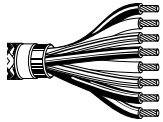


**Silicone Rubber – Steel Wire Braid (SWB)**

Multicore Cables

300/500V, 180°C, peak temp 250°C

De- scription	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm <sup>2</sup>		inch	mm	

**180°C • 18 - 4/0 AWG • Stranded Tinned Copper Wire****Silicone Halogen-Free Insulation (Color Code: see chart 11, Tech Info Section) • Glass Fiber Tape • Overall Red-Brown FRNC/LSNH Jacket • SWB**IEC 60754-1  
VDE 0282  
Part 1Overall  
Glass Fiber FoilIndustrial areas with increased temperature and  
mechanical requirements, e.g.  
- Mechanical engineering  
- Glass and ceramic fabrication  
- Steel and iron fabrication

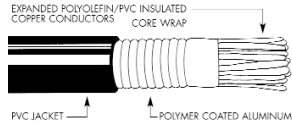
HMC0120	2	1640	500	97.0	44.0	(24x0.20) TC	18	0.75	0.283	7.20
HMC0121	3	1640	500	109.1	49.5	(24x0.20) TC	18	0.75	0.299	7.60
HMC0122	4	1640	500	133.4	60.5	(24x0.20) TC	18	0.75	0.319	8.10
HMC0123	5	1640	500	162.0	73.5	(24x0.20) TC	18	0.75	0.362	9.20
HMC0124	6	1640	500	186.3	84.5	(24x0.20) TC	18	0.75	0.390	9.90
HMC0125	7	1640	500	196.2	89.0	(24x0.20) TC	18	0.75	0.390	9.90
HMC0126	2	1640	500	108.0	49.0	(32x0.20) TC	17	1.00	0.299	7.60
HMC0127	3	1640	500	131.2	59.5	(32x0.20) TC	17	1.00	0.315	8.00
HMC0128	4	1640	500	153.2	69.5	(32x0.20) TC	17	1.00	0.346	8.80
HMC0129	5	1640	500	184.1	83.5	(32x0.20) TC	17	1.00	0.382	9.70
HMC0130	6	1640	500	203.9	92.5	(32x0.20) TC	17	1.00	0.409	10.40
HMC0131	7	1640	500	213.8	97.0	(32x0.20) TC	17	1.00	0.409	10.40
HMC0132	2	1640	500	138.9	63.0	(30x0.25) TC	16	1.50	0.327	8.30
HMC0133	3	1640	500	157.6	71.5	(30x0.25) TC	16	1.50	0.343	8.70
HMC0134	4	1640	500	187.4	85.0	(30x0.25) TC	16	1.50	0.378	9.60
HMC0135	5	1640	500	218.3	99.0	(30x0.25) TC	16	1.50	0.409	10.40
HMC0136	6	1640	500	270.1	122.5	(30x0.25) TC	16	1.50	0.449	11.40
HMC0137	7	1640	500	282.2	128.0	(30x0.25) TC	16	1.50	0.449	11.40
HMC0138	8	1640	500	347.2	157.5	(30x0.25) TC	16	1.50	0.500	12.70
HMC0139	10	1640	500	407.9	185.0	(30x0.25) TC	16	1.50	0.551	14.00
HMC0140	12	1640	500	449.7	204.0	(30x0.25) TC	16	1.50	0.571	14.50
HMC0141	14	1640	500	519.2	235.5	(30x0.25) TC	16	1.50	0.614	15.60
HMC0142	16	1640	500	596.3	270.5	(30x0.25) TC	16	1.50	0.669	17.00
HMC0143	18	1640	500	660.3	299.5	(30x0.25) TC	16	1.50	0.701	17.80
HMC0144	20	1640	500	694.4	315.0	(30x0.25) TC	16	1.50	0.720	18.30
HMC0145	24	1640	500	837.7	380.0	(30x0.25) TC	16	1.50	0.803	20.40
HMC0146	2	1640	500	181.9	82.5	(50x0.25) TC	14	2.50	0.382	9.70
HMC0147	3	1640	500	262.3	119.0	(50x0.25) TC	14	2.50	0.402	10.20
HMC0148	4	1640	500	295.4	134.0	(50x0.25) TC	14	2.50	0.453	11.50

TC = Tinned Copper • DCR = DC resistance

### Data Grade Armored Riser 25-Pair U/UTP Cables

TIA/EIA-568-A, Category 5,  
Non-Bonded-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		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			Input Imp. ( )	Min. RL dB	
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m			
<b>Cat 5 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Rip Cord</b>																				
<b>Flame Retardant Polymer Insulation • ALVYAN Sheath • PVC Jacket</b>																				
Grey, Reel	25500027	NEC:	8200	2500	205.0	93.0	0.51 mm	0.039	0.98	Non- Bonded-Pair Unshielded U/UTP	0.618	15.70	0.772	1.8	64.0	-	-	100 ± 15	-	
Grey, Reel	25500028	CMR					24 AWG							1	2.1	62.3	-	-	100 ± 15	23.0
		CEC:					Solid BC							4	4.3	53.3	-	-	100 ± 15	23.0
		CMR												8	5.9	48.8	-	-	100 ± 15	23.0
														10	6.6	47.3	-	-	100 ± 15	23.0
														16	8.2	44.3	-	-	100 ± 15	23.0
														20	9.2	42.8	-	-	100 ± 15	23.0
														25	10.5	41.3	-	-	100 ± 15	22.0
														31.25	11.8	40.9	-	-	100 ± 15	21.0
														62.5	17.1	35.4	-	-	100 ± 15	18.0
													100	22.0	32.3	-	-	100 ± 15	16.0	



25-Pair

Color Code: see chart below

Third party verified to TIA/EIA-568-A, Category 5  
Jacket sequentially marked at 0.6 m intervals. Featuring descending length marking.

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.	Tip	Ring
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Slate
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Slate
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Slate

Pair No.	Tip	Ring
16	Yellow	Blue
27	Yellow	Orange
38	Yellow	Green
49	Yellow	Brown
20	Yellow	Slate
21	Violet	Blue
22	Violet	Orange
23	Violet	Green
24	Violet	Brown
25	Violet	Slate

### 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

**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**

<b>Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket</b>																				
<p>Rip Cord</p> <p>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**

<b>Polyolefin Insulation • PVC Inner Jacket • Industrial Grade PVC Outer Jacket (Black and Grey)</b>																						
<p>Rip Cord</p> <p>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**

<b>Polyolefin Insulation • PVC Inner Jacket • Interlocked AL Armor • Industrial Grade PVC Outer Jacket (Black and Grey)</b>																				
<p>Rip Cord</p> <p>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							Upjacketed O.D.						
		HL												0.365	9.27					
		CMG FT4												x	x					
														0.165	4.19					

Cable passes -40°C Cold Bend per UL1581  
Installation Temperature: -25°C to +75°C  
Operating Temperature: -40°C to +75°C\*

RJ-45 Compatible  
Verified to TIA/EIA-568-B.2-1, Category 6  
U.S. Patents 5,606,151, 5,734,126 and 5,821,467  
Jacket sequentially marked at 1 m intervals.

BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance  
\* Subject to length de-rating.

**Color Code**

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




**Industrial Data Solutions® – Industrial Twinax**

**Blue Hose® Cables**




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


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

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


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.

<b>Polyethylene Insulation • Blue FRNC /LSNH Jacket</b>																					
300V 80°C  Z-Fold®	<b>9463NH</b>	IEC	1000	305	37.5	17.0	0.96 mm	0.077	1.96	Overall Beldfoil®	0.250	6.35	78	66%	19.7	64.6			see above		
		332-3C	1640	500	64.6	29.3	20 AWG													+ Overall	
		BS 7655	3280	1000	117.5	53.3	(7x28) TC														55% TC Braid + Drain Wire (20 AWG TC)

Color Code: Clear, Blue


<b>Polyethylene Insulation • Blue FRNC /LSNH Inner Jacket • Steel Wire Armor • Blue FRNC /LSNH Outer Jacket</b>																					
300V 80°C Steel Wire Armor  Z-Fold®	<b>9463LS</b>	IEC	1640	500	249.1	113.0	0.96 mm	0.077	1.96	Overall Beldfoil®	0.250	6.35	78	66%	19.7	64.6			see above		
		332-3C	3280	1000	537.9	244.0	20 AWG													+ Overall	
		BS 7655	4920	1500	925.9	420.0	(7x28) TC														55% TC Braid + Drain Wire (20 AWG TC)

Color Code: Clear, Blue

<b>Polyethylene Insulation • Blue Sunlight-Resistant LDPE Jacket</b>																				
300V 80°C Flooded Direct Burial  Z-Fold®	<b>9463DB</b>		1000	305	33.1	15.0	0.96 mm	0.076	1.92	Overall Beldfoil®	0.240	6.10	78	66%	19.7	64.6			see above	
			5000	1524	155.2	70.4	20 AWG													+ Overall
							(7x28) TC													

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**

<b>Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket</b>																					
300V 60°C UL AWM Style 2464  Z-Fold® High-Flex	<b>9463F</b>	NEC:	1000	305	42.1	19.1	0.97 mm	0.075	1.91	Overall Beldfoil®	0.243	6.17	78	66%	19.7	64.6			see above		
		CM CL2	5000	1524	205.2	93.1	20 AWG													+ Overall	
		CEC:					(42x36) TC														85% TC Braid
		CM																			

Color Code: Clear, Blue  
 Allen-Bradley P/N 1770-CD  
 P-7K-SC-182141-MSHA\*

TC = Tinned Copper • DCR = DC resistance  
 † Final put-up length may vary ±10% from length shown.  
 \* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

Industrial Data Solutions® - Industrial Twinax

Blue Hose® Cables



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

**20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Overall Beldfoil® + 76% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire**

Plenum • FEP Insulation • Blue FEP Jacket																						
<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**

Polyethylene Insulation • Blue PVC Inner Jacket • Aluminum Interlocked Armor • Blue Sunlight-Resistant PVC Outer Jacket																						
	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

Polyethylene Insulation • Blue PVC Inner Jacket • Steel Armor • Blue Sunlight-Resistant PVC Outer Jacket																						
	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

Polyethylene Insulation • Blue PVC Inner Jacket • Continuously Corrugated Aluminum Armor • Blue Sunlight-Resistant PVC Outer Jacket																						
	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	<b>9207</b>	NEC:	100	31	7.1	3.2	0.96 mm	0.083	2.11	Overall	0.330	8.38	100	66%	14.5	47.6	1	0.3	1.0
			CMG CL2	U-500	U-152	34.2	15.5	20 AWG			Duofoil®							10	1.2	3.9
			CEC:	500	152	34.6	15.7	(7x28) TC + BC			+ Overall							50	2.8	9.2
			CMG FT4	1000	305	68.1	30.9				86% TC Braid							100	4.1	13.5
				1640	500	111.8	50.7											200	6.4	21.0
				2000	610	136.2	61.8											400	10.2	33.5
				3280	1000	220.2	99.9													
			5000	1524	350.8	159.1														

Color Code: Clear, Clear

IBM P/N 7362211

CPE jacket optional

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

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

Color Code: Clear, Clear

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

**Foam Polyethylene Insulation • Black PVC Jacket**

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

Color Code: Clear, Blue

CPE jacket optional

**Foam Polyethylene Insulation • Black FRNC/LSNH Jacket**

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

Color Code: Clear, Blue

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

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

Color Code: Clear, Blue

\* Under Armor

\*\* Over Armor

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

Industrial Data Solutions® – Industrial 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.

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

Foam Polyethylene Insulation • PVC Jacket (Black or Intrinsically Safe Blue)

	3092A	NEC:	500	152	20.1	9.1	1.02 mm	0.180	4.57	Duobond® IV Quad Shield 11.8 Ω/km***	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										2	0.4	1.2
		CEC:	2000	610	78.0	35.4	Solid CCS										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
								100	2.0	6.5									
								200	2.8	9.3									
								300	3.5	11.4									
								400	4.1	13.3									

RG-6/U Type

Sweep tested 5 MHz to 50 MHz. CPE jacket optional.  
For Rockwell authorized flexible ControlNet™ order YR28890 (Tinned Copper Braid version).

Plenum • Foam FEP Insulation • Fluorocopolymer Jacket (Black or Intrinsically Safe Blue)

	150°C 3093A	NEC:	1000	305	40.1	18.2	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	† 2000	610	80.0	36.3	18 AWG										2	0.4	1.2
		CEC:	† 2500	762	95.0	43.1	Solid CCS										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									
								300	3.7	12.0									
								400	4.2	13.9									

RG-6/U Type

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

18 AWG • Stranded (105x40) 1.0 mm Bare Copper • Duobond® IV Quad Shield

Foam Polyethylene Insulation • Black PVC Jacket

	High-Flex 3092F	NEC:	1000	305	44.1	20.0	1.02 mm	0.183	4.65	Duobond® IV Quad Shield 11.8 Ω/km***	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										2	0.5	1.5
		CEC:					(105x40) BC										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									
								300	8.0	26.2									
								400	9.3	30.5									

RG-6/U Type

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 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

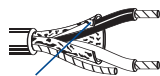
DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables



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

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													

\* Under Armor  
 \*\* Over Armor

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											
UL AWM Style 2493		CM	500	152	20.5	9.3	24 AWG																					White, Black	
		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											
		332-3C	1640	500	74.5	33.8	24 AWG																					White, Black	
		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											
		332-3C	3280	1000	672.4	305.0	24 AWG													**0.512	**13.00							White, Black	
		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											
UL AWM Style 2919		CM	250	76	11.0	5.0	22 AWG																					White, Black	
		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																							



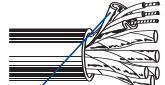
Z-Fold®

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										
		332-3C	1640	500	78.5	35.6	22 AWG																					White, Black
		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**

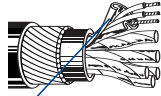
**Shielded Twisted Pair Cables**



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	*0.276	*7.00	50	66%	CDR/CDR	30.0	98.4	Red, Black
		332-3C	3280	1000	712.5	323.2	22 AWG			Beldfoil®	**0.425	**10.80			CDR/SCR	55.0	180.4	Green, White
		BS 7655					(7x30) TC			+ Drain Wire								Green, Black
										(22 AWG TC)								



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	<b>8723</b>	NEC:	100	31	2.2	1.0	0.76 mm	0.046	1.17	Individual	0.168	4.27	45	66%	CDR/CDR	35.0	115.0	Red, Black
60°C		CM	U-500	U-152	10.6	4.8	22 AWG			Beldfoil®					CDR/SCR	62.0	203.0	Green, White
		CEC:	500	152	9.9	4.5	(7x30) TC			+ Drain Wire								
		CM	U-1000	U-305	20.1	9.1				(24 AWG TC)								
			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	0.179	4.55	45	66%	CDR/CDR	35.0	114.8	Red, Black
		332-3C	1640	500	36.8	16.7	22 AWG			Beldfoil®					CDR/SCR	62.0	203.4	Green, White
		BS 7655	3280	1000	75.0	34.0	(7x30) TC			+ Drain Wire								
										(24 AWG 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	*0.179	*4.55	45	66%	CDR/CDR	35.0	114.8	Red, Black
		332-3C	3280	1000	350.1	158.8	22 AWG			Beldfoil®	**0.346	**8.80			CDR/SCR	62.0	203.4	Green, White
		BS 7655					(7x30) TC			+ Drain Wire								
										(24 AWG TC)								



2-Pair

\* Under Armor  
\*\* Over Armor

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



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.

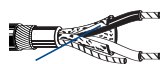
<b>Polyethylene Insulation • Chrome FRNC/LSNH Jacket</b>																		
300V 80°C	<b>8760NH</b>	IEC	1000	305	34.6	15.7	1.2 mm	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.236	6.00	60	66%	CDR/CDR	24.0	78.7	Black, Clear
		332-3C	1640	500	54.2	24.6	18 AWG									CDR/SCR	44.0	
		BS 7655	3280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