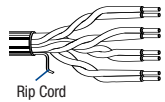


Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables
Heavy Duty Sunlight- and Oil-Resistant Jackets



De-scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			Input Imp. (Ω)	Min. RL dB
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m		
Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Twisted Pairs • Rip Cord																			
Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black, Red or Teal)																			
	7923A	NEC: 1000 CMR CMX-Outdoor CEC: CMR FT4	1000 2000	305 610	28.0 54.0	12.7 24.5	0.51 mm 24 AWG Solid BC	0.038	0.97	Bonded-Pair Unshielded	0.230	5.84	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	68.3 52.3 46.1 43.9 39.1 34.1 31.3 24.8 20.8 17.1 16.9 14.7 12.8 9.9	100 ± 12 100 ± 12 100 ± 12 100 ± 12 100 ± 12 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 18 100 ± 20 100 ± 20 100 ± 22	20.0 23.6 25.4 26.0 26.0 25.5 25.0 23.5 22.5 19.0 19.0 18.0 17.0	



Rip Cord

4-Pair

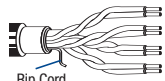
Cable passes -40°C Cold Bend per UL1581
 Installation Temperature: -25°C to +75°C
 Operating Temperature: -40°C to +75°C*
 610 m put-up available in Black only.

RJ-45 Compatible
 Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
 P-07-KA060003-MSHA**
 Jacket sequentially marked at 0.6 m intervals.

EtherNet/IP Compliant

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord

Polyolefin Insulation • PVC Inner Jacket • Industrial Grade PVC Outer Jacket (Black, Grey, Red, Teal or Blue)																			
Upjacketed	11700A	NEC: 1000 CMR CMX-Outdoor CEC: CMR FT4	1000 3000	305 914	39.0 117.3	17.7 53.2	0.51 mm 24 AWG Solid BC	0.038	0.97	Bonded-Pair Unshielded	0.285	7.24							see above



Rip Cord

4-Pair

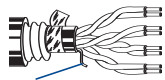
Cable passes -40°C Cold Bend per UL1581
 Installation Temperature: -25°C to +75°C
 Operating Temperature: -40°C to +75°C*
 914 m put-up available in Black only.

RJ-45 Compatible
 Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
 P-07-KA060005-MSHA**
 Outer jacket is sunlight- and oil-resistant. Jacket sequentially marked at 0.6 m intervals.

EtherNet/IP Compliant

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Polyester Wrap • Rip Cord

Polyolefin Insulation • PVC Inner Jacket • Interlocked AL Armor • Industrial Grade PVC Outer Jacket (Black or Grey)																			
Interlocked AL Armor	121700A	NEC: 1000 CM CEC: HL CMG FT4	1000 3000	305 914	158.7 464.3	72.0 210.6	0.51 mm 24 AWG Solid BC	0.038	0.97	Bonded-Pair Unshielded	0.530	13.46							see above



Rip Cord

4-Pair CMG

Cable passes -40°C Cold Bend per UL1581
 Installation Temperature: -25°C to +75°C
 Operating Temperature: -40°C to +75°C*
 914 m put-up available in Black only.

RJ-45 Compatible
 Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126
 Verified to TIA/EIA-568-B.2, Category 5e
 Outer jacket is sunlight- and oil-resistant. Jacket sequentially marked at 1 m intervals.

TC = Tinned Copper • 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
 * Subject to length de-rating. • ** Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

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



For more information, contact Belden Technical Support +31-77-3875-414 • www.belden-emea.com

Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables
Heavy Duty Sunlight- and Oil-Resistant Jackets



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			Input Imp. (Ω)	Min. RL dB		
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m				
Enhanced Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Patented E-Spline Center Member • Rip Cord																					
Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket																					
<p>Rip Cord 4-Pair</p>	7927A	NEC:	1000	305	44.1	20.0	0.57 mm	0.042	1.07	Bonded-Pair	0.251	6.38	1	1.9	80.3	78.5	70.8	100 ± 12	20.0		
		CMR	2000	610	88.0	39.9	23 AWG			Unshielded	x	x	10	5.7	65.3	59.6	50.8	100 ± 12	25.0		
		CEC:						Solid BC				0.339	8.61	31.25	10.2	57.9	47.7	40.9	100 ± 15	25.0	
		CMR FT4												62.5	14.7	53.4	38.7	34.9	100 ± 15	25.0	
														100	18.9	50.3	31.4	30.8	100 ± 15	25.0	
															155	23.9	47.5	23.5	27.0	100 ± 15	22.8
															200	27.5	45.8	18.3	24.8	100 ± 15	21.7
															250	31.2	44.3	13.2	22.8	100 ± 20	20.5
															350	37.7	40.2	4.5	19.9	100 ± 22	19.8
															400	40.6	39.3	0.6	18.8	100 ± 22	19.5
															500	46.2	37.8	> 0*	16.8	100 ± 22	18.4
															550	48.8	37.2	–	16.0	100 ± 22	18.0
													600	51.4	36.6	–	15.2	100 ± 22	17.6		
Cable passes -40°C Cold Bend per UL1581 Installation Temperature: -25°C to +75°C Operating Temperature: -40°C to +75°C*										RJ-45 Compatible Third party verified to TIA/EIA-568-B.2-1, Category 6 U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1 Jacket sequentially marked at 0.6 m intervals.											
* PSUM ACR > 0 is guaranteed to 460 MHz																					

Enhanced Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Rip Cord

Polyolefin Insulation • PVC Inner Jacket • Industrial Grade PVC Outer Jacket (Black and Grey)																							
<p>Rip Cord 4-Pair Mediatwist™ Construction</p>	11872A	NEC:	1000	305	66.1	30.0	0.57 mm	0.041	1.04	Bonded-Pair	0.475	12.07	1	1.9	72.3	70.0	64.8	100 ± 12	20.0				
		CM					23 AWG			Unshielded	x	x	4	3.7	63.3	59.0	52.7	100 ± 12	23.0				
		CEC:					Solid BC					0.265	6.73	10	5.9	57.3	51.0	44.8	100 ± 12	25.0			
		CM												16	7.5	54.3	46.0	40.7	100 ± 12	25.0			
		FT1												Upjacketed O.D.	31.25	10.6	49.9	39.0	34.9	100 ± 15	25.0		
															0.365	9.27	62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
															x	x	100	19.8	42.3	25.0	24.8	100 ± 15	21.0
															0.165	4.19	155	25.1	39.5	14.0	20.9	100 ± 15	21.0
															200	29.0	37.9	10.0	18.7	100 ± 15	21.0		
															310	37.1	34.9	–	14.9	100 ± 20	18.0		
															350	39.8	34.2	–	13.9	100 ± 22	17.0		
															400*	43.0	33.3	–	12.7	100 ± 32	14.0		
													500*	49.0	31.8	–	10.8	100 ± 32	14.0				
Cable passes -25°C Cold Bend per UL1581 Installation Temperature: -10°C to +75°C Operating Temperature: -25°C to +75°C*										RJ-45 Compatible Verified to TIA/EIA-568-B.2-1, Category 6 U.S. Patents 5,606,151, 5,734,126 and 5,821,467 Jacket sequentially marked at 0.6 m intervals.													
* Value provided for information only.																							

Enhanced Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Polyester Wrap • Rip Cord

Polyolefin Insulation • PVC Inner Jacket • Interlocked AL Armor • Industrial Grade PVC Outer Jacket (Black and Grey)																					
<p>Rip Cord 4-Pair Mediatwist™ Construction</p>	121872A	NEC:	1000	305	221.8	100.8	0.57 mm	0.041	1.04	Bonded-Pair	0.684	17.37								see above	
		AL Armor					23 AWG			Unshielded											
		CEC:					Solid BC														
		HL																			
		CMG FT4																			
Cable passes -40°C Cold Bend per UL1581 Installation Temperature: -25°C to +75°C Operating Temperature: -40°C to +75°C*										RJ-45 Compatible Verified to TIA/EIA-568-B.2-1, Category 6 U.S. Patents 5,606,151, 5,734,126 and 5,821,467 Jacket sequentially marked at 1 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
* Subject to length de-rating.

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

Industrial Data Solutions® – Industrial Twinax

Blue Hose® Cables



De-scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/100 ft.	dB/100 m

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 55% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket

300V 80°C	9463	NEC:	100	31	4.2	1.9	0.96 mm	0.076	1.92	Overall	0.238	6.05	78	66%	19.7	64.6	1	0.6	2.0
UL AWM Style 2464		CM CL2	U-500	U-152	18.5	8.4	20 AWG			Beldfoil®							10	2.1	6.9
		CEC:	500	152	18.5	8.4	(7x28) TC			+ Overall							50	5.0	16.4
		CM	U-1000	U-305	37.0	16.8				55% TC Braid							100	7.5	24.6
			1000	305	37.0	16.8				+ Drain Wire							200	11.0	36.1
			† 6000	1829	233.9	106.1				(20 AWG TC)							400	16.0	52.5
			† 10000	3048	370.8	168.2													



Z-Fold®

Color Code: Clear, Blue
305 m, 1829 m and 3048 m put-ups also available in Brown, Orange or Violet.

Allen-Bradley P/N 1770-CD
P-7K-SC-182141-MSHA*
CPE jacket optional.

Polyethylene Insulation • Blue FRNC/LSNH Jacket

300V 80°C	9463NH	IEC	1000	305	37.5	17.0	0.96 mm	0.077	1.96	Overall	0.250	6.35	78	66%	19.7	64.6			see above	
		332-3C	1640	500	64.6	29.3	20 AWG			Beldfoil®										
		BS 7655	3280	1000	117.5	53.3	(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Polyethylene Insulation • Blue FRNC/LSNH Inner Jacket • Steel Wire Armor • Blue FRNC/LSNH Outer Jacket

300V 80°C	9463LS	IEC	1640	500	249.1	113.0	0.96 mm	0.077	1.96	Overall	0.250	6.35	78	66%	19.7	64.6			see above	
Steel Wire Armor		332-3C	3280	1000	537.9	244.0	20 AWG			Beldfoil®	0.423	10.75								
		BS 7655	4920	1500	925.9	420.0	(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Polyethylene Insulation • Blue Sunlight-Resistant LDPE Jacket

300V 80°C	9463DB		1000	305	33.1	15.0	0.96 mm	0.076	1.92	Overall	0.240	6.10	78	66%	19.7	64.6			see above	
Flooded			5000	1524	155.2	70.4	20 AWG			Beldfoil®										
Direct Burial							(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

20 AWG • Stranded (42x36) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 85% Tinned Copper Braid

Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket

300V 60°C	9463F	NEC:	1000	305	42.1	19.1	0.97 mm	0.075	1.91	Overall	0.243	6.17	78	66%	19.7	64.6			see above	
UL AWM Style 2464		CM CL2	5000	1524	205.2	93.1	20 AWG			Beldfoil®										
		CEC:					(42x36) TC			+ Overall										
		CM								85% TC Braid										



Z-Fold®

High-Flex

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD
P-7K-SC-182141-MSHA*

TC = Tinned Copper • DCR = DC resistance

† Final put-up length may vary ±10% from length shown.

* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

Industrial Data Solutions® - Industrial Twinax

Blue Hose® Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	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:	1000	305	34.0	15.4	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	0.6	2.0
		CMP CL2P	2500	762	90.2	40.9											10	2.1	6.9
		CEC:															50	5.0	16.4
		CMP FT6															100	7.5	24.6
																200	11.0	36.1	
																	400	16.0	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:	1000	305	122.4	55.5	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	*0.238	*6.05	78	66%	19.7	64.6			see above											
		CM CL2	6000	1829	925.9	420.0											**0.563	**14.30												
		CEC:																												
		CM																												



* 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:	1000	305	220.5	100.0	0.96 mm 20 AWG (7x28) TC	0.076	1.92	Overall Beldfoil® + Overall 55% TC Braid + Drain Wire (20 AWG TC)	*0.238	*6.05	78	66%	19.7	64.6			see above											
		CM CL2	6000	1829	1491.2	676.4											**0.563	**14.30												
		CEC:																												
		CM																												



* 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:	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	*6.05	78	66%	19.7	64.6			see above											
		PLTC															**0.500	**12.70												



* 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



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

20 AWG • Stranded (7x28) 1.0 mm One Tinned, One Bare Copper • Duofoil® • 86% Tinned Copper Braid

Polyethylene Insulation • Polyethylene Inner Jacket • Black PVC Outer Jacket

	75°C	9207	NEC:	100	31	7.1	3.2	0.96 mm	0.083	2.11	Overall	0.330	8.38	100	66%	14.5	47.6	1	0.3	1.0
			CMG CL2	U-500	U-152	34.2	15.5	20 AWG			Duofoil®							10	1.2	3.9
			CEC:	500	152	34.6	15.7	(7x28) TC + BC			+ Overall							50	2.8	9.2
			CMG FT4	1000	305	68.1	30.9				86% TC Braid							100	4.1	13.5
				1640	500	111.8	50.7											200	6.4	21.0
				2000	610	136.2	61.8											400	10.2	33.5
				3280	1000	220.2	99.9													
			5000	1524	350.8	159.1														

Color Code: Clear, Clear

IBM P/N 7362211

CPE jacket optional

Polyethylene Insulation • Black FRNC/LSNH Jacket

	80°C	9207NH	IEC 332	1000	305	44.3	20.1	0.96 mm	0.077	1.96	Overall	0.339	8.60	100	66%	14.5	47.6			see above	
			BS 7655	1640	500	69.9	31.7	20 AWG			Duofoil®										
				3280	1000	143.7	65.2	(7x28) TC + BC			+ Overall										
											86% TC Braid										

Color Code: Clear, Clear

16 AWG • Solid 1.3 mm Bare Copper • Duofoil® • 90% Tinned Copper Braid

Foam Polyethylene Insulation • Black PVC Jacket

	30V 60°C	9860	NEC:	500	152	52.0	23.6	1.29 mm	0.161	4.09	Overall	0.440	11.18	124	78%	10.9	35.8	1	0.2	0.6	
	UL AWM Style 2448		CMX	1000	305	103.2	46.8	16 AWG			Duofoil®								10	0.7	2.3
			CEC:	2000	610	202.4	91.8	Solid BC			+ Overall								50	1.8	5.9
			CMX								90% TC Braid								100	2.9	9.5
																			200	4.1	13.5
																			400	6.2	20.3

Color Code: Clear, Blue

CPE jacket optional

Foam Polyethylene Insulation • Black FRNC/LSNH Jacket

	80°C	9860NH	IEC 332	1640	500	183.0	83.0	1.29 mm	0.161	4.09	Overall	0.441	11.20	124	78%	10.9	35.8			see above	
			BS 7655	3280	1000	354.9	161.0	16 AWG			Duofoil®										
								Solid BC			+ Overall										
											90% TC Braid										

Color Code: Clear, Blue

Foam Polyethylene Insulation • FRNC/LSNH Chrome Inner Jacket • Steel Wire Armor • Black FRNC/LSNH Outer Jacket

	80°C	9860LS	IEC	1640	500	581.8	263.8	1.29 mm	0.161	4.09	Overall	*0.441	*11.20	124	78%	10.9	35.8			see above	
			332-3C	3280	1000	1262.6	572.7	16 AWG			Duofoil®	**0.650	**16.50								
			BS 7655					Solid BC			+ Overall										
											90% TC Braid										

Color Code: Clear, Blue

* Under Armor

** Over Armor

TC = Tinned Copper • DCR = DC resistance
Duofoil® see technical information page 23.13.

Industrial Data Solutions® - Industrial Data
DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

FOUNDATION Fieldbus/PROFIBUS PA • 18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • Beldfoil® • 20 AWG Tinned Copper Drain Wire

Polyolefin Insulation • PVC Jacket (Orange and Blue)

Type A	3076F	NEC:	250	76	10.6	4.8	1.22 mm	0.088	2.24	Overall	0.253	6.43	100 @	66%	24.0	78.7	0.039	0.1	0.26
300V 75°C		PLTC CM	500	152	18.5	8.4	18 AWG			Beldfoil®			31.25 KHz						
(31.25 kbits/sec)		ITC	1000	305	34.2	15.5	(7x26) TC			+ Drain Wire									
		CEC:	2500	762	85.1	38.6				(20 AWG TC)									
		CM	† 5000	1524	170.4	77.3													



Shorting Fold

Color Code: Orange, Blue
 Fieldbus: Orange jacket
 Profibus PA: Intrinsically safe Blue jacket.
 Blue available as standard in 305 m put-up only.
 CPE jacket optional.

123076F – Version with Aluminum Interlocked Armor
 133076F – Version with Steel Interlocked Armor
 YM47023 – CPE jacketed version
 YM46698 – Black & White color-coded pairs
 YM47090 – Various colored jackets
 YM41725 – LSZH (FRNC) jacketed version

Polyolefin Insulation • FRNC/LSNH Jacket (Blue and Orange)

300V 80°C	3076NH	IEC	1640	500	98.3	44.6	1.22 mm	0.088	2.24	Overall	0.295	7.50	100	66%	24.4	80.0	0.01	0.1	0.4	
		332-3C	3280	1000	191.1	86.7	18 AWG			Beldfoil®							0.039	0.2	0.5	
		BS 7655					(7x26) TC			+ Drain Wire								0.1	0.2	0.8
										(20 AWG TC)								0.5	0.6	2.1
																		1.0	1.0	3.2



Shorting Fold

Color Code: White, Black

Polyolefin Insulation • FRNC/LSNH Inner Jacket (Black and Blue) • Steel Wire Armor • Black FRNC/LSNH Outer Jacket

300V 80°C	3076LS	IEC	1640	500	394.8	179.1	1.22 mm	0.088	2.24	Overall	*0.295	*7.50	100	66%	24.4	80.0				see above
		332-3C	3280	1000	737.0	334.3	18 AWG			Beldfoil®	**0.512	**13.00								
		BS 7655					(7x26) TC			+ Drain Wire										
										(20 AWG TC)										



Shorting Fold

* Under Armor
 ** Over Armor

Color Code: White, Black

FOUNDATION Fieldbus • 22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Beldfoil® • 20 AWG Tinned Copper Drain Wire

Polyolefin Insulation • Orange PVC Jacket

Type B	3077F	NEC:	† 500	152	11.0	5.0	0.76 mm	0.059	1.50	Overall	0.196	4.97	100 @	66%	23.5	77.1	0.039	0.1	0.5
300V 150°C		PLTC CM	† 1000	305	22.9	10.4	22 AWG			Beldfoil®			31.25 KHz						
(31.25 kbits/sec)		ITC					(7x30) TC			+ Drain Wire									
		CEC:								(20 AWG TC)									
		CM																	



Shorting Fold

Color Code: Orange, Blue
 CPE and LSZH jacketed versions also available.

123077F – Version with Aluminum Interlocked Armor
 133077F – Version with Steel Interlocked Armor

Polyolefin Insulation • FRNC/LSNH Jacket (Blue and Orange)

300V 80°C	3077NH	IEC	1640	500	86.9	39.4	0.76 mm	0.059	1.50	Overall	0.295	7.50	100	66%	25.9	85.0	0.01	0.2	0.6	
		332-3C	3280	1000	168.2	76.3	22 AWG			Beldfoil®							0.039	0.2	0.7	
		BS 7655					(7x30) TC			+ Drain Wire								0.1	0.3	0.9
										(20 AWG TC)								0.5	1.1	3.5
																		1.0	1.6	5.1



Shorting Fold

Color Code: White, Black

Polyolefin Insulation • FRNC/LSNH Inner Jacket (Black and Blue) • Steel Wire Armor • Black FRNC/LSNH Outer Jacket

300V 80°C	3077ELS	IEC	1640	500	381.8	173.2	0.76 mm	0.059	1.50	Overall	*0.295	*7.50	100	66%	25.9	85.0				see above
		332-3C	3280	1000	741.8	336.5	22 AWG			Beldfoil®	**0.512	**13.00								
		BS 7655					(7x30) TC			+ Drain Wire										
										(20 AWG TC)										



Shorting Fold

* Under Armor
 ** Over Armor

Color Code: White, Black

TC = Tinned Copper • DCR = DC resistance
 † Final put-up length may vary 0% to +10% from length shown.

Industrial Data Solutions® – Industrial Data

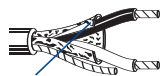
DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables



De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/100 ft.	dB/100 m

FOUNDATION Fieldbus • 22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Beldfoil® • 20 AWG Tinned Copper Drain Wire

FHDPE Insulation • Orange PVC Jacket																			
High Speed 300V 75°C (1.0 & 2.5 Mbits/sec)	3078F	NEC:	250	76	9.9	4.5	0.76 mm	0.121	3.07	Overall	0.351	8.92	150 @	78%	8.5	27.9	0.25	0.2	0.6
		PLTC CM	500	152	22.9	10.4	22 AWG			Beldfoil®			1 MHz				0.625	0.3	0.9
		CEC:	1000	305	44.1	20.0	(7x30) TC			+ Drain Wire							1.25	0.3	1.1
		CM	2500	762	115.1	52.2				(20 AWG TC)							3.125	0.6	1.8



Shorting Fold

Color Code: Orange, Blue
CPE and LSZH jacketed versions also available.

123078F – Version with Aluminum Interlocked Armor
133078F – Version with Steel Interlocked Armor

DataBus® PROFIBUS • DP EN50170-2-2

De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/100 ft.	dB/100 m

Profibus DP • 22 AWG • Solid 0.6 mm Bare Copper • Beldfoil® • 65% Tinned Copper Braid

FHDPE Insulation • Chrome and Violet PVC Jacket																			
300V 75°C	3079A	NEC:	1000	305	56.0	25.4	0.64 mm	0.099	2.52	Overall	0.315	8.00	150	78%	8.5	27.9	0.2	0.3	0.9
		PLTC CMG	2000	610	112.0	50.8	22 AWG			Beldfoil®							4	0.7	2.2
		CEC:	3600	1098	201.5	91.4	Solid BC			+ Overall							16	1.4	4.5
		CMG FT4								65% TC Braid							100	3.8	12.3
																300	6.5	21.4	



Color Code: Red, Green
Siemens Sinec L2 cable
UL AWM 20201 (600V)

123079A – Aluminum Interlocked Armor
133079A – Steel Interlocked Armor
YR45047 – CPE jacketed version
YR44731 – LSZH (FRNC) jacketed version

Profibus DP • 22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Beldfoil® • 65% Tinned Copper Braid

FR-FPE Insulation • Violet PVC Jacket																			
300V 75°C	3079E	NEC:	1000	305	44.1	20.0	0.76 mm	0.099	2.52	Overall	0.315	8.00	150	78%	8.5	27.9	0.2	0.3	1.1
		PLTC CMG	1640	500	73.9	33.5	22 AWG			Beldfoil®							4	0.8	2.7
		CEC:	3280	1000	144.4	65.5	(7x30) BC			+ Overall							16	1.6	5.4
		CMG FT4								65% TC Braid							100	3.8	12.3



Color Code: Red, Green
For CPE jacketed version order Part No. YR45047

Cellular Polyolefin Insulation • Violet FRNC/LSNH Jacket

300V 80°C	3079ANH	IEC	1000	305	214.1	97.1	0.64 mm	0.099	2.52	Overall	0.315	8.00	150	78%	8.8	29.0	0.2	0.3	0.9
		332-3C	1640	500	358.2	162.5	22 AWG			Beldfoil®							4	0.7	2.2
		BS 7655	3280	1000	711.2	322.6	Solid BC			+ Overall							16	1.4	4.5
										65% TC Braid							100	3.8	12.3



Color Code: Red, Green

Cellular Polyolefin Insulation • Black PVC Jacket • Steel Wire Armor

300V 80°C	3079ALS	IEC	1640	500	102.5	46.5	0.64 mm	0.099	2.52	Overall	*0.315	*8.00	150	78%	8.5	27.9	0.2	0.3	0.9
		332-3C	3280	1000	183.0	83.0	22 AWG			Beldfoil®	**0.488	**12.40					4	0.7	2.2
		BS 7655					Solid BC			+ Overall							16	1.4	4.5
										65% TC Braid									



Color Code: Red, Green

* Under Armor
** Over Armor


TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance


Industrial Data Solutions® - Industrial Data
 Low-Capacitance Computer Cables for EIA RS-485 Applications




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

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Overall Beldfoil® + 90% Tinned Copper Braid • 24 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket																		
30V 80°C UL AWM Style 2919	NEC: CM CEC: CM						0.61 mm 24 AWG (7x32) TC	0.068	1.73		Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)		120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
																		
DMX 512																		
9841	1-Pair	100	31	4.9	2.2							0.232	5.89					
		500	152	20.1	9.1													
		1000	305	40.1	18.2													
9842	2-Pair	100	31	5.7	2.6							0.340	8.64					
		500	152	29.5	13.4													
		1000	305	57.1	25.9													
9843	3-Pair	100	31	7.1	3.2							0.360	9.14					
		500	152	34.6	15.7													
		1000	305	67.2	30.5													
9844	4-Pair	500	152	43.0	19.5							0.390	9.91					
		1000	305	83.1	37.7													

Polyethylene Insulation • Chrome FRNC/LSNH Jacket																		
80°C	IEC 332-3C BS 7655						0.61 mm 24 AWG (7x32) TC	0.068	1.73		Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)		120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
																		
9841NH	1-Pair	1000	305	38.1	17.3							0.232	5.90					
		1640	500	65.0	29.5													
		3280	1000	124.8	56.6													
9842NH	2-Pair	1000	305	64.4	29.2							0.341	8.65					
		1640	500	102.7	46.6													
		3280	1000	196.4	89.1													
9843NH	3-Pair	1000	305	69.0	31.3							0.358	9.10					

Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket																		
80°C	IEC 332-3C BS 7655						0.61 mm 24 AWG (7x32) TC	0.068	1.73		Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)		120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
																		
9841LS	1-Pair	1000	305	154.1	69.9							*0.232	*5.90					
		1640	500	276.9	125.6							**0.406	**10.30					
		3280	1000	624.3	283.2													
9842LS	2-Pair	1000	305	195.5	88.7							*0.341	*8.65					
		1640	500	335.1	152.0							**0.516	**13.10					
		3280	1000	648.2	294.0													

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® - Interconnect Cables

Shielded Twisted Pair Cables



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

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

Datalene® Insulation • Chrome PVC Jacket																			
300V 60°C	9729	NEC:	100	31	4.4	2.0	0.61 mm	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.266	6.76	100	76%	CDR/CDR	12.5	41.0	Red, Black White, Black	
UL AWM Style 2493		CM	500	152	20.5	9.3	24 AWG									CDR/SCR	23.2		76.1
		CEC:	1000	305	39.0	17.7	(7x32) TC												
		CM	10000	3049	390.4	177.1													



Z-Fold®

2-Pair

Datalene® Insulation • Black FRNC/LSNH Jacket • Color Coded Foils (Red, Green)

300V 80°C	9729NH	IEC	1000	305	44.1	20.0	0.61 mm	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.335	8.50	100	76%	CDR/CDR	12.5	41.0	Red, Black White, Black	
		332-3C	1640	500	74.5	33.8	24 AWG									CDR/SCR	23.2		76.1
		BS 7655	3280	1000	137.3	62.3	(7x32) TC												



Z-Fold®

2-Pair

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

300V 80°C	9729LS	IEC	1640	500	347.2	157.5	0.61 mm	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)	*0.335	*8.50	100	76%	CDR/CDR	12.5	41.0	Red, Black White, Black	
		332-3C	3280	1000	672.4	305.0	24 AWG				**0.512	**13.00				CDR/SCR	23.2		76.1
		BS 7655					(7x32) TC												



Z-Fold®

2-Pair

* Under Armor
** Over Armor

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

Polypropylene Insulation • Chrome PVC Jacket																			
30V 80°C	8777	NEC:	100	31	4.6	2.1	0.76 mm	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.273	6.93	50	66%	CDR/CDR	30.0	98.0	Red, Black White, Black Green, Black	
UL AWM Style 2919		CM	250	76	11.0	5.0	22 AWG									CDR/SCR	55.0		180.0
		CEC:	U-500	U-152	20.9	9.5	(7x30) TC												
		CM	500	152	20.9	9.5													
			U-1000	U-305	41.0	18.6													
			1000	305	42.1	19.1													
			1640	500	67.2	30.5													
			3280	1000	137.8	62.5													
			5000	1524	210.1	95.3													
			10000	3049	450.4	204.3													



Z-Fold®

3-Pair

For Plenum version of 8777, see 88777, 87777 or 82777.

Polypropylene Insulation • Chrome FRNC/LSNH Jacket • Color Coded Foils (Red, Green, Blue)

300V 80°C	8777NH	IEC	1000	305	50.7	23.0	0.76 mm	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.276	7.00	50	66%	CDR/CDR	30.0	98.4	Red, Black White, Black Green, Black	
		332-3C	1640	500	78.5	35.6	22 AWG									CDR/SCR	55.0		180.4
		BS 7655	3280	1000	151.5	68.7	(7x30) TC												



Z-Fold®

3-Pair

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® - Interconnect Cables

Shielded Twisted Pair Cables

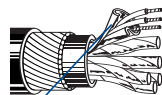


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.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

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	500	290.3	131.7	0.76 mm 22 AWG (7x30) TC	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	*0.276	*7.00	50	66%	CDR/CDR CDR/SCR	30.0	98.4	Red, Black Green, White Green, Black
			3280	1000	712.5	323.2					**0.425	**10.80				55.0	180.4	



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



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	305	23.1	10.5	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	114.8	Red, Black Green, White
			1640	500	36.8	16.7										62.0	203.4	
			3280	1000	75.0	34.0												



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	500	168.7	76.5	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	114.8	Red, Black Green, White
			3280	1000	350.1	158.8					**0.346	**8.80				62.0	203.4	



2-Pair

* Under Armor
** Over Armor

Plenum • FEP Insulation • Red FEP Jacket

300V RMS Non-conduit	88723	NEC:	100	31	3.3	1.5	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	115.0	Red, Black Green, White
		CMP	500	152	11.0	5.0										67.0	220.0	
		CEC:	1000	305	20.9	9.5												
		CMP FT6																



Z-Fold®

2-Pair

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® – Interconnect Cable

Shielded Twisted Pair Cables



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

18 AWG • Stranded (16x30) 1.2 mm Tinned Copper • Twisted Pair • Beldfoil® • 20 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket																		
300V 60°C	8760	NEC:	250	76	6.8	3.1	1.2 mm	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.222	5.64	-	-	CDR/CDR	24.0	79.0	Black, Clear
UL AWM Style 2092		CM	U-500	U-152	13.0	5.9	18 AWG									CDR/SCR	44.0	
		CEC:	500	152	13.0	5.9	(16x30) TC											
		CM	U-1000	U-305	26.0	11.8												
			1000	305	26.0	11.8												
			2000	610	50.0	22.7												
			5000	1524	135.1	61.3												
			10000	3049	260.1	118.0												



Shorting Fold

1-Pair

For Plenum version of 8760, see 88760, 87760 or 82760.

Polyethylene Insulation • Chrome FRNC/LSNH Jacket																		
300V 80°C	8760NH	IEC	1000	305	34.6	15.7	1.2 mm	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.236	6.00	60	66%	CDR/CDR	24.0	78.7	Black, Clear
		332-3C	1640	500	54.2	24.6	18 AWG									CDR/SCR	44.0	
		BS 7655	3280	1000	110.5	50.1	(16x30) TC											



Shorting Fold

1-Pair

Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket																		
300V 80°C	8760LS	IEC	1640	500	270.1	122.5	1.2 mm	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	*0.236	*6.00	60	66%	CDR/CDR	24.0	78.7	Black, Clear
		332-3C	3280	1000	610.5	276.9	18 AWG				**0.409	**10.40				CDR/SCR	44.0	
		BS 7655					(16x30) TC											



Shorting Fold

1-Pair

* Under Armor
** Over Armor

TC = Tinned Copper • DCR = DC resistance