

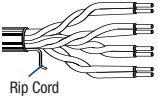
**Industrial Data Solutions® – Industrial Ethernet Cables**

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		

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

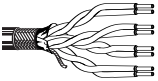
<b>Polyethylene Insulation • Industrial Grade Sunlight- and Oil-Resistant FRNC/LSNH Jacket (Black and Grey)</b>																					
	BEB1212 IEC	60332-1	1000	305	20.1	9.1	0.51 mm	0.037	0.95	Bonded-Pair	0.217	5.50	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
			1640	500	33.1	15.0									24 AWG	Unshielded	4	4.1	53.3	49.2	48.7
															10	6.3	47.3	41.0	40.8	100 ± 15	25.0
															16	8.0	44.3	36.2	36.7	100 ± 15	25.0
															25	10.1	41.3	31.2	32.8	100 ± 15	25.0
															62.5	16.5	35.4	18.9	24.8	100 ± 15	21.5
														100	21.3	32.3	11.0	20.8	100 ± 15	20.1	

4-Pair  
**EtherNet/IP** Compliant

Color Code: see chart below  
Burning Energy: 400 kJ/m  
RJ-45 Compatible, -25°C Cold Bend

Verified to ISO/IEC 11801 (2nd Edition), EN-50173-1, TIA/EIA-568-B.2, Category 5e  
U.S. Patents 5,606,151 and 5,734,126  
Jacket sequentially marked at 1 m intervals.

**Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall Beldfoil® Shield + 40% TC Braid • 26 AWG TC Drain Wire**


<b>Polyethylene Insulation • Industrial Grade Sunlight- and Oil-Resistant FRNC/LSNH Jacket (Black, Grey and Blue)</b>																			
	Heavy Shielded	BEB3212 IEC	60332-1	1000	305	30.9	14.0	0.51 mm	0.041	1.05	Bonded-Pair	0.262	6.65	see above					
				1640	500	50.7	23.0							24 AWG	Overall Beldfoil®	+ Overall	40% TC Braid	+ Drain Wire	(26 AWG TC)

4-Pair  
**EtherNet/IP** Compliant

Color Code: see chart below  
Burning Energy: 575 kJ/m  
RJ-45 Compatible, -25°C Cold Bend

Verified to ISO/IEC 11801 (2nd Edition), EN-50173-1, Category 5e  
U.S. Patents 5,606,151 and 5,734,126  
Jacket sequentially marked at 1 m intervals.

**Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire**

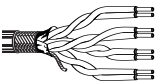
<b>Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket (Black and Blue)</b>																						
	Shielded	7929A	NEC: 1000 CMR 2000 CMX-Outdoor CEC: CMR FT4	1000	305	37.0	16.8	0.51 mm	0.045	1.14	Bonded-Pair	0.265	6.73	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
				2000	610	72.1	32.7									24 AWG	Overall Beldfoil®	+ Drain Wire	(24 AWG TC)	4	4.1	53.3
																10	6.5	47.3	40.8	40.8	100 ± 15	25.0
																16	8.2	44.3	36.1	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  
RJ-45 Compatible, -25°C Cold Bend  
610 m put-up available in Black only.

Third party verified to TIA/EIA-568-B.2, Category 5e  
U.S. Patents 5,606,151 and 5,734,126  
Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals.

**Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm BC • Overall Beldfoil® Shield + 70% TC Braid • 24 AWG Spiral Drain Wire**

<b>Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket (Black, Red, Blue and Teal)</b>																						
	Heavy Shielded	7921A	NEC: 1000 CMR 2000 CMX-Outdoor CEC: CMR FT4	1000	305	54.9	24.9	0.51 mm	0.047	1.19	Bonded-Pair	0.330	8.38	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
				2000	610	106.0	48.1									24 AWG	Overall Beldfoil®	+ Overall	70% TC Braid	+ Drain Wire	(24 AWG TC)	4
																10	6.5	47.3	40.8	40.8	100 ± 15	26.0
																16	8.2	44.3	36.1	36.7	100 ± 15	26.0
																31.25	11.7	39.9	28.2	30.9	100 ± 15	25.0
																62.5	17.0	35.4	18.4	24.8	100 ± 15	23.5
															100	22.0	32.3	10.3	20.8	100 ± 15	22.5	

4-Pair

Color Code: see chart below  
-25°C Cold Bend  
610 m put-up available in Black only.

Third party verified to TIA/EIA-568-B.2, Category 5e  
U.S. Patents 5,606,151 and 5,734,126  
Jacket sequentially marked at 0.6 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

**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 5e • 24 AWG • Solid 0.5 mm Bare Copper • Rip Cord**

**Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black and Blue)**

<p>Rip Cord</p>	7918A	NEC:	1000	305	28.0	12.7	0.51 mm	0.037	0.94	Non- Bonded-Pair Unshielded	0.230	5.84	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		CMR	2000	610	52.0	23.6	24 AWG								4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CMX-Outdoor					Solid BC								10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CEC:													16	8.2	44.3	36.1	36.7	100 ± 15	25.0
		CMR FT4													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 ± 25	15.0							
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  
Jacket sequentially marked at 0.6 m intervals.  
Color Code: see chart below

**Enhanced Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire**

**Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket**

<p>Shielded</p>	7919A	NEC:	1000	305	35.1	15.9	0.51 mm	0.042	1.07	Non- Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC)	0.265	6.73	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		CMR	2000	610	68.1	30.9	24 AWG								4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CMX-Outdoor					Solid BC								10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CEC:													16	8.2	44.3	36.1	36.7	100 ± 15	25.0
		CMR FT4													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
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 • P-07-KA060004-MSHA\*\*  
Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals.  
Color Code: see chart below

**Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire**

**Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black, Red and Teal)**

<p>Shielded</p>	7933A	NEC:	1000	305	32.0	14.5	0.51 mm	0.038	0.97	Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC)	0.227	5.77	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		CMR FT4	2000	610	64.8	29.4	24 AWG								4	4.1	53.3	49.2	48.7	100 ± 15	23.6
		CEC:					Solid BC								10	6.5	47.3	40.8	40.8	100 ± 15	26.0
		CMR FT4													16	8.2	44.3	36.1	36.7	100 ± 15	26.0
															31.25	11.7	39.9	28.2	30.9	100 ± 15	25.0
															62.5	17.0	35.4	18.4	24.8	100 ± 15	23.5
															100	22.0	32.3	10.3	20.8	100 ± 15	22.5
								200	32.4	27.8	1.0	14.7	100 ± 25	15.0							
2-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.

M-12 or RJ-45 Compatible  
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126  
Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals.  
Color Code: see chart below

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

**Plenum • FEP Insulation • Sunlight-, Oil- and Gas-Resistant Black FEP Jacket**

<p>Compliant High &amp; Low Temp Oil Res I &amp; II Gas Res</p>	7928A	NEC:	1000	305	24.0	10.9	0.51 mm	0.036	0.91	Bonded-Pair Unshielded	0.187	4.57	1	2.0	65.3	63.3	60.8	100 ± 12	20.0		
		Limited					24 AWG								4	4.0	56.3	52.3	48.7	100 ± 12	23.6
		Combustible					Solid BC								10	6.4	50.3	43.9	40.8	100 ± 12	26.0
		FHC 25/50													16	8.1	47.3	39.1	36.7	100 ± 12	26.0
		CMP													31.25	11.6	42.9	31.3	30.9	100 ± 15	25.0
		CEC:													62.5	16.8	38.4	21.6	24.8	100 ± 15	23.5
		CMP FT6													100	21.7	35.3	17.1	20.8	100 ± 15	22.5
								350	44.3	27.2	-	9.9	100 ± 22	17.0							
4-Pair																					

Cable passes -70°C Cold Bend per UL1581  
Installation Temperature: -55°C to +150°C  
Operating Temperature: -70°C to +150°C\*

RJ-45 Compatible • Jacket sequentially marked at 0.6 m intervals.  
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126  
Color Code: see chart below

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

**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)**

<p>Rip Cord</p> <p>4-Pair</p>	7923A	NEC:	1000	305	28.0	12.7	0.51 mm	0.038	0.97	Bonded-Pair	0.230	5.84	1	2.0	65.3	68.3	60.8	100 ± 12	20.0	
		CMR	2000	610	54.0	24.5	24 AWG			Unshielded				4	4.0	56.3	52.3	48.7	100 ± 12	23.6
		CMX-Outdoor					Solid BC							8	5.7	51.8	46.1	42.7	100 ± 12	25.4
		CEC:												10	6.4	50.3	43.9	40.8	100 ± 12	26.0
		CMR FT4												16	8.1	47.3	39.1	36.7	100 ± 12	26.0
														25	10.3	44.3	34.1	32.1	100 ± 15	25.5
														31.25	11.6	42.9	31.3	30.9	100 ± 15	25.0
														62.5	16.8	38.4	21.6	24.8	100 ± 15	23.5
														100	21.7	35.3	17.1	20.8	100 ± 15	22.5
														155	27.7	32.5	4.7	16.9	100 ± 18	19.0
												200	32.0	30.8	3.0	14.7	100 ± 20	19.0		
												250	36.4	29.3	-	12.8	100 ± 20	18.0		
												350	44.3	27.2	-	9.9	100 ± 22	17.0		

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)**

<p>Rip Cord</p> <p>4-Pair</p>	Upjacketed 11700A	NEC:	1000	305	39.0	17.7	0.51 mm	0.038	0.97	Bonded-Pair	0.285	7.24							see above	
		CMR	3000	914	117.3	53.2	24 AWG			Unshielded										
		CMX-Outdoor					Solid BC													
		CEC:																		
		CMR FT4																		

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)**

<p>Rip Cord</p> <p>4-Pair CMG</p>	Interlocked AL Armor 121700A	NEC:	1000	305	158.7	72.0	0.51 mm	0.038	0.97	Bonded-Pair	0.530	13.46							see above	
		CM	3000	914	464.3	210.6	24 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\*  
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



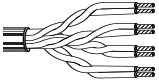
For more information, contact Belden Technical Support +31-77-3875-414 • www.belden-emea.com

## Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables

Heavy Duty Sunlight- and Oil-Resistant Jackets

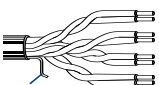


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			Input Imp. (Ω)	Min. RL dB	
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m			
<b>Enhanced Cat 5e • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Tinned Copper</b>																				
<b>Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black, Red or Teal)</b>																				
Stranded Flexible   4-Pair	7924A	NEC:	1000	305	30.0	13.6	0.61 mm	0.039	0.99	Bonded-Pair	0.242	6.15	1	2.4	65.3	62.9	60.8	100 ± 12	20.0	
		CMR	2000	610	58.0	26.3	24 AWG			Unshielded				4	4.8	56.3	51.5	48.7	100 ± 12	23.6
		CMX-Outdoor					(7x32) TC							8	6.8	51.8	45.0	42.7	100 ± 12	25.4
		CEC:												10	7.7	50.3	42.6	40.8	100 ± 12	26.0
		CMR FT4												16	9.7	47.3	37.5	36.7	100 ± 12	26.0
														25	12.4	44.3	31.9	32.8	100 ± 15	25.5
														31.25	13.9	42.9	29.0	30.9	100 ± 15	25.0
														62.5	20.2	38.4	18.3	24.8	100 ± 15	23.5
														100	26.0	35.3	9.2	20.8	100 ± 15	22.5
														155	33.2	32.5	–	16.9	100 ± 18	19.0
														200	38.4	30.8	–	14.7	100 ± 20	19.0
														250	43.7	29.3	–	12.8	100 ± 20	18.0
														350	53.2	27.2	–	9.9	100 ± 22	17.0

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; 5,734,126 and 5,763,823  
Jacket sequentially marked at 0.6 m intervals.  
Color Code: see chart below

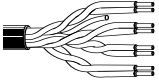
## Enhanced Cat 5e • 22 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Rip Cord

<b>Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket</b>																				
PLTC   Rip Cord 4-Pair	7922A	NEC:	1000	305	46.3	21.0	0.64 mm	0.048	1.22	Bonded-Pair	0.301	7.65	1	2.0	65.3	63.3	60.8	100 ± 12	20.0	
		PLTC	2000	610	92.6	42.0	22 AWG			Unshielded				4	4.0	56.3	52.3	48.7	100 ± 12	23.0
		CMR					Solid BC							8	5.7	51.8	46.1	42.7	100 ± 12	24.5
		CMX-Outdoor												10	6.4	50.3	43.9	40.8	100 ± 12	25.0
		CEC:												16	8.1	47.3	39.1	36.7	100 ± 12	25.0
		CMR FT4												25	10.3	44.3	34.1	32.8	100 ± 15	24.3
														31.25	11.6	42.9	31.3	30.9	100 ± 15	23.6
														62.5	16.8	38.4	21.6	24.8	100 ± 15	21.5
														100	21.7	35.3	17.1	20.8	100 ± 15	20.1
														155	27.7	32.5	4.7	16.9	100 ± 18	19.0
														200	32.0	30.8	3.0	14.7	100 ± 20	19.0
														250	36.4	29.3	–	12.8	100 ± 20	18.0
														350	44.3	27.2	–	9.9	100 ± 22	17.0

Cable passes -25°C Cold Bend per UL1581  
Installation Temperature: -10°C to +75°C  
Operating Temperature: -25°C to +75°C\*

Third party verified to TIA/EIA-568-B.2, Category 5e  
U.S. Patents 5,606,151 and 5,734,126  
Jacket sequentially marked at 0.6 m intervals.  
Color Code: see chart below

## Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper

<b>Plenum • FEP Insulation • Sunlight-, Oil- and Gas-Resistant Black FEP Jacket</b>																				
High & Low Temp Oil Res I & II Gas Res   4-Pair	7931A	NEC:	1000	305	35.1	15.9	0.57 mm	0.038	0.97	Bonded-Pair	0.214	5.44	1	2.0	72.3	70.3	64.8	100 ± 15	20.0	
		Limited					23 AWG			Unshielded				10	6.0	57.3	51.3	44.8	100 ± 15	25.0
		Combustible					Solid BC							20	8.5	52.8	44.3	38.7	100 ± 15	25.0
		FHC 25/50												31.25	10.7	49.9	39.2	34.9	100 ± 15	23.6
		CMP												62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
		CEC:												100	19.8	42.3	22.5	24.8	100 ± 15	20.1
		CMP FT6												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		

Cable passes -70°C Cold Bend per UL1581  
Installation Temperature: -55°C to +150°C  
Operating Temperature: -70°C to +150°C\*

RJ-45 Compatible  
Third party verified to TIA/EIA-568-B.2-1, Category 6 • U.S. Patents 5,606,151 and 5,734,126  
Jacket sequentially marked at 0.6 m intervals.  
Color Code: see chart below

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.

## 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 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 Ethernet Cables

Coaxial 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

**Thinnest 10Base2 Ethernet • 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	<b>9907</b>	NEC:	500	152	12.6	5.7	0.94 mm	0.102	2.59	Duobond® II	0.185	4.70	50	80%	25.4	83.3	1	0.4	1.4	
	UL AWM Style 1354		CL2	U-1000	U-305	25.1	11.4	20 AWG			+ 93% TC							10	1.3	4.3	
			CM	1000	305	25.1	11.4	(19x32) TC			Braid								50	2.9	9.5
			CEC:	1640	500	41.0	18.6	47.9 Ω/km*			19.0 Ω/km***								100	4.2	13.8
			CM	3280	1000	82.2	37.3	28.9 Ω/km**											200	6.1	20.0
																		400	8.9	29.2	
																		700	12.1	39.7	
																		900	13.9	45.6	
																		1000	14.8	48.6	

DEC Part No. 17-01248-00

Plenum • Ethernet • Foam FEP Insulation • Grey Fluorocopolymer Jacket																					
	300V 150°C	<b>89907</b>	NEC:	† 500	152	12.6	5.7	0.94 mm	0.095	2.41	Duobond® II	0.160	4.06	50	80%	25.4	83.3	1	0.4	1.4	
			CL2P	† 1000	305	24.0	10.9	20 AWG			+ 93% TC								10	1.3	4.3
			CMP	† 2500	762	60.2	27.3	(19x32) TC			Braid								50	2.9	9.5
			CEC:					47.9 Ω/km*			19.0 Ω/km***								100	4.2	13.8
			CMP					28.9 Ω/km**											200	6.1	20.0
																		400	9.2	30.2	
																		700	12.9	42.3	
																		900	15.0	49.2	
																		1000	16.0	52.5	

RG-58/U Type

DEC Part No. 17-01248-00

Suitable for outdoor and direct burial applications.

**Thickest 10Base5 Ethernet • 12 AWG • Solid 2.1 mm Bare Copper • Duobond® IV Quad Shield**

Ethernet • Foam PE Insulation • Yellow PVC Jacket																					
	30V 60°C	<b>9880</b>	NEC:	500	152	66.1	30.0	2.05 mm	0.243	6.17	Duobond® IV	0.405	10.29	50	78%	25.9	85.3	1	0.2	0.6	
	UL AWM Style 1478		CL2	1000	305	131.2	59.5	12 AWG			Quad Shield								5	0.4	1.2
			CM	1640	500	220.2	99.9	Solid BC			5.0 Ω/km***								10	0.5	1.7
			CEC:					9.7 Ω/km*											50	1.2	3.9
			CM					4.7 Ω/km**											100	1.7	5.6
																		200	2.6	8.4	
																		400	3.9	12.8	
																		700	5.5	18.1	
																		900	6.5	21.3	
																		1000	6.9	22.6	

DEC Part No. 17-00451-00

Ring-band stripes marked every 2.5 m to aid users in tap placement.

Plenum • Foam FEP Insulation • Orange Fluorocopolymer Jacket																					
	150°C	<b>89880</b>	NEC:	1000	305	134.3	60.9	2.05 mm	0.245	6.22	Duobond® IV	0.375	9.53	50	78%	25.9	85.3				
			CL2P	†† 1640	500	225.1	102.1	12 AWG			Quad Shield										see above
			CMP					Solid BC			5.0 Ω/km***										
			CEC:					9.7 Ω/km*													
			CMP FT6					4.7 Ω/km**													

DEC Part No. 17-00324-00

Ring-band stripes marked every 2.5 m to aid users in tap placement. Suitable for outdoor and direct burial applications.

\* DC loop resistance • \*\* DC resistance inner conductor • \*\*\* DC resistance outer conductor • TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

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

†† Final put-up length may vary from length shown ±10% for spools and reels, ±5% for UnReel® cartons.

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

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	<b>9463</b>	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	<b>9463NH</b>	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	<b>9463LS</b>	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	<b>9463DB</b>		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	<b>9463F</b>	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**

<b>Plenum • FEP Insulation • Blue FEP Jacket</b>																						
<p>Z-Fold®</p>	300V 200°C	<b>89463</b>	NEC:	1000	305	34.0	15.4	0.96 mm	0.073	1.85	Overall	0.203	5.16	78	66%	19.7	64.6	1	0.6	2.0		
	High Temperature		CMP CL2P	2500	762	90.2	40.9	20 AWG			Beldfoil®								10	2.1	6.9	
				CEC:					(7x28) TC			+ Overall								50	5.0	16.4
				CMP FT6								76% TC Braid								100	7.5	24.6
												+ Drain Wire								200	11.0	36.1
											(20 AWG TC)								400	16.0	52.5	

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**

<b>Polyethylene Insulation • Blue PVC Inner Jacket • Aluminum Interlocked Armor • Blue Sunlight-Resistant PVC Outer Jacket</b>																						
	300V 60°C	<b>129463</b>	NEC:	1000	305	122.4	55.5	0.96 mm	0.076	1.92	Overall	*0.238	*6.05	78	66%	19.7	64.6			see above		
	Aluminum Armored		CM CL2	6000	1829	925.9	420.0	20 AWG			Beldfoil®	**0.563	**14.30									
				CEC:					(7x28) TC			+ Overall										
				CM								55% TC Braid										
				CMG FT4								+ Drain Wire										
			HLBCD								(20 AWG TC)											
			(Haz Loc)																			

\* Over Armor  
\*\* Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

<b>Polyethylene Insulation • Blue PVC Inner Jacket • Steel Armor • Blue Sunlight-Resistant PVC Outer Jacket</b>																						
	300V 60°C	<b>139463</b>	NEC:	1000	305	220.5	100.0	0.96 mm	0.076	1.92	Overall	*0.238	*6.05	78	66%	19.7	64.6			see above		
	Steel Armored		CM CL2	6000	1829	1491.2	676.4	20 AWG			Beldfoil®	**0.563	**14.30									
				CEC:					(7x28) TC			+ Overall										
				CM								55% TC Braid										
				CMG FT4								+ Drain Wire										
			HLBCD								(20 AWG TC)											
			(Haz Loc)																			

\* Over Armor  
\*\* Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

<b>Polyethylene Insulation • Blue PVC Inner Jacket • Continuously Corrugated Aluminum Armor • Blue Sunlight-Resistant PVC Outer Jacket</b>																						
	300V 60°C	<b>189463</b>	NEC:	2000	610	258.2	117.1	0.96 mm	0.076	1.92	Overall	*0.238	*6.05	78	66%	19.7	64.6			see above		
	Continuously Armored		PLTC					20 AWG			Beldfoil®	**0.500	**12.70									
									(7x28) TC			+ Overall										
												55% TC Braid										
												+ Drain Wire										
											(20 AWG TC)											

\* 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

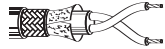
Twinaxial Cables



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 Duofoil® + Overall 86% TC Braid	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	10	1.2											3.9		
		CEC:	500	152	34.6	15.7	(7x28) TC + BC															
		CMG FT4	1000	305	68.1	30.9	50														2.8	9.2
			1640	500	111.8	50.7																
			2000	610	136.2	61.8																
			3280	1000	220.2	99.9																
	5000	1524	350.8	159.1																		

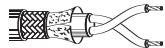


Color Code: Clear, Clear

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 Duofoil® + Overall 86% TC Braid	0.339	8.60	100	66%	14.5	47.6			see above
		BS 7655	1640	500	69.9	31.7	20 AWG												
			3280	1000	143.7	65.2	(7x28) TC + BC												



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 UL AWM Style 2448	9860	NEC:	500	152	52.0	23.6	1.29 mm	0.161	4.09	Overall Duofoil® + Overall 90% TC Braid	0.440	11.18	124	78%	10.9	35.8	1	0.2	0.6			
		CMX	1000	305	103.2	46.8	16 AWG	10	0.7											2.3		
		CEC:	2000	610	202.4	91.8	Solid BC															
		CMX					50														1.8	5.9



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 Duofoil® + Overall 90% TC Braid	0.441	11.20	124	78%	10.9	35.8			see above
		BS 7655	3280	1000	354.9	161.0	16 AWG												
							Solid BC												



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 Duofoil® + Overall 90% TC Braid	*0.441	*11.20	124	78%	10.9	35.8			see above
		332-3C	3280	1000	1262.6	572.7	16 AWG												
		BS 7655					Solid BC												



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 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.

**22 AWG • Stranded (19x34) 0.8 mm Tinned Copper • Duofoil® • 22 AWG Tinned Copper Drain Wire**

<b>Datalene® Insulation • Black PVC Jacket</b>																			
30V 60°C	<b>9182</b>	NEC:	U-500	U-152	22.5	10.2	0.78 mm	0.137	3.49	Overall	0.345	8.76	150	78%	8.8	28.9	1	0.4	1.3
UL AWM Style 2668		CL2X CMX	500	152	22.9	10.4	22 AWG			Duofoil®							10	1.2	3.9
		CEC:	1000	305	44.1	20.0	(19x34) TC			+ Drain Wire							50	2.7	8.9
		CMX								(22 AWG TC)							100	4.3	14.1
																	200	6.2	20.3
																	400	8.8	28.9



VW-1

Color Code: Black, Yellow

Dual version: YR41609  
CPE jacket optional.

**Datalene® Insulation • Black FRNC/LSNH Jacket**

300V 80°C	<b>9182NH</b>	IEC 332-1	1000	305	50.3	22.8	0.78 mm	0.136	3.45	Overall	0.346	8.80	150	78%	8.8	28.9	1	0.4	1.3
		BS 7655	1640	500	80.0	36.3	22 AWG			Duofoil®							5	0.9	2.8
			3280	1000	150.1	68.1	(19x34) TC			+ Drain Wire							10	1.2	3.9
										(22 AWG TC)							20	1.7	5.6
																	50	2.7	8.9
																	100	4.3	14.1
																	200	6.2	20.3
																	400	8.8	28.9



Color Code: Black, Yellow

**Plenum • Foam FEP Teflon® Insulation • Black FEP Teflon® Jacket**

	<b>89182</b>	NEC:	100	31	6.4	2.9	0.78 mm	0.139	3.53	Overall	0.307	7.80	150	78%	8.8	28.9	1	0.4	1.3
		CMP	† 500	152	28.0	12.7	22 AWG			Duofoil®							10	1.2	3.9
		CL2P	† 1000	305	53.1	24.1	(19x34) TC			+ Drain Wire							50	2.7	8.9
		CEC:								(22 AWG TC)							100	4.3	14.1
		CMP FT6															200	6.2	20.3
																	400	8.8	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 Twinax**

DataTray® 600V 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.

**18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • Beldfoil® • 55 % Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire**

<b>Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket</b>																			
600V 75°C UL Type TC	<b>3072F</b>	NEC:	250	76	17.6	8.0	1.22 mm	0.096	2.44	Overall Beldfoil®	0.324	8.23	78	65%	19.5	64.0	1	0.5	1.7
		CMG, ITC	500	152	35.1	15.9	18 AWG			+ Overall							10	2.0	6.6
		TC, PLTC	1000	305	69.0	31.3	(7x26) TC			55% TC Braid							50	3.8	12.4
		CEC:	2500	762	170.2	77.2				+ Drain Wire							100	5.4	17.6
		CMG FT4	5000	1524	345.2	156.6				(20 AWG TC)							200	7.6	24.8
			10000	3049	710.5	322.3											400	10.7	35.1



Z-Fold®

VW-1

Color Code: Natural, Blue

For CPE jacketed version order Part No. YM45044 P-MSHA-C-7K-1827\*

<b>Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket</b>																			
600V 75°C UL Type TC	<b>3073F</b>	NEC:	250	76	20.9	9.5	1.22 mm	0.123	3.12	Overall Beldfoil®	0.388	9.86	100	65%	15.3	50.2	1	0.4	1.3
		CMG, ITC	1000	305	85.1	38.6	18 AWG			+ Overall							10	1.3	4.4
		TC, PLTC	5000	1524	420.4	190.7	(7x26) TC			55% TC Braid							50	3.0	9.7
		CEC:								+ Drain Wire							100	4.2	13.8
		CMG FT4								(20 AWG TC)							200	5.9	19.5
																	400	7.5	24.7



Z-Fold®

Color Code: Natural, Blue

CPE jacket optional.

<b>Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket</b>																			
600V 75°C UL Type TC	<b>3074F</b>	NEC:	500	152	62.6	28.4	1.22 mm	0.164	4.17	Overall Beldfoil®	0.460	11.68	124	65%	12.3	40.3	1	0.3	1.1
		CMG, ITC	1000	305	121.0	54.9	18 AWG			+ Overall							10	1.1	3.5
		TC, PLTC	2500	762	300.3	136.2	(7x26) TC			55% TC Braid							50	2.4	7.8
		CEC:								+ Drain Wire							100	3.4	11.1
		CMG FT4								(20 AWG TC)							200	4.8	15.7
																	400	6.8	22.2



Z-Fold®

Color Code: Natural, Blue

CPE jacket optional.


TC = Tinned Copper • DCR = DC resistance

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

## Industrial Data Solutions® – Industrial Coax

## ControlNet™ Quad Shielded Coax



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		
<b>18 AWG • Solid 1.0 mm Copper-Covered Steel • Duobond® IV Quad Shield</b>																					
<b>Foam Polyethylene Insulation • PVC Jacket (Black or Intrinsically Safe Blue)</b>																					
	<b>3092A</b>	NEC:	500	152	20.1	9.1	1.02 mm	0.180	4.57	Duobond® IV	0.298	7.57	75	82%	16.2	53.1	1	0.3	1.1		
		CL2R CMR	1000	305	39.0	17.7	18 AWG			Quad Shield								2	0.4	1.2	
		CEC:	2000	610	78.0	35.4	Solid CCS			11.8 Ω/km***								5	0.5	1.5	
		CMG FT4	2500	762	92.6	42.0	103.6 Ω/km*											10	0.6	1.9	
							91.8 Ω/km**												20	0.9	2.8
																			50	1.4	4.5
RG-6/U Type																	100	2.0	6.5		
																	200	2.8	9.3		
																	300	3.5	11.4		
																	400	4.1	13.3		
Sweep tested 5 MHz to 50 MHz. CPE jacket optional. For Rockwell authorized flexible ControlNet™ order YR28890 (Tinned Copper Braid version).																					
<b>Plenum • Foam FEP Insulation • Fluorocopolymer Jacket (Black or Intrinsically Safe Blue)</b>																					
150°C	<b>3093A</b>	NEC:	1000	305	40.1	18.2	1.02 mm	0.170	4.32	Duobond® IV	0.274	6.96	75	82%	16.3	53.5	1	0.4	1.2		
		CMP	† 2000	610	80.0	36.3	18 AWG			Quad Shield							2	0.4	1.2		
		CEC:	† 2500	762	95.0	43.1	Solid CCS			11.8 Ω/km***							5	0.5	1.6		
		CMP FT6					103.6 Ω/km*										10	0.6	2.1		
							91.8 Ω/km**										20	0.9	3.1		
																	50	1.5	4.9		
																	100	2.1	7.0		
																	200	3.0	9.8		
RG-6/U Type																	300	3.7	12.0		
																	400	4.2	13.9		
Sweep tested 5 MHz to 50 MHz. Allen-Bradley P/N 1786 Blue available as standard in 305 m only. Suitable for outdoor and direct burial applications																					
<b>18 AWG • Stranded (105x40) 1.0 mm Bare Copper • Duobond® IV Quad Shield</b>																					
<b>Foam Polyethylene Insulation • Black PVC Jacket</b>																					
High-Flex	<b>3092F</b>	NEC:	1000	305	44.1	20.0	1.02 mm	0.183	4.65	Duobond® IV	0.303	7.70	75	79%	17.0	55.8	1	0.4	1.2		
		CL2R CMR	5000	1524	220.0	99.8	18 AWG			Quad Shield							2	0.5	1.5		
		CEC:					(105x40) BC			11.8 Ω/km***							5	0.8	2.6		
		CMR FT4					46.2 Ω/km*										10	1.2	3.9		
							34.4 Ω/km**										20	2.0	6.6		
																	50	3.2	10.5		
																	100	4.6	15.1		
																	200	6.5	21.3		
RG-6/U Type																	300	8.0	26.2		
																	400	9.3	30.5		
Sweep tested 5 MHz to 400 MHz. 123092F – Aluminum Armor Allen-Bradley P/N 1786 133092F – Steel Armor IEEE 802.4 MAP/IEEE 802.7 Mini-MAP. CPE jacket optional. For Rockwell authorized flexible ControlNet™ order YR28890 (Tinned Copper Braid version).																					

\* DC loop resistance • \*\* DC resistance inner conductor • \*\*\* DC resistance outer conductor • BC = Bare Copper • CCS = Copper-Covered Steel • DCR = DC resistance  
† Final put-up length may vary 0% to +10% from length shown.

Duobond® IV see technical information page 23.13.

ControlNet™ is a ControlNet International trademark.

**Industrial Data Solutions® – Industrial Coax**


**ControlBus™ Quad Shielded Coax**




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

**18 AWG • Solid 1.0 mm Copper-Covered Steel • Duobond® IV Quad Shield**

**Gas-Injected Foam Polyethylene Insulation • Grey PVC Jacket**


	3131A	NEC:	1000	305	41.0	18.6	1.02 mm	0.180	4.57	Duobond® IV Quad Shield 11.8 Ω/km***	0.300	7.62	75	82%	16.2	53.1	1	0.3	1.1
		CL2R CMR	2500	762	100.1	45.4	18 AWG										2	0.4	1.2
		CEC:					Solid CCS										5	0.5	1.5
		CMG FT4					103.6 Ω/km*										10	0.6	1.9
							91.8 Ω/km**										20	0.9	2.8
																	50	1.4	4.5
RG-6/U Type																			
Sweep tested 5 MHz to 400 MHz. CPE jacket optional.																			
IEEE 802.4 MAP/IEEE 802.7 Mini-MAP Tap marks every 2.6 m to aid users in installation.																			

**Plenum • Foam FEP Insulation • Grey Fluorocopolymer Jacket**


	150°C 3132A	NEC:	1000	305	36.2	16.4	1.02 mm	0.170	4.32	Duobond® IV Quad Shield 11.8 Ω/km***	0.274	6.96	75	82%	16.3	53.5	1	0.4	1.2
		CMP					18 AWG										2	0.4	1.2
		CEC:					Solid CCS										5	0.5	1.6
		CMG FT6					103.6 Ω/km*										10	0.6	2.1
							91.8 Ω/km**										20	0.9	3.1
																	50	1.5	4.9
RG-6/U Type																			
Sweep tested 5 MHz to 400 MHz. Tap marks every 2.6 m to aid users in installation.																			
IEEE 802.4 MAP/IEEE 802.7 Mini-MAP Suitable for outdoor and direct burial applications.																			

**14 AWG • Solid 1.6 mm Copper-Covered Steel • Duobond® IV Quad Shield**

**Gas-Injected Foam Polyethylene Insulation • Grey PVC Jacket**

	3094A	NEC:	500	152	35.5	16.1	1.63 mm	0.280	7.11	Duobond® IV Quad Shield 4.9 Ω/km***	0.407	10.34	75	82%	16.2	53.1	1	0.2	0.5
		CL2R CMR	1000	305	61.9	28.1	14 AWG										2	0.2	0.6
		CEC:	2500	762	140.2	63.6	Solid CCS										5	0.3	0.9
		CMG FT4					41.0 Ω/km*										10	0.4	1.2
							36.1 Ω/km**										20	0.5	1.8
																	50	0.8	2.7
RG-11/U Type																			
Sweep tested 5 MHz to 400 MHz. CPE jacket optional.																			
IEEE 802.4 MAP Tap marks every 2.6 m to aid users in installation.																			

**Plenum • Foam FEP Insulation • Grey Fluorocopolymer Jacket**

	150°C 3095A	NEC:	1000	305	76.1	34.5	1.63 mm	0.280	7.11	Duobond® IV Quad Shield 12.8 Ω/km***	0.387	9.83	75	82%	16.5	54.1	1	0.2	0.6
		CMP					14 AWG										2	0.2	0.7
		CEC:					Solid CCS										5	0.3	0.9
		CMG FT6					48.9 Ω/km*										10	0.4	1.3
							36.1 Ω/km**										20	0.6	2.0
																	50	1.2	3.9
RG-11/U Type																			
Sweep tested 5 MHz to 400 MHz. Tap marks every 2.6 m to aid users in installation.																			
IEEE 802.4 MAP Suitable for outdoor and direct burial applications.																			

\* DC loop resistance • \*\* DC resistance inner conductor • \*\*\* DC resistance outer conductor • CCS = Copper-Covered Steel • DCR = DC resistance  
Duobond® IV 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	<b>3076F</b>	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	<b>3076NH</b>	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	<b>3076LS</b>	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	<b>3077F</b>	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	<b>3077NH</b>	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	<b>3077LS</b>	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

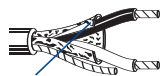
DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables



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 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
300V 75°C	PLTC CM	500	152	22.9	10.4	22 AWG			Beldfoil®			1 MHz				0.625	0.3	0.9
(1.0 & 2.5 Mbits/sec)	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

DeviceBus® for ODVA DeviceNet™ Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Color Code	Nominal OD		Compo- nent	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm

**600V Class 1 Thick • 15 AWG and 18 AWG • Stranded Tinned Copper • Beldfoil® • 18 AWG TC Drain Wire • Overall 65% TC Braid****PVC/Nylon Insulation (Power) • FEP Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket**

High Velocity Thick 600V 75°C	<b>7897A</b>	NEC:	500	152	69.7	31.6	Red, Black	0.461	11.70	Power	2-Conductor 15 AWG 1.7 mm (19x28) TC	Individual Beldfoil®	PVC/Nylon			0.099	2.51
		TC-ER	1000	305	135.1	61.3											
			2000	610	274.3	124.4											



Blue, White	Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FEP		0.146	3.71
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Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-A

**600V Class 1 ODVA Cable V • 16 AWG and 18 AWG • Stranded TC • Beldfoil® • 16 AWG TC Drain Wire • Overall 65% TC Braid****PVC/Nylon Insulation (Power) • F-R Polypropylene Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket**

600V 75°C	<b>7896A</b>	NEC:	500	152	89.1	40.4	Red, Black	0.525	13.34	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Individual Beldfoil®	PVC/Nylon			0.101	2.57
		TC-ER	1000	305	168.0	76.2											
			2000	610	339.9	154.2											



C(UL) AWM I/II A/B

Blue, White	Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 64% 120 Ohm	Individual Beldfoil®	F-R PP		0.182	4.62
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Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-A

**600V Class 1 ODVA IV • 16 AWG and 18 AWG • Stranded Tinned Copper • Unshielded****PVC/Nylon Insulation (Power) • F-R Polypropylene Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket**

Drop 600V 75°C	<b>7900A</b>	NEC:	500	152	50.9	23.1	Red, Black	0.430	10.92	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC/Nylon			0.101	2.57
		TC-ER	1000	305	104.9	47.6											



Blue, White	Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 64% 120 Ohm	Unshielded	F-R PP		0.098	2.49
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Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-C

**600V Class 2 Thick • 15 AWG and 18 AWG • Stranded Tinned Copper • Beldfoil® • 18 AWG TC Drain Wire • Overall 65% TC Braid****PVC Insulation (Power) • FPE Insulation (Data) • Sunlight/Oil-Resistant PVC Jacket (Grey and Red)**

Thick 75°C UL AWM 20201	<b>3082A</b>	NEC:	500	152	71.0	32.2	Red, Black	0.480	12.19	Power	2-Conductor 15 AWG 1.7 mm (19x28) TC	Individual Beldfoil®	PVC			0.109	2.77
		CMG	1000	305	138.0	62.6											
		PLTC-ER CEC: CMG FT4	2000	610	280.0	127.0											



C(UL) AWM I/II A

Blue, White	Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE		0.150	3.81
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Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-A  
152 m and 610 m put-ups not available in Red.

TC = Tinned Copper • DCR = DC resistance

ODVA DeviceNet™ is an Open DeviceNet Vendor Association Inc. trademark.




## Industrial Data Solutions® – Industrial Data

DeviceBus® for ODVA DeviceNet™ Cables




De-scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Color Code	Nominal OD		Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors		Insulation OD	
			ft.	m	lbs.	kg		inch	mm					inch	mm		

**300V Class 2 Thick • 15 AWG and 18 AWG • Stranded Tinned Copper • Beldfoil® • 18 AWG TC Drain Wire • Overall 65% TC Braid**


PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																	
High-Flex Thick 75°C UL AWM 20201	3082F	NEC:	500	152	72.5	32.9	Red, Black	0.480	12.19	Power	2-Conductor 15 AWG 1.7 mm (65x33) TC	Individual Beldfoil®	PVC		0.109	2.77	
		CMG	1000	305	140.0	63.5											
		PLTC-ER CEC: CMG FT4	2000	610	284.0	128.8											
 C(UL) AWM I/II A																	

Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-A  
152 m and 610 m put-ups not available in Red.


PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket																		
Thick 75°C	3083A	NEC:	1000	305	136.9	62.1	Red, Black	0.475	12.07	Power	2-Conductor 15 AWG 1.7 mm (19x28) TC	Individual Beldfoil®	PVC		0.109	2.77		
		CMG	2000	610	278.0	126.1												
		PLTC CEC: CMG FT4																
 C(UL) AWM I/II A																		

Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-A

**300V Class 2 Thin • 22 AWG and 24 AWG • Stranded Tinned Copper • Beldfoil® • 22 AWG TC Drain Wire • Overall 65% TC Braid**

PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																			
Thin 75°C	3084A	NEC:	500	152	22.0	10.0	Red, Black	0.280	7.11	Power	2-Conductor 22 AWG 0.78 mm (19x34) TC	Individual Beldfoil®	PVC		0.072	1.83			
		CL2 CMG	1000	305	47.0	21.3													
		CEC: CMG FT4	2000	610	96.1	43.6													
 C(UL) AWM I/II A																			

Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-C  
305 m put-up also available in Red.

PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																				
High-Flex Thin 75°C	3084F	NEC:	500	152	22.0	10.0	Red, Black	0.275	6.99	Power	2-Conductor 22 AWG 0.76 mm (154x44) TC	Individual Beldfoil®	PVC		0.062	1.57				
		CL2 CMG	1000	305	47.0	21.3														
		CEC: CMG FT4	2000	610	96.1	43.6														
 C(UL) AWM I/II A																				

Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-C

TC = Tinned Copper • DCR = DC resistance

ODVA DeviceNet™ is an Open DeviceNet Vendor Association Inc. trademark.

## Industrial Data Solutions® - Industrial Data

DeviceBus® for ODVA DeviceNet™ Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Color Code	Nominal OD		Compo- nent	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD		
			ft.	m	lbs.	kg		inch	mm						inch	mm	
<b>300V Class 2 Thin • 22 AWG and 24 AWG • Stranded Tinned Copper • Beldfoil® • 22 AWG TC Drain Wire • Overall 65% TC Braid</b>																	
<b>PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket</b>																	
Thin 75°C	3085A	NEC:	500	152	25.1	11.4	Red, Black	0.280	7.11	Power	2-Conductor 22 AWG 0.78 mm (19x34) TC	Individual Beldfoil®	PVC			0.072	1.83
		CL2 CMG	1000	305	47.2	21.4											
		CEC:	2000	610	96.1	43.6											
		CMG FT4															
							Blue, White			Data	2-Conductor 24 AWG 0.61 mm (19x36) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.077	1.96
Meter marks on jacket to aid users in installation. Allen-Bradley P/N 1485 CPI-C																	
<b>300V Class 2 ODVA Cable III • 20 AWG and 18 AWG • Stranded TC • Beldfoil® • 20 AWG TC Drain Wire • Overall 65% TC Braid</b>																	
<b>PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket</b>																	
Mid 75°C	7895A	NEC:	500	152	41.0	18.6	Red, Black	0.378	9.60	Power	2-Conductor 20 AWG 0.94 mm (19x32) TC	Individual Beldfoil®	PVC			0.080	2.03
		UL AWM 20201 (600V)	1000	305	84.0	38.1											
		CMG															
		PLTC															
		CEC:															
		CMG FT4															
							Blue, White			Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.129	3.28
Meter marks on jacket to aid users in installation.																	
<b>Flat • 16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Unshielded</b>																	
<b>PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket</b>																	
Class 2	3082K	NEC:	246	75	30.9	14.0	Red, Black	0.430	10.92	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC			0.110	2.80
		300V 75°C	CMG CL2	656	200	78.7											
		PLTC	1378	420	165.6	75.1											
		CEC:															
		CMG FT4															
							Blue, White			Data	2-Conductor 16 AWG 1.47 mm (19x29) TC VOP: 75% 120 Ohm	Unshielded	FPE			0.110	2.80
Allen-Bradley P/N 1485 CPI-G																	
<b>PVC Insulation (Power) • Black Sunlight-Resistant PVC Jacket</b>																	
Class 1	3082KP	NEC:	246	75	32.0	14.5	Red, Black	0.430	10.92	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC			0.110	2.80
		Power	CMG ITC	656	200	81.3											
		600V 75°C	PLTC TC	1378	420	171.1	77.6										
		CEC:															
		CMG FT4															
							Blue, White			Data	2-Conductor 16 AWG 1.47 mm (19x29) TC VOP: 75% 120 Ohm	Unshielded	PVC			0.110	2.80
Allen-Bradley P/N 1485 CPI-G																	

TC = Tinned Copper • DCR = DC resistance

ODVA DeviceNet™ is an Open DeviceNet Vendor Association Inc. trademark.

**Industrial Data Solutions® – Industrial Data**

DeviceBus® for Honeywell Smart Distributed System Cables



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Color Code	Nominal OD		Compo- nent	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm

**22 AWG • Stranded Tinned Copper • Each Pair Individually Beldfoil® Shielded • 22 AWG Tinned Copper Drain Wire****PVC Insulation (Power) • FPE Insulation (Data) • Grey PVC Jacket**

30V 80°C UL AWM Style 2464	<b>3087A</b>	NEC: CL2 CEC: FT1	500 1000 2000	152 305 610	19.0 41.0 84.0	8.6 18.6 38.1	Blue, Brown	0.290	7.37	Power	2-Conductor 22 AWG 0.78 mm (19x34) TC	Individual Beldfoil®	PVC		0.050	1.27
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							Black, White			Data	2-Conductor 22 AWG 0.78 mm (19x34) TC VOP: 76 % 120 Ohm	Individual Beldfoil®	FPE		0.098	2.49
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CSA AWM I/II A  
Micro Cable (Drop)

Honeywell Smart Distributed System

**16 AWG and 20 AWG • Stranded Tinned Copper • Each Pair Individually Beldfoil® Shielded • 20 AWG Tinned Copper Drain Wire****PVC Insulation (Power) • FPE Insulation (Data) • Grey PVC Jacket**

30V 80°C UL AWM Style 2464	<b>3086A</b>	NEC: CL2 CEC: FT1	500 1000	152 305	43.4 88.0	19.7 39.9	Blue, Brown	0.398	10.11	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Individual Beldfoil®	PVC		0.090	2.29
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							Black, White			Data	2-Conductor 20 AWG 0.94 mm (19x32) TC VOP: 76 % 120 Ohm	Individual Beldfoil®	FPE		0.120	3.05
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CSA AWM I/II A  
Mini Cable (Trunk)

Honeywell Smart Distributed System

TC = Tinned Copper • DCR = DC resistance

## Industrial Data Solutions® - Industrial Data

## DeviceBus® for Square D/Seriplex® Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Color Code	Nominal OD		Compo- nent	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm

**18 AWG and 22 AWG • Stranded Tinned Copper • Overall Beldfoil® • 22 AWG Tinned Copper Drain Wire****Foam HDPE Insulation (Power) • Foam HDPE Insulation (Data) • Orange PVC Jacket**

	600V 75°C	<b>3124A</b>	NEC: CL2 CM	1000	305	47.0	21.3	Red, Black	0.308	7.82	Power	2-Conductor 18 AWG 1.2 mm (16x30) TC	Unshielded	Foam HDPE		0.098	2.49
	UL AWM Style 20201		CEC: CM					White, Green			Data	2-Conductor 22 AWG 0.76 mm (7x30) TC VOP: 78%	Unshielded	Foam HDPE		0.092	2.34

Seriplex® CBL 1822-P18

**16 AWG and 22 AWG • Stranded Tinned Copper • Overall Beldfoil® • 22 AWG Tinned Copper Drain Wire****Foam HDPE Insulation (Power) • Foam HDPE Insulation (Data) • Orange PVC Jacket**

	300V 75°C	<b>3125A</b>	NEC: CL2 CM	500	152	31.5	14.3	Red, Black	0.368	9.35	Power	2-Conductor 16 AWG 1.5 mm (26x30) TC	Unshielded	Foam HDPE		0.110	2.79
			CEC: CM	1000	305	63.1	28.6	White, Green			Data	2-Conductor 22 AWG 0.76 mm (7x30) TC VOP: 78%	Unshielded	Foam HDPE		0.110	2.79

Seriplex® CBL 1622-P1

**16 AWG, 22 AWG and 12 AWG • Stranded Tinned Copper • Twisted Pair • Overall Beldfoil® • 22 AWG Tinned Copper Drain Wire****Foam HDPE Insulation (Control) • Foam HDPE Insulation (Data) • PVC Insulation (Power) • Orange PVC Jacket**

	300V 75°C	<b>3126A</b>	NEC: CL2 CM	1000	305	112.0	50.8	Red, Black	0.486	12.34	Control	2-Conductor 16 AWG 1.5 mm (26x30) TC VOP: 78%	Unshielded	Foam HDPE		0.110	2.79
			CEC: CM						x	x							
									0.363	9.22		2-Conductor 22 AWG 0.76 mm (7x30) TC VOP: 78%	Unshielded	Foam HDPE		0.110	2.79
								Black/White, Red/White			Power	2-Conductor 12 AWG 2.41 mm (65x30) TC VOP: 48%	Unshielded	PVC		0.123	3.12

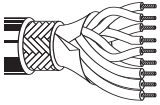
Seriplex® CBL 162212-P16

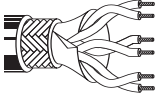
TC = Tinned Copper • DCR = DC resistance

Seriplex® is a Square D/Schneider AEG registered trademark.

**Industrial Data Solutions® – Industrial Data**  
 DeviceBus® for Phoenix Contact InterBus®-S Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Color Code	Nominal OD		Compo- nent	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm
<b>18 AWG and 24 AWG • Stranded Tinned Copper • Overall Beldfoil® + 90% Tinned Copper Braid</b>																
<b>PVC Insulation (Power) • Polyethylene Insulation (Data) • Green Polyurethane Jacket</b>																
300V 80°C UL AWM Style 20233	<b>3119A</b>		500 1000	152 305	35.5 71.0	16.1 32.2	Red, Blue and Green (with Yellow Stripe)	0.333	8.46	Control	3-Conductor 18 AWG 1.22 mm (7x26) TC	Unshielded	PVC		0.066	1.68
							White/Brown, Pink/Grey, Yellow/Green			Power	3-Pair 24 AWG 0.61 mm (7x32) TC VOP: 66% 100 Ohm	Unshielded	PE		0.056	1.42

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	
<b>24 AWG • Stranded (7x32) 0.6mm Tinned Copper • Overall Beldfoil® + 90% Tinned Copper Braid</b>																	
<b>Polyethylene Insulation • Green Polyurethane Jacket</b>																	
300V 80°C UL AWM Style 20233	<b>3120A</b>		500 1000	152 305	26.0 48.9	11.8 22.2	0.61 mm 24 AWG (7x32) TC	0.056	1.42	Overall Beldfoil® + Overall 90% TC Braid	0.277	7.04	100	66%	15.4	50.5	White/Brown, Pink/Grey, Yellow/Green
																	
3-Pair																	

TC = Tinned Copper • DCR = DC resistance

InterBus® is a Phoenix Contact trademark.

Industrial Data Solutions® - Industrial Data

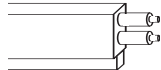
ASI Bus Flatcable



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.

**16 AWG • Stranded (84x0.15) 1.5 mm Tinned Copper**

PVC Insulation • Yellow TPE-O Jacket																			
300V 80°C	3999E		328	100	63.9	29.0	1.5 mm 16 AWG (84x0.15) TC	0.096	2.45	Unshielded	0.157	4.00							
											x	x							
											0.394	10.00							



2-Conductor

Color Code: Blue, Brown

Industrial Data Solutions® - Industrial Data

EIA Industrial RS-485 PLTC/CM

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® • 90% Tinned Copper Braid • 22 AWG Tinned Copper Drain Wire**

**Datalene® Insulation • Black UV Resistant Jacket (CPE Jacket Optional)**

300V Oil Res II		NEC: CM PLTC CEC: CM FT1					0.76 mm 22 AWG (7x30) TC	0.087	2.21	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (22 AWG TC)			120	78%				
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<b>3105A</b>	1-Pair DMX512 Type	500 1000 † 5000	152 305 1524	23.0 50.0 255.2	10.4 22.7 115.8						0.284	7.21			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	see chart below
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For CPE jacketed version order Part No. YR44345.

<b>3106A</b>	1.5-Pair*	500 1000 † 5000	152 305 1524	27.1 51.1 260.4	12.3 23.2 118.1						0.300	7.62			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	White/Orange, Orange/White Blue/White
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For CPE jacketed version order Part No. YR46721.

<b>3107A</b>	2-Pair DMX512 Type	1000 4000 † 5000	305 1,219 1524	69.1 300.2 385.3	31.3 136.2 174.8						0.356	9.04			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	see chart below
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For CPE jacketed version order Part No. YR46792.

<b>3108A</b>	3-Pair	1000 2000	305 610	93.0 184.0	42.2 83.5						0.420	10.67			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	see chart below
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For CPE jacketed version order Part No. YR45287.

<b>3109A</b>	4-Pair	1000 2000	305 610	107.2 218.2	48.6 99.0						0.420	10.67			CDR/CDR CDR/SCR	20.9 11.0	68.6 36.1	see chart below
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For CPE jacketed version order Part No. YR44768.

TC = Tinned Copper • DCR = DC resistance

† Final put-up length may vary 0% to +10% from length shown. • \* All conductors are under the braid shield; one pair is under the Beldfoil shield.

Color Code

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

Industrial Data Solutions® - Industrial Data

CC-Link 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 Bare Copper • Beldfoil® • 78% Tinned Copper Braid • 22 AWG Tinned Copper Drain Wire**

Foam HDPE Insulation • Red PVC Jacket																			
60°C	1348A	NEC: CM CEC: CM	1000	305	57.1	25.9	0.96 mm	0.094	2.39	Overall Beldfoil® + Overall 78% TC Braid + Drain Wire (22 AWG TC)	0.303	7.70	110	75%	18.3	60.0	1	0.5	1.6
			2000	610	114.2	51.8	20 AWG (7x28) BC										5	1.1	3.5



Color Code: Blue, White, Yellow

3 CDR

De-scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Color Code	Nominal OD		Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Insulation OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm

**Power Limited Tray Cable • 16 AWG and 22 AWG • Stranded Tinned Copper • Overall Beldfoil® • 22 AWG Tinned Copper Drain Wire**

PVC Insulation (Power) • Foam HDPE Insulation (Data) • Red UV Resistant PVC Jacket																
105°C	1349A	NEC: PLTC CM CEC: CM	1000	305	126.1	57.2	White, Black	0.512	13.00	Power	2-Conductor 18 AWG 1.22 mm (7x26) TC	Unshielded	PVC	-	0.091	2.31
							Blue, White and Yellow			Data	3-Conductor 20 AWG 0.96 mm (7x28) TC VOP: 76% 110 Ohm	Beldfoil® 78% TC + Drain Wire	HDPE	PVC	0.098	2.49

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

Industrial Data Solutions® - Industrial Data

LonWorks 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

22 AWG • Solid 0.6 mm Bare Copper • Twisted Pair

Foam Polyethylene Insulation • White FRNC/LSNH Jacket

80°C	7701NH	IEC	1000	305	10.6	4.8	0.64 mm	0.046	1.17	Unshielded	0.138	3.50	100	68%	14.0	46.0	1	0.4	1.3
		332-3C	1640	500	17.6	8.0	22 AWG	1	0.5						1.5				
		BS 7655					Solid BC	4	0.9						3.1				
								10	1.5						4.9				
								16	1.9						6.3				
									20	2.1	6.9								



1-Pair

Color Code: White/Blue, Blue/White

Foam Polyethylene Insulation • White FRNC/LSNH Jacket

80°C	7702NH	IEC	1000	305	19.6	8.9	0.64 mm	0.046	1.14	Unshielded	0.205	5.20	100	68%	14.0	46.0	see above		
		332-3C					22 AWG												
		BS 7655					Solid BC												



2-Pair

Color Code: White/Blue, Blue/White, Orange/White, White/Orange

22 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Beldfoil® • 24 AWG Tinned Copper Drain Wire

Foam Polyethylene Insulation • White FRNC/LSNH Jacket

80°C	7703NH	IEC	1000	305	17.9	8.1	0.64 mm	0.061	1.55	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.181	4.60	100	68%	24.4	80.0	1	0.5	1.8
		332-3C					22 AWG	1	0.6						2.0				
		BS 7655					Solid BC	4	1.1						3.6				
								10	1.7						5.5				
								16	2.1						7.0				
									20	2.4	7.8								



1-Pair

Color Code: White/Blue, Blue/White

Foam Polyethylene Insulation • White FRNC/LSNH Jacket

80°C	7704NH	IEC	1000	305	27.1	12.3	0.64 mm	0.053	1.35	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.256	6.50	100	68%	12.2	40.0	see above		
		332-3C	1640	500	44.3	20.1	22 AWG												
		BS 7655	3346	1020	88.6	40.2	Solid BC												



2-Pair

Color Code: White/Blue, Blue/White, Orange/White, White/Orange

16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2598	8471	NEC:	U-500	U-152	20.1	9.1	1.47 mm	0.105	2.67	Unshielded	0.274	6.96						
		CMG	500	152	20.1	9.1	16 AWG											
		CEC:	U-1000	U-305	39.0	17.7	(19x29) TC											
		CMG FT4	1000	305	40.1	18.2												



1-Pair

Color Code: Black, White

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



Industrial Data Solutions® - Industrial Data

LonWorks 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		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair**

**Polyethylene Insulation • Chrome FRNC/LSNH Jacket**

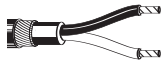
Part 1	<b>8471NH</b>	IEC 60332	1000	305	60.5	27.5	1.47 mm	0.105	2.67	Unshielded	0.280	7.10	Black, White
			1640	500	66.1	30.0	16 AWG						
			3280	1000	132.3	60.0	(19x29) TC						



1-Pair

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

Part 1	<b>8471LS</b>	IEC 60332	1000	305	248.9	112.9	1.47 mm	0.032	0.81	Unshielded	0.413	10.50	Black, White
			1640	500	407.9	185.0	16 AWG						
			3280	1000	815.7	370.0	(19x29) TC						



1-Pair

**Tefzel® Insulation • Clear Tefzel® Jacket**

300V RMS 80° VW-1	<b>85102</b>		500	152	20.1	9.1	1.47 mm	0.015	0.38	Unshielded	0.211	5.36	Black, White
			1000	305	33.1	15.0	16 AWG (19x29) TC						



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	<b>8719</b>	NEC: CM CL2 CEC: CM	U-500	U-152	24.5	11.1	1.47 mm	0.032	0.81	Overall Beldfoil® + Drain Wire (18 AWG TC)	0.313	7.95	Black, Clear
			500	152	24.5	11.1	16 AWG						
			U-1000	U-305	47.2	21.4	(19x29) TC						
			1000	305	49.2	22.3							
			2000	610	100.3	45.5							
5000	1524	245.6	111.4										
10000	3049	431.0	195.5										



1-Pair

TC = Tinned Copper • DCR = DC resistance

Tefzel® is a DuPont trademark.

**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)
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DMX 512	<b>9841</b>	1-Pair	100	31	4.9	2.2						0.232	5.89						
			500	152	20.1	9.1													
			1000	305	40.1	18.2													
	<b>9842</b>	2-Pair	100	31	5.7	2.6						0.340	8.64						
			500	152	29.5	13.4													
			1000	305	57.1	25.9													
	<b>9843</b>	3-Pair	100	31	7.1	3.2						0.360	9.14						
			500	152	34.6	15.7													
			1000	305	67.2	30.5													
	<b>9844</b>	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)
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	<b>9841NH</b>	1-Pair	1000	305	38.1	17.3						0.232	5.90						
			1640	500	65.0	29.5													
			3280	1000	124.8	56.6													
	<b>9842NH</b>	2-Pair	1000	305	64.4	29.2						0.341	8.65						
			1640	500	102.7	46.6													
			3280	1000	196.4	89.1													
	<b>9843NH</b>	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)
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	<b>9841LS</b>	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													
	<b>9842LS</b>	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**

<b>Datalene® Insulation • Chrome PVC Jacket</b>																			
300V 60°C	<b>9729</b>	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	<b>9729NH</b>	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												

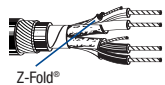


Z-Fold®

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	<b>9729LS</b>	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**

<b>Polypropylene Insulation • Chrome PVC Jacket</b>																			
30V 80°C	<b>8777</b>	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	<b>8777NH</b>	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**

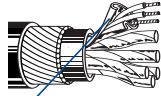
**Shielded Twisted Pair Cables**



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**

<b>Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket • Color Coded Foils (Red, Green, Blue)</b>																		
300V 80°C	<b>8777LS</b>	IEC	1640	500	290.3	131.7	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
		332-3C	3280	1000	712.5	323.2	22 AWG				**0.425	**10.80			CDR/SCR	55.0	180.4	Green, White
		BS 7655					(7x30) TC											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**

<b>Polypropylene Insulation • Chrome PVC Jacket</b>																		
300V RMS 60°C	<b>8723</b>	NEC:	100	31	2.2	1.0	0.76 mm	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.168	4.27	45	66%	CDR/CDR	35.0	115.0	Red, Black
		CM	U-500	U-152	10.6	4.8	22 AWG								CDR/SCR	62.0	203.0	Green, White
		CEC:	500	152	9.9	4.5	(7x30) TC											
		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.

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



2-Pair

Pairs cabled on common axis to reduce diameter.

<b>Polypropylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket</b>																		
300V 80°C	<b>8723LS</b>	IEC	1640	500	168.7	76.5	0.76 mm	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	*0.179	*4.55	45	66%	CDR/CDR	35.0	114.8	Red, Black
		332-3C	3280	1000	350.1	158.8	22 AWG				**0.346	**8.80			CDR/SCR	62.0	203.4	Green, White
		BS 7655					(7x30) TC											



2-Pair

\* Under Armor  
\*\* Over Armor

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

<b>Polyethylene Insulation • Chrome PVC Jacket</b>																		
300V 60°C	<b>8760</b>	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.

<b>Polyethylene Insulation • Chrome FRNC/LSNH Jacket</b>																		
300V 80°C	<b>8760NH</b>	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

<b>Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket</b>																		
300V 80°C	<b>8760LS</b>	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

Industrial Data Solutions® - Industrial Fiber

Tactical Mobile Fiber



De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

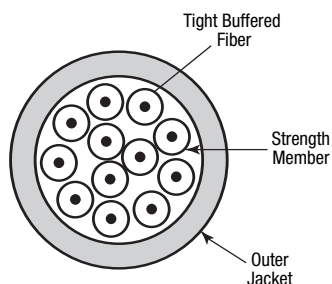
**GMMT • Intex Mobile • Tight Buffer • Designed for Despooling and Respooling • A/I-VQ(ZN)H**

**Dry Construction • PUR Jacket (Orange or Black)**

70°C	6888	2100			Ø 280 ± 15					Longitudinal watertightness Swellable Reinforced Yarn			no					
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GMMTx04	4		143.5	65.1							0.23	5.8		800	4	580	58	87
GMMTx06	6		175.9	79.8							0.25	6.3		950	4	725	63	95
GMMTx08	8		217.6	98.7							0.28	7.0		1100	4	890	70	105



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Industrial Ethernet Fiber Optic Cable Selection Guide

This chart is meant to help users to select the right cable. Refer to cable specifications for details. See www.belden-emea.com for fiber optic cable recommendations and technical data sheets.

Part No.	Jacket Material	No. of Fibers	Description	Outer Diameter	
				inch	mm

**Fiber (9/125) Micron, Single-mode, OS1**  
**Central Loose Tube, Steel Wire Armor, Improved Rodent Protection**

GOWA904	PE	4	Outdoor, T12	0.421	10.7
GOWA908	PE	8	Outdoor, T12	0.421	10.7
GOWA912	PE	12	Outdoor, T12	0.421	10.7
GUWA908	FRNC	8	Universal, T12	0.421	10.7
GUWA912	FRNC	12	Universal, T12	0.421	10.7
GUWB924	FRNC	24	Universal, T24	0.543	13.8
GOWB924	FRNC	24	Outdoor, T24	0.543	13.8

**Fiber (50/125) Micron, Multimode, OM2**  
**Central Loose Tube, Steel Wire Armor, Improved Rodent Protection**

GOWA204	PE	4	Outdoor, T12	0.421	10.7
GOWA206	PE	6	Outdoor, T12	0.421	10.7
GOWA212	PE	12	Outdoor, T12	0.421	10.7
GUWA204	FRNC	4	Universal, T12	0.421	10.7
GUWA208	FRNC	8	Universal, T12	0.421	10.7
GUWA212	FRNC	12	Universal, T12	0.421	10.7

Part No.	Jacket Material	No. of Fibers	Description	Outer Diameter	
				inch	mm

**Fiber (62.5/125) Micron, Multimode, OM1**  
**Central Loose Tube, Steel Wire Armor, Improved Rodent Protection**

GOWA106	PE	6	Outdoor, T12	0.421	10.7
GOWA112	PE	12	Outdoor, T12	0.421	10.7
GUWA104	FRNC	4	Universal, T12	0.421	10.7
GUWA108	FRNC	8	Universal, T12	0.421	10.7
GUWA112	FRNC	12	Universal, T12	0.421	10.7
GUWB124	FRNC	24	Universal, T24	0.543	13.8



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