

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

EtherNet/IP Compliant

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 & Low Temp Oil Res I & 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

EtherNet/IP Compliant

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 • Stranded (7x32) 0.6 mm Tinned Copper

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

<p>4-Pair</p>	Stranded	7924A NEC: 1000 CMR CMX-Outdoor CEC: CMR FT4	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		
	Flexible		2000	610	58.0	26.3	24 AWG (7x32) TC			Unshielded				4	4.8	56.3	51.5	48.7	100 ± 12	23.6	
															8	6.8	51.8	45.0	42.7	100 ± 12	25.4
															10	7.7	50.3	42.6	40.8	100 ± 12	26.0
															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

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

<p>Rip Cord</p> <p>4-Pair</p>	PLTC	7922A NEC: 1000 PLTC CMR CMX-Outdoor CEC: CMR FT4	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	
			2000	610	92.6	42.0	22 AWG Solid BC			Unshielded				4	4.0	56.3	52.3	48.7	100 ± 12	23.0
														8	5.7	51.8	46.1	42.7	100 ± 12	24.5
														10	6.4	50.3	43.9	40.8	100 ± 12	25.0
														16	8.1	47.3	39.1	36.7	100 ± 12	25.0
														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

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

<p>4-Pair</p>	High & Low Temp Oil Res I & II Gas Res	7931A NEC: Limited Combustible FHC 25/50 CMP CEC: CMP FT6	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	
										Unshielded				10	6.0	57.3	51.3	44.8	100 ± 15	25.0
														20	8.5	52.8	44.3	38.7	100 ± 15	25.0
														31.25	10.7	49.9	39.2	34.9	100 ± 15	23.6
														62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
														100	19.8	42.3	22.5	24.8	100 ± 15	20.1
														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

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	9907	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	89907	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	9880	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	89880	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			see above	
			CL2P	†† 1640	500	225.1	102.1	12 AWG			Quad Shield										
			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® + 76% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire

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



Z-Fold®

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

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

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



* Over Armor
** Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

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



* Over Armor
** Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

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



* Over Armor
** Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® – Industrial Twinax

Twinaxial Cables



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

22 AWG • Stranded (19x34) 0.8 mm Tinned Copper • Duofoil® • 22 AWG Tinned Copper Drain Wire**Datalene® Insulation • Black PVC Jacket**

30V 60°C	9182	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	9182NH	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

	89182	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 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 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	
							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 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	
							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 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	
							100	1.2	3.8												
							200	1.6	5.3												
							300	2.0	6.5												
							400	2.3	7.5												

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	
							100	1.7	5.6												
							200	2.5	8.2												
							300	3.0	10.0												
							400	3.5	11.5												

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® – Interconnect Cables

Shielded Twisted Pair Cables



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

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

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



Z-Fold®

2-Pair

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

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



Z-Fold®

2-Pair

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

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



Z-Fold®

2-Pair

* Under Armor
** Over Armor

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

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



Z-Fold®

3-Pair

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

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

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



Z-Fold®

3-Pair

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® - Interconnect Cables

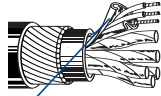
Shielded Twisted Pair Cables



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

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

Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket • Color Coded Foils (Red, Green, Blue)																		
300V 80°C	8777LS	IEC	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

Polypropylene Insulation • Chrome PVC Jacket																		
300V RMS	8723	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
60°C		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.

Polypropylene Insulation • Chrome FRNC/LSNH Jacket																		
300V 80°C	8723NH	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.

Polypropylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket																		
300V 80°C	8723LS	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

Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS	88723	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
Non-conduit		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

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



Shorting Fold

1-Pair

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

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



Shorting Fold

1-Pair

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



Shorting Fold

1-Pair

* Under Armor
** Over Armor

TC = Tinned Copper • DCR = DC resistance