP CEC: CMP FT6					0.76 mm 22 AWG (7x30) TC	0.042	1.06	Overall Beldfoil® + Overall 85% TC Braid			–				see chart 2 (Tech Info Section)
	83552	2 CDR	† 500	152	8.2	3.7					0.141	3.58		CDR/CDR	23	75	
			† 1000	305	16.1	7.3								CDR/SCR	40	131	
	83553	3 CDR	100	31	3.5	1.6					0.148	3.76		CDR/CDR	23	75	
			† 500	152	11.5	5.2								CDR/SCR	40	131	
			† 1000	305	20.1	9.1											
	83554	4 CDR	100	31	4.0	1.8					0.159	4.04		CDR/CDR	23	75	
			† 500	152	12.6	5.7								CDR/SCR	40	131	
			† 1000	305	25.1	11.4											
	83556	6 CDR	100	31	5.3	2.4					0.183	4.65		CDR/CDR	23	75	
			† 500	152	16.5	7.5								CDR/SCR	40	131	
			† 1000	305	35.9	16.3											
	83559	9 CDR	100	31	6.8	3.1					0.209	5.31		CDR/CDR	23	75	
			† 500	152	23.1	10.5								CDR/SCR	40	131	
			† 1000	305	50.0	22.7											
	83562	12 CDR	† 500	152	28.7	13.0					0.234	5.94		CDR/CDR	23	75	
			† 1000	305	60.0	27.2								CDR/SCR	40	131	
	83569	19 CDR	100	31	9.7	4.4					0.269	6.83		CDR/CDR	23	75	
			† 500	152	44.1	20.0								CDR/SCR	40	131	
			† 1000	305	85.1	38.6											

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Spools are one piece, but length may vary ± 10% from length shown.

Unshielded

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 AWG • Stranded (16x30) 1.2 mm Tinned Copper • Twisted Pair *(continued)*													
PVC Insulation • Chrome PVC Jacket													
300V 80°C UL AWM Style 2464		NEC: CMG CEC: CMG FT4					1.20 mm 18 AWG (16x30) TC	0.076	1.92	Unshielded			see chart 3 (Tech Info Section)
	**8690**	3-Pair	100 U-500 500 1000	31 U-152 152 305	7.1 32.6 34.0 65.0	3.2 14.8 15.4 29.5					0.347	8.81	
	9157	4-Pair	100 500 1000	31 152 305	8.4 41.0 83.1	3.8 18.6 37.7					0.381	9.68	
	9159	5-Pair	500 1000	152 305	50.0 99.2	22.7 45.0					0.391	9.93	
18 AWG • Stranded (19x30) 1.2 mm Tinned Copper • Twisted Pair													
Plenum • FEP Insulation • Natural Flamarrest® Jacket													
300V RMS Non-conduit	**82740**	NEC: CMP CEC: CMP FT6	U-1000 † 1000	U-305 305	17.0 16.1	7.7 7.3	1.24 mm 18 AWG (19x30) TC	0.061	1.54	Unshielded	0.147	3.73	Black, Red
 1-Pair													
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair													
PVC Insulation • Chrome PVC Jacket													
300V 60°C UL AWM Style 2598	**8471**	NEC: CMG CEC: CMG FT4	U-500 500 U-1000 1000	U-152 152 U-305 305	20.9 20.1 41.0 43.0	9.5 9.1 18.6 19.5	1.47 mm 16 AWG (19x29) TC	0.104	2.63	Unshielded	0.274	6.96	Black, White
 1-Pair													
14 AWG • Stranded (41x30) 1.9 mm Tinned Copper • Twisted Pair													
PVC Insulation • Chrome PVC Jacket													
600V 90°C UL AWM Style 2587	**8473**	NEC: CL3 CEC: FAS 90 FT4	U-500 500 1000	U-152 152 305	29.1 30.6 58.2	13.2 13.9 26.4	1.85 mm 14 AWG (41x30) TC	0.135	3.43	Unshielded	0.340	8.64	Black, White
 1-Pair													
12 AWG • Stranded (65x30) 2.4 mm Tinned Copper • Twisted Pair													
PVC Insulation • Chrome PVC Jacket													
600V 90°C UL AWM Style 2587	**8477**	NEC: CL3R	U-500 500 1000	U-152 152 305	41.4 43.4 85.1	18.8 19.7 38.6	2.41 mm 12 AWG (65x30) TC	0.159	4.03	Unshielded	0.386	9.80	Black, White
 1-Pair													

TC = Tinned Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.

Overall Beldfoil® Shield

High-Temperature Control, Instrumentation Cables and Computer Cables for EIA RS-232 Applications

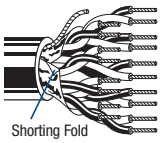
Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire *(continued)*

Semi-Rigid PVC Insulation • Chrome PVC Jacket

300V 80°C
UL AWM Style 2464
CSA AWM I A

NEC:
CMG
CEC:
CMG FT4



0.61 mm 24 AWG (7x32) TC | 0.044 | 1.12 | Overall Beldfoil® + Drain Wire (24 AWG TC) | | | 75 | 60%

see chart 3 (Tech Info Section)

9525	25-Pair		100	31	16.1	7.3					0.504	12.80			CDR/CDR	30	98	
			500	152	79.6	36.1									CDR/SCR	50	164	
			1000	305	155.0	70.3												
9550	50-Pair		100	31	32.0	14.5					0.709	18.00			CDR/CDR	30	98	
		†	500	152	153.9	69.8									CDR/SCR	50	164	
		†	1000	305	311.7	141.4												

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire

Plenum • FEP Insulation • Natural Flamarrest® Jacket

300V RMS

NEC:
CMP
CEC:
CMP FT6

0.61 mm 24 AWG (7x32) TC | 0.036 | 0.91 | Overall Beldfoil® + Drain Wire (24 AWG TC)

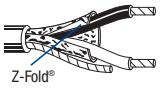
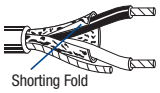
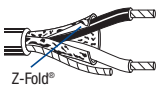
see chart 3 (Tech Info Section)

82641	1-Pair	††	U-1000	U-305	9.0	4.1					0.106	2.69			CDR/CDR	31	102	
		††	1000	305	7.9	3.6									CDR/SCR	59	194	
82502	2-Pair	††	U-500	U-152	7.9	3.6					0.162	4.11			CDR/CDR	25	82	
		††	U-1000	U-305	16.1	7.3									CDR/SCR	45	148	
		††	1000	305	14.1	6.4												
82503	3-Pair	††	U-1000	U-305	19.0	8.6					0.169	4.29			CDR/CDR	25	82	
		††	1000	305	18.1	8.2									CDR/SCR	45	148	
82504	4-Pair	††	U-1000	U-305	24.0	10.9					0.193	4.90			CDR/CDR	25	82	
		††	1000	305	26.0	11.8									CDR/SCR	45	148	
82505	5-Pair	††	U-1000	U-305	29.1	13.2					0.196	4.98			CDR/CDR	25	82	
		††	1000	305	30.9	14.0									CDR/SCR	45	148	
82506	6-Pair	††	U-500	U-152	17.6	8.0					0.209	5.31			CDR/CDR	25	82	
		††	U-1000	U-305	34.2	15.5									CDR/SCR	45	148	
		††	1000	305	35.1	15.9												
82509	9-Pair	††	1000	305	49.2	22.3					0.246	6.25			CDR/CDR	23	75	
															CDR/SCR	42	138	

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Spools are one piece, but length may vary 0% to +20% from length shown.
†† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel® from length shown.

Overall Beldfoil® Shield

Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
22 AWG • Solid 0.6 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 22 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2092	**8761**	NEC: CM CEC: CM	U-500 500 U-1000 1000 2000 5000 † 10000	U-152 152 U-305 305 610 1524 3048	9.0 9.0 17.0 18.1 35.9 90.2 170.4	4.1 4.1 7.7 8.2 16.3 40.9 77.3	0.64 mm 22 AWG Solid TC	0.057	1.46	Overall Beldfoil® + Drain Wire (22 AWG TC)	0.175	4.45	–	–	CDR/CDR CDR/SCR	24 47	79 154	Black, Clear
 Z-Fold®																		
1-Pair		For Plenum versions of 8761, see 88761, 87761 or 82761.																
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 22 AWG Tinned Copper Drain Wire																		
PVC Insulation • Beige PVC Jacket																		
300V 80°C UL AWM Style 2464	**9154**	NEC: CMG CEC: CMG FT4	U-500 500 U-1000 1000	U-152 152 U-305 305	11.5 12.1 22.0 23.1	5.2 5.5 10.0 10.5	0.96 mm 20 AWG (7x28) TC	0.066	1.68	Overall Beldfoil® + Drain Wire (22 AWG TC)	0.198	5.03	–	–	CDR/CDR CDR/SCR	60 100	197 328	Black, Red
 Z-Fold®																		
1-Pair																		
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2092	**8762**	NEC: CM CEC: CM	100 250 U-500 500 U-1000 1000 2000 10000	31 76 U-152 152 U-305 305 610 3048	3.3 6.2 12.1 12.1 23.1 23.1 46.1 240.5	1.5 2.8 5.5 5.5 10.5 10.5 20.9 109.1	0.96 mm 20 AWG (7x28) TC	0.070	1.78	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.204	5.18	–	–	CDR/CDR CDR/SCR	27 49	89 161	Black, Clear
 Shorting Fold																		
1-Pair																		
Polyethylene Insulation • Chrome PVC Jacket																		
300V 60°C UL AWM Style 2092	**9464**	NEC: CM CEC: CM	U-500 U-1000	U-152 U-305	17.0 32.0	7.7 14.5	0.96 mm 20 AWG (7x28) TC	0.070	1.78	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.214	5.44	–	–	CDR/CDR CDR/SCR	27 49	89 161	Black, Clear
																		
1-Pair		The jacket and shield are bonded so both can be removed with automatic stripping equipment. Drain wire is on the inside of foil shield.																
18 AWG • Stranded (19x30) 1.2 mm Tinned Copper • Twisted Pair • Overall **Beldfoil®** Shield • 20 AWG Tinned Copper Drain Wire																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS	**82760**	NEC: †† U-500 CMP †† U-1000 CEC: †† 1000 CMP FT6		U-152 U-305 305	11.9 22.0 20.9	5.4 10.0 9.5	1.24 mm 18 AWG (19x30) TC	0.063	1.60	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.150	3.81	–	–	CDR/CDR CDR/SCR	51 97	167 318	Black, Red
 Z-Fold®																		
1-Pair																		

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 460 m (1500 ft.).
†† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel® from length shown.

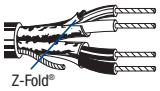
Individually Shielded

Audio, Control and Instrumentation Cables

22 AWG • Stranded (7x30) 0.8 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 24 AWG Tinned Copper Drain Wire

Polypropylene Insulation • Chrome PVC Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
300V RMS 60°C	**8723**	NEC: CM	100	31	2.2	1.0	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.160	4.06	45	66%	CDR/CDR	35	115	Red & Black, Green & White
		CEC: CM	500	152	9.9	4.5									CDR/SCR	62	203	
			U-500	U-152	10.6	4.8												
			U-1000	U-305	19.0	8.6												
			1.000	305	20.1	9.1												
			1640	500	32.8	14.9												
			U-2000	U-610	37.9	17.2												
			2000	610	40.1	18.2												
			3279	1000	65.7	29.8												
			5000	1524	95.2	43.2												
			10000	3049	200.4	90.9												



For halogen-free version see 8723NH.
2-Pair Pairs cabled on common axis to reduce diameter

22 AWG • Stranded (7x30) 0.8 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 22 AWG Tinned Copper Drain Wire

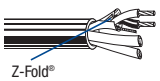
Polypropylene Insulation • Chrome PVC Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
300V 80°C UL AWM Style 2919		NEC: CM					0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)			50	66%				see chart 3 (Tech Info Section)
		CEC: CM																
	8777	3-Pair	100	31	4.6	2.1					0.273	6.93			CDR/CDR	30	98	
			250	76	9.9	4.5									CDR/SCR	55	180	
			U-500	U-152	20.9	9.5												
			500	152	20.1	9.1												
			U-1000	U-305	41.0	18.6												
			1000	305	44.1	20.0												
			1640	500	70.5	32.0												
			3279	1000	141.1	64.0												
			5000	1524	215.2	97.6												
			† 10000	3049	460.3	208.8												
		For halogen-free version see 8777NH.																
	8778	6-Pair	100	31	8.4	3.8					0.362	9.19			CDR/CDR	30	98	
			250	76	19.0	8.6									CDR/SCR	55	180	
			500	152	43.0	19.5												
			1000	305	83.1	37.7												
		For halogen-free version see 8778NH.																
	8774	9-Pair	100	31	11.5	5.2					0.417	10.59			CDR/CDR	30	98	
			250	76	29.5	13.4									CDR/SCR	55	180	
			500	152	57.5	26.1												
			1000	305	113.1	51.3												

22 AWG • Stranded (7x30) 0.8 mm TC • Twisted Pair • Each Pair Individually **Beldfoil®** Shielded • 22 AWG Tinned Copper Drain Wire

Plenum • FEP Insulation • Natural Flamarrest® Jacket

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
300V RMS	**82777**	NEC: CMP	†† U-500	U-152	19.6	8.9	0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.237	6.02	46	62%	CDR/CDR	35	115	see chart 3 (Tech Info Section)
			U-1000	U-305	38.1	17.3									CDR/SCR	76	249	
		CEC: CMP FT6	†† 1000	305	39.0	17.7												



3-Pair

TC = Tinned Copper • DCR = DC resistance • SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors
† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 457 m (1500 ft.).
†† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel® from length show.

VideoTwist® 6 U/UTP Cables for RGB Video

TIA/EIA-568-B.2-1, Category 6,
Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
NanoSkew™ • Category 6 • 23 AWG Bonded-Pairs • Solid 0.6 mm Bare Copper • **Skew 10.0 ns/100 m** Nominal • Rip Cord																			
Polyolefin Insulation • Blue PVC Jacket																			
300V RMS	**7989R**	NEC	1000	305	32.0	14.5	0.57 mm	0.042	1.06	Bonded-Pair	0.365	9.27	1	2.0	72.3	70.3	64.8	100 ± 15	20.0
		CMR	1640	500	52.5	23.8	23 AWG			Unshielded	x	x	4	3.8	63.3	59.5	52.7	100 ± 15	23.0
		CEC					Solid BC			U/UTP	0.165	4.19	8	5.3	58.8	53.4	46.7	100 ± 15	24.5
		CMR FT4											10	6.0	57.3	51.3	44.8	100 ± 15	25.0
													16	7.6	54.3	46.7	40.7	100 ± 15	25.0
													20	8.5	52.8	44.3	38.7	100 ± 15	25.0
													25	9.5	51.4	41.8	36.8	100 ± 15	24.3
													31.25	10.7	49.9	39.2	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
													100	19.8	42.3	22.5	24.8	100 ± 15	20.1
													155	25.2	39.5	14.3	20.9	100 ± 22	18.8
													200	29.0	37.8	8.8	18.7	100 ± 22	18.0
													250	32.8	36.3	3.5	16.8	100 ± 32	17.3
Rip Cord																			
4-Pair MediaTwist™ Construction																			
			Color Code: see chart below																
Plenum • Polyolefin Insulation • Blue PVC Jacket																			
300V RMS	**7989P**	NEC	1000	305	32.0	14.5	0.57 mm	0.039	1.00	Bonded-Pair	0.365	9.27							see above
		CMR	1640	500	52.5	23.8	23 AWG			Unshielded	x	x							
		CEC					Solid BC			U/UTP	0.165	4.19							
		CMR FT4																	
Rip Cord																			
4-Pair MediaTwist™ Construction																			
			Color Code: see chart below																

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

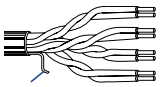
Get the Bonded-Pairs Cable Preparation Tool

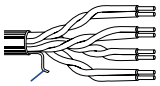
See page 15.37 for details.
(Part No. 1797B)

VideoTwist® 5e U/UTP Cables for RGB Video

TIA/EIA-568-B.2, Category 5e,
Bonded-Pair Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	Input Imp. (Ω)	Min. RL dB
Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Twisted Pair • Skew 9.0 ns/100 nom. • Rip Cord																			
Polypropylene Insulation • Green PVC Jacket																			
	7988R	NEC:	1000	305	22.0	10.0	0.51 mm	0.038	0.97	**Bonded-Pair**	0.204	5.18	1	2.0	65.3	60.3	60.8	100 ± 15	20.0
		CMR	1640	500	36.2	16.4	24 AWG			Unshielded			4	4.1	53.3	49.3	48.7	100 ± 15	23.0
		CEC:					Solid BC			U/UTP			10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CMG											16	8.2	44.3	36.0	36.7	100 ± 15	25.0
													31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
													62.5	17.0	35.4	18.4	24.8	100 ± 15	21.5
													100	22.0	32.3	10.3	20.8	100 ± 15	20.1
													200	32.4	27.8	1.0	14.7	100 ± 15	15.0
4-Pair		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.										
Plenum • FEP Insulation • Green Flamarrest® Jacket																			
	7988P	NEC:	1000	305	22.9	10.4	0.51 mm	0.036	0.91	**Bonded-Pair**	0.193	4.90							see above
		CMP	1640	500	37.7	17.1	24 AWG			Unshielded									
		CEC:					Solid BC			U/UTP									
		CMP																	
4-Pair		Color Code: see chart below								Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals.										





BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.
(Part No. 1797B)

IEEE 802.3, ISO/IEC 8802.3 10Base2 and 10Base5

Trunk Cables – Thinnet and Thicknet

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
Thinnet 10Base2 • 20 AWG • Stranded (19x32) 0.9 mm Tinned Copper • **Duobond® II** • 93% Tinned Copper Braid																			
Ethernet • Foam HDPE Insulation • Grey PVC Jacket																			
30V 60°C UL AWM Style 1354	**9907**	NEC: CL2, CM CEC: CM	500 U-1000 1000 1640 2500 3280	152 U-305 305 500 762 1000	12.6 25.1 25.1 41.0 62.6 82.2	5.7 11.4 11.4 18.6 28.4 37.3	0.94 mm 20 AWG (19x32) TC 47.9 Ω/km* 28.9 Ω/km**	0.102	2.59	Duobond® II + 93% TC 19.0 Ω/km***	0.185	4.70	50	80%	25.4	83.3	1 10 50 100 200 400 700 900 1000	0.4 1.3 2.9 4.2 6.1 8.9 12.1 13.9 14.8	1.4 4.3 9.5 13.8 20.0 29.2 39.7 45.6 48.6
DEC Part No. 17-01248-00 For Plenum version of 9907, see 89907 or 82907.																			
Plenum • Ethernet • Foam FEP Insulation • Natural Flamarrest® Jacket																			
300V 75°C	**82907**	NEC: CL2P CMP CEC: CMP	† 500 U-1000 † 1000 † 2500	152 U-305 305 762	12.6 23.1 24.0 57.5	5.7 10.5 10.9 26.1	0.94 mm 20 AWG (19x32) TC 47.9 Ω/km* 28.9 Ω/km**	0.095	2.41	Duobond® II + 93% TC 19.0 Ω/km***	0.160	4.06	50	80%	25.4	83.3	1 10 50 100 200 400 700 900 1000	0.4 1.3 2.9 4.2 6.1 9.2 12.9 15.0 16.0	1.4 4.3 9.5 13.8 20.0 30.2 42.3 49.2 52.5
Plenum • Ethernet • Foam FEP Insulation • Grey Fluorocopolymer Jacket																			
300V 150°C	**89907**	NEC: CL2, CM CEC: CM	† 500 † 1000 † 2500	152 305 762	12.6 24.0 60.2	5.7 10.9 27.3	0.94 mm 20 AWG (19x32) TC 47.9 Ω/km* 28.9 Ω/km**	0.095	2.41	Duobond® II + 93% TC 19.0 Ω/km***	0.160	4.06	50	80%	25.4	83.3			see above
DEC Part No. 17-01246-00 Suitable for outdoor and direct burial applications.																			
Thinnet 10Base2 • 12 AWG • Solid 2.05 mm Bare Copper • **Duobond® IV** Quad Shield																			
Ethernet • Foam Polyethylene Insulation • Yellow PVC Jacket																			
30V 60°C UL AWM Style 1478	**9880**	NEC: CL2, CM CEC: CM	500 1000 1640	152 305 500	66.1 131.2 220.2	30.0 59.5 99.9	2.05 mm 12 AWG Solid BC 9.66 Ω/km* 4.66 Ω/km**	0.243	6.17	Duobond® IV Quad Shield 5.0 Ω/km***	0.405	10.29	50	78%	25.9	85.0	1 5 10 50 100 200 400 700 900 1000	0.2 0.4 0.5 1.2 1.7 2.6 3.9 5.5 6.5 6.9	0.6 1.2 1.7 3.9 5.6 8.4 12.8 18.1 21.3 22.6
DEC Part No. 17-00451-00 5.0 Ω/km For Plenum version of 9880, see 89880. Ring-band stripes marked every 2.5 meters to aid users in tap placement.																			
Plenum • Ethernet • Foam FEP Insulation • Orange Fluorocopolymer Jacket																			
150°C	**89880**	NEC: CL2P CMP CEC: CMP	† 1000 † 1640	305 500	134.3 225.1	60.9 102.1	2.05 mm 12 AWG Solid BC 9.66 Ω/km* 4.66 Ω/km**	0.245	6.22	Duobond® IV* Quad Shield 5.0 Ω/km***	0.375	9.53	50	78%	25.9	85.0	1 5 10 50 100 200 400 700 900 1000	0.2 0.4 0.5 1.1 1.6 2.5 3.8 5.6 6.8 7.2	0.6 1.2 1.7 3.8 5.4 8.0 12.5 18.4 22.3 23.6
DEC Part No. 17-00324-00 Suitable for outdoor and direct burial applications. Ring-band stripes marked every 2.5 meters to aid users in tap placement.																			

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

Duobond® II and Duobond® IV see technical information page 23.13.

Not RoHS compliant at time of printing.

IEEE 802.3, ISO/IEC 8802.3 10Base5

Transceiver Cables

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code
28 and 24 AWG • Stranded (7x36) 0.4 mm and (7x32) 0.6 mm Tinned Copper • **Beldfoil®** • Twisted Pair • **Overall Polyester Isolation Tape + Duofoil® + 92% Tinned Copper Braid** • 24 AWG Tinned Copper Drain Wire																		
Polypropylene Insulation • Light Grey PVC Jacket																		
30V 80°C UL AWM Style 2919	**9903**	NEC: CMG CEC: CMG	500 1000	152 305	21.6 43.0	9.8 19.5	3-Pair: 0.38 mm 28 AWG (7x36) TC	0.033	0.84	Individual Beldfoil® + Drain Wire (24 AWG TC) + Overall Duofoil® + 92% TC Braid	0.250	6.35	78*	66%	CDR/CDR	19.7 34.8	64.6 114.2	Grey/White, Yellow/Orange
							1-Pair: 0.61 mm 24 AWG (7x32) TC	0.044	1.12									Blue/Green, Black/Red
4-Pair * 3-Pair																		
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • Twisted Pair • **Overall Polyester Isolation Tape + Duofoil® + 95% Tinned Copper Braid** • 22 AWG Tinned Copper Drain Wire																		
Datalene® Insulation • Light Grey PVC Jacket																		
30V 80°C UL AWM Style 2919	**9901**	NEC: CL2, CM CEC: CM	500 1000	152 305	53.6 106.3	24.3 48.2	1.0 mm 20 AWG (7x28) TC	0.077	1.96	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.415	10.54	78	78%	CDR/CDR	16.7 29.5	54.8 96.8	Grey/White Yellow/Orange, Blue/Green, Black/Red
4-Pair			DEC Part No. 17-01320-00															
Plenum • FEP Teflon® Insulation ** **• Light Grey Fluorocopolymer (PVDF) Jacket**																		
150°C	**89901**	NEC: CMP CEC: CMP	** 500 ** 1000	152 305	51.6 104.3	23.4 47.3	1.0 mm 20 AWG (7x28) TC	0.060	1.52	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.370	9.40	78	78%	CDR/CDR	16.7 29.5	54.8 96.8	Grey/White Yellow/Orange, Blue/Green, Black/Red
4-Pair			DEC Part No. 17-01319-00 Suitable for outdoor and direct burial applications.															
20 and 22 AWG • Stranded (7x30) 0.8 mm and (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • Twisted Pair • **Overall Duofoil® + 95%Tinned Copper Braid** • 22 AWG Tinned Copper Drain Wire																		
Ethernet • Foam HDPE (22 AWG) and PVC (20 AWG) Insulation • Light Blue PVC Jacket																		
30V 80°C UL AWM Style 2919	**9891**	NEC: CM CEC: CM	100 500 1000	30 152 305	8.2 35.9 70.1	3.7 16.3 31.8	3-Pair: 0.76 mm 22 AWG (7x30) TC	0.063	1.59	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.315	8.00	78*	78%	CDR/CDR	16.7 29.5	54.8 96.8	Black/White Yellow/Orange, Blue/Green, Black/Red
							1-Pair: 0.96 mm 20 AWG (7x28) TC	0.062	1.57									Blue/Green, Grey/Violet
4-Pair * 3-Pair																		

TC = Tinned Copper • DCR = DC resistance • ** Foam FEP (data pairs) and solid FEP (power pair).
Duofoil® see technical information page 23.13. Teflon® is a DuPont trademark.

Not RoHS compliant at time of printing

Fiber*Express* Connectors
Epoxy Field Installable Connectors

A0390851 Optical Fiber Field Installable Epoxy connector, ST compatible

Epoxy Field Installable Connector

Epoxy field installable connectors are available as multimode and single-mode ST compatible and SC field installable connectors. They require heat-cured epoxy and polishing.
Both types have a ceramic ferrule. Each connector comes complete with all the parts necessary for termination of tight-buffered fibers as well as jacketed fibers. Parts include crimp sleeves, boots, cord adapter and dust cap.

Description	Belden Part Number	
	Multimode	Single-Mode
Fiber*Express* Connectors		
Epoxy Field Installable Connector		
ST Compatible	**A0390851**	**AX101412**
SC Simplex	**AX100919**	**AX101411**
SC Duplex	**AX100929**	**–**

These products are in the process of being assessed for RoHS compliance.
Please check our website for the most current RoHS status.

Pre-Connectorized Assemblies

Fiber*Express* Patch Cords

AX200057 Patch Cord Multimode SC Duplex (568SC)

Fiber*Express* Patch Cords

Fiber*Express* duplex patch cord assemblies are of the highest quality available. They are assembled and 100% optically tested in our factory prior to shipment. All patch cords are built with high-quality connectors and cables which guarantees superior performance and excellent reliability.

Description	Belden Part Number			
	Multimode, FX300, 62.5 µm	Multimode, FX600, 50.0 µm	Multimode, FX2000, 50.0 µm	Single-Mode SPC
Fiber*Express* Pre-Connectorized Assemblies				
Duplex Patch Cord				
ST-ST, 2 m (6 ft.)	**70102419**	**AX200341**	**AX200799**	**AX200090**
ST-ST, 3 m (10 ft.)	**70102420**	**AX200459**	**AX200795**	**AX200091**
ST-ST, 5 m (16 ft.)	**70102447**	**AX200413**	**AX200800**	**AX200092**
568SC-568SC, 2 m (6 ft.)	**AX200056**	**AX200084**	**AX200603**	**AX200094**
568SC-568SC, 3 m (10 ft.)	**AX200057**	**AX200082**	**AX200589**	**AX200095**
568SC-568SC, 5 m (16 ft.)	**AX200058**	**AX200280**	**AX200624**	**AX200096**
LC duplex-LC duplex, 2 m (6 ft.)	**AX200517**	**AX200527**	**AX200664**	**AX200507**
LC duplex-LC duplex, 3 m (10 ft.)	**AX200518**	**AX200528**	**AX200665**	**AX200508**
LC duplex-LC duplex, 5 m (16 ft.)	**AX200519**	**AX200529**	**AX200666**	**AX200509**
MTRJ-MTRJ, 2 m (6 ft.)	**AX101122**	**AX101139**	**AX200801**	**AX101157**
MTRJ-MTRJ, 3 m (10 ft.)	**AX101123**	**AX101138**	**AX200802**	**AX101156**
MTRJ-MTRJ, 5 m (16 ft.)	**AX101125**	**AX101137**	**AX200803**	**AX101155**
Hybrid Patch Cord				
568SC-ST, 3 m (10 ft.)	**AX200060**	**AX200196**	**AX200900**	**AX200421**
LC duplex-ST, 3 m (10 ft.)	**AX200699**	**AX200695**	**AX200809**	**AX200698**
LC duplex-568SC, 3 m (10 ft.)	**AX200580**	**AX200581**	**AX200668**	**AX200667**
MTRJ-ST, 3 m (10 ft.)	**AX101133**	**AX101151**	**AX200810**	**AX101166**
MTRJ-568SC, 3 m (10 ft.)	**AX101128**	**AX101143**	**AX200797**	**AX101161**
Single-Ended (pigtails)				
ST-open, 2 m (6 ft.)	**70100390**	**AX200458**	**AX200811**	**AX200097**
SC-open, 2 m (6 ft.)	**70101714**	**AX200192**	**AX200653**	**AX200098**
LC-open, 2 m (6 ft.)	**AX200657**	**AX200658**	**AX200660**	**AX200659**
MTRJ (m)-open, 3 m (10 ft.)	**AX101366**	**AX101367**	**AX200812**	**AX101368**

Also available as Simplex Patch Cords or custom assemblies, please contact customer service for more details.
These products are in the process of being assessed for RoHS compliance. Please check our website for the most current RoHS status.

Industrial Data Solutions® – Industrial Twinax

Blue Hose® Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 76% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire																				
Plenum • FEP Insulation • Blue FEP Jacket																				
300V 200°C High Temperature	**89463**	NEC: CMP CL2P CEC: CMP FT6	1000 2500	305 762	34.0 90.2	15.4 40.9	0.96 mm 20 AWG (7x28) TC	0.073	1.85	Overall Beldfoil® + Overall 76% TC Braid + Drain Wire (20 AWG TC)	0.203	5.16	78	66%	19.7	64.6	1 10 50 100 200 400	0.6 2.1 5.0 7.5 11.0 16.0	2.0 6.9 16.4 24.6 36.1 52.5
 Z-Fold®																				
			Color Code: Clear, Blue							Allen-Bradley P/N 1770-CD										
20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • 55% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire																				
Polyethylene Insulation • Blue PVC Inner Jacket • Aluminum Interlocked Armor • Blue Sunlight-Resistant PVC Outer Jacket																				
300V 60°C Aluminum Armored	**129463**	NEC: CM CL2 CEC: CM CMG FT4 HLBCD (Haz Loc)	1000 6000	305 1829	122.4 925.9	55.5 420.0	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	*0.238 **0.563	*6.05 **14.30	78	66%	19.7	64.6	see above			
																				
* Over Armor ** Under Armor			Color Code: Clear, Blue							Allen-Bradley P/N 1770-CD										
Polyethylene Insulation • Blue PVC Inner Jacket • Steel Armor • Blue Sunlight-Resistant PVC Outer Jacket																				
300V 60°C Steel Armored	**139463**	NEC: CM CL2 CEC: CM CMG FT4 HLBCD (Haz Loc)	1000 6000	305 1829	220.5 1491.2	100.0 676.4	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	*0.238 **0.563	*6.05 **14.30	78	66%	19.7	64.6	see above			
																				
* Over Armor ** Under Armor			Color Code: Clear, Blue							Allen-Bradley P/N 1770-CD										
Polyethylene Insulation • Blue PVC Inner Jacket • Continuously Corrugated Aluminum Armor • Blue Sunlight-Resistant PVC Outer Jacket																				
300V 60°C Continuously Armored	**189463**	NEC: PLTC	2000	610	258.2	117.1	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	*0.238 **0.500	*6.05 **12.70	78	66%	19.7	64.6	see above			
																				
* Over Armor ** Under Armor			Color Code: Clear, Blue							Allen-Bradley P/N 1770-CD										

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® – Industrial Twinax

Twinaxial Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
22 AWG • Stranded (19x34) 0.8 mm Tinned Copper • **Duofoil®** • 22 AWG Tinned Copper Drain Wire																			
Datalene® Insulation • Black PVC Jacket																			
30V 60°C UL AWM Style 2668	**9182**	NEC: CL2X CMX CEC: CMX	U-500 500 1000	U-152 152 305	22.5 22.9 44.1	10.2 10.4 20.0	0.78 mm 22 AWG (19x34) TC	0.137	3.49	Overall Duofoil® + Drain Wire (22 AWG TC)	0.345	8.76	150	78%	8.8	28.9	1 10 50 100 200 400	0.4 1.2 2.7 4.3 6.2 8.8	1.3 3.9 8.9 14.1 20.3 28.9
																			
VW-1																			
			Color Code: Black, Yellow							Dual version: YR41609 CPE jacket optional.									
Datalene® Insulation • Black FRNC/LSNH Jacket																			
300V 80°C	**9182NH**	IEC 332-1 BS 7655	1000 1640 3280	305 500 1000	50.3 80.0 150.1	22.8 36.3 68.1	0.78 mm 22 AWG (19x34) TC	0.136	3.45	Overall Duofoil® + Drain Wire (22 AWG TC)	0.346	8.80	150	78%	8.8	28.9	1 5 10 20 50 100 200 400	0.4 0.9 1.2 1.7 2.7 4.3 6.2 8.8	1.3 2.8 3.9 5.6 8.9 14.1 20.3 28.9
																			
			Color Code: Black, Yellow																
Plenum • Foam FEP Teflon® Insulation • Black FEP Teflon® Jacket																			
	89182	NEC: CMP CL2P CEC: CMP FT6	100 † 500 † 1000	31 152 305	6.4 28.0 53.1	2.9 12.7 24.1	0.78 mm 22 AWG (19x34) TC	0.139	3.53	Overall Duofoil® + Drain Wire (22 AWG TC)	0.307	7.80	150	78%	8.8	28.9	1 10 50 100 200 400	0.4 1.2 2.7 4.3 6.2 8.8	1.3 3.9 8.9 14.1 20.3 28.9
																			
			Color Code: Black, Yellow																

TC = Tinned Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.

Duofoil® see technical information page 23.13.

Teflon® is a DuPont trademark.

Industrial Data Solutions® – Industrial Data

LonWorks Cables

INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair													
Polyethylene Insulation • Chrome FRNC/LSNH Jacket													
Part 1	**8471NH**	IEC 60332	1000 1640 3280	305 500 1000	60.5 66.1 132.3	27.5 30.0 60.0	1.47 mm 16 AWG (19x29) TC	0.105	2.67	Unshielded	0.280	7.10	Black, White
 1-Pair													
Polyethylene Insulation • FRNC/LSNH Inner Jacket • Steel Wire Armor • Chrome FRNC/LSNH Outer Jacket													
Part 1	**8471LS**	IEC 60332	1000 1640 3280	305 500 1000	248.9 407.9 815.7	112.9 185.0 370.0	1.47 mm 16 AWG (19x29) TC	0.032	0.81	Unshielded	0.413	10.50	Black, White
 1-Pair													
Tefzel® Insulation • Clear Tefzel® Jacket													
300V RMS 80° VW-1	**85102**		500 1000	152 305	20.1 33.1	9.1 15.0	1.47 mm 16 AWG (19x29) TC	0.015	0.38	Unshielded	0.211	5.36	Black, White
 1-Pair													
16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 18 AWG Tinned Copper Drain Wire													
Polyethylene Insulation • Chrome PVC Jacket													
300V RMS 80° UL AWM Style 20253	**8719**	NEC: CM CL2 CEC: CM	U-500 500 U-1000 1000 2000 5000 10000	U-152 152 U-305 305 610 1524 3049	24.5 24.5 47.2 49.2 100.3 245.6 431.0	11.1 11.1 21.4 22.3 45.5 111.4 195.5	1.47 mm 16 AWG (19x29) TC	0.032	0.81	Overall Beldfoil® + Drain Wire (18 AWG TC)	0.313	7.95	Black, Clear
 1-Pair													

TC = Tinned Copper • DCR = DC resistance

Tefzel® is a DuPont trademark.

Industrial Data Solutions® – Interconnect Cables

Shielded Twisted Pair Cables

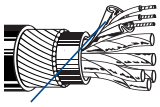
INDUSTRIALTUFF™

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Color Code

22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 22 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket • Color Coded Foils (Red, Green, Blue)

300V 80°C	**8777LS**	IEC 332-3C BS 7655	1640 3280	500 1000	290.3 712.5	131.7 323.2	0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	*0.276 **0.425	*7.00 **10.80	50	66%	CDR/CDR CDR/SCR	30.0 55.0	98.4 180.4	Red, Black Green, White Green, Black



Z-Fold®

3-Pair

* Under Armor
** Over Armor

22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 24 AWG Tinned Copper Drain Wire

Polypropylene Insulation • Chrome PVC Jacket

300V RMS 60°C	**8723**	NEC: CM CEC: CM	100 U-500 500 U-1000 1000 1640 U-2000 2000 3280 5000 10000	31 U-152 152 U-305 305 500 U-610 610 1000 1524 3049	2.2 10.6 9.9 20.1 20.1 32.8 40.1 40.1 65.7 95.0 200.4	1.0 4.8 4.5 9.1 9.1 14.9 18.2 18.2 29.8 43.1 90.9	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.168	4.27	45	66%	CDR/CDR CDR/SCR	35.0 62.0	115.0 203.0	Red, Black Green, White

2-Pair

For Plenum version of 8723, see 88723, 87723 or 82723
Pairs cabled on common axis to reduce diameter.

Polypropylene Insulation • Chrome FRNC/LSNH Jacket

300V 80°C	**8723NH**	IEC 332-3C BS 7655	1000 1640 3280	305 500 1000	23.1 36.8 75.0	10.5 16.7 34.0	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.179	4.55	45	66%	CDR/CDR CDR/SCR	35.0 62.0	114.8 203.4	Red, Black Green, White

2-Pair

Pairs cabled on common axis to reduce diameter.

Polypropylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket

300V 80°C	**8723LS**	IEC 332-3C BS 7655	1640 3280	500 1000	168.7 350.1	76.5 158.8	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	*0.179 **0.346	*4.55 **8.80	45	66%	CDR/CDR CDR/SCR	35.0 62.0	114.8 203.4	Red, Black Green, White

2-Pair

* Under Armor
** Over Armor

Plenum • FEP Insulation • Red FEP Jacket

300V RMS Non-conduit	**88723**	NEC: CMP CEC: CMP FT6	100 500 1000	31 152 305	3.3 11.0 20.9	1.5 5.0 9.5	0.76 mm 22 AWG (7x30) TC	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.148	3.76	40	69%	CDR/CDR CDR/SCR	35.0 67.0	115.0 220.0	Red, Black Green, White

Z-Fold®

2-Pair

TC = Tinned Copper • DCR = DC resistance