

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									
			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**

<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.

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

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 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® - Interconnect Cables**

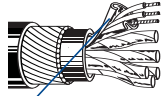
**Shielded Twisted Pair Cables**



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	<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
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.

<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	<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
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