

**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	<b>7924A</b> 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	<b>7922A</b> 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	<b>7931A</b> NEC: 1000 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 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	<b>89463</b>	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	<b>129463</b>	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	<b>139463</b>	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	<b>189463</b>	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**

DataTray® 600V Twinaxial Cables



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

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

**Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket**

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



Z-Fold®

VW-1

Color Code: Natural, Blue

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

**Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket**

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



Z-Fold®

Color Code: Natural, Blue

CPE jacket optional.

**Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket**

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



Z-Fold®

Color Code: Natural, Blue

CPE jacket optional.

TC = Tinned Copper • DCR = DC resistance

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

**Industrial Data Solutions® - Industrial 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>3077ELS</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**

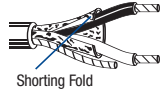
DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables



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



Shorting Fold

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

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

DataBus® PROFIBUS • DP EN50170-2-2

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

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

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



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

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

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

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



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

**Cellular Polyolefin Insulation • Violet FRNC/LSNH Jacket**

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



Color Code: Red, Green

**Cellular Polyolefin Insulation • Black PVC Jacket • Steel Wire Armor**

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



Color Code: Red, Green

\* Under Armor  
\*\* Over Armor

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

## Industrial Data Solutions® - Industrial Data

DeviceBus® for ODVA DeviceNet™ Cables



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

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

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



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

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

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



C(UL) AWM I/II A/B

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

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

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



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

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

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



C(UL) AWM I/II A

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

TC = Tinned Copper • DCR = DC resistance

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DeviceBus® for ODVA DeviceNet™ Cables



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

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

**PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket**

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

Blue, White	Data	2-Conductor 18 AWG 1.2 mm (65x36) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.153	3.89
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Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-A  
152 m and 610 m put-ups not available in Red.

**PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket**

Thick 75°C	<b>3083A</b>	NEC: CMG PLTC CEC: CMG FT4	1000 2000	305 610	136.9 278.0	62.1 126.1	Red, Black	0.475	12.07	Power	2-Conductor 15 AWG 1.7 mm (19x28) TC	Individual Beldfoil®	PVC			0.109	2.77
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Blue, White	Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.150	3.81
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Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-A

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

**PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket**

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

Blue, White	Data	2-Conductor 24 AWG 0.61 mm (19x36) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.077	1.96
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Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-C  
305 m put-up also available in Red.

**PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket**

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

Blue, White	Data	2-Conductor 24 AWG 0.58 mm (105x44) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.081	2.06
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Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-C

TC = Tinned Copper • DCR = DC resistance

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

## Industrial Data Solutions® - Industrial Data

DeviceBus® for ODVA DeviceNet™ Cables



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

**300V Class 2 Thin • 22 AWG and 24 AWG • Stranded Tinned Copper • Beldfoil® • 22 AWG TC Drain Wire • Overall 65% TC Braid****PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket**

Thin 75°C	3085A	NEC:	500	152	25.1	11.4	Red, Black	0.280	7.11	Power	2-Conductor 22 AWG 0.78 mm (19x34) TC	Individual Beldfoil®	PVC			0.072	1.83
		CL2 CMG	1000	305	47.2	21.4											
		CEC: CMG FT4	2000	610	96.1	43.6											
										Data	2-Conductor 24 AWG 0.61 mm (19x36) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.077	1.96



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

**300V Class 2 ODVA Cable III • 20 AWG and 18 AWG • Stranded TC • Beldfoil® • 20 AWG TC Drain Wire • Overall 65% TC Braid****PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket**

Mid 75°C	7895A	NEC:	500	152	41.0	18.6	Red, Black	0.378	9.60	Power	2-Conductor 20 AWG 0.94 mm (19x32) TC	Individual Beldfoil®	PVC			0.080	2.03
		UL AWM 20201 (600V) CMG	1000	305	84.0	38.1											
		PLTC CEC: CMG FT4															
										Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.129	3.28



Meter marks on jacket to aid users in installation.

**Flat • 16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Unshielded****PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket**

Class 2 300V 75°C	3082K	NEC:	246	75	30.9	14.0	Red, Black	0.430	10.92	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC			0.110	2.80
		CMG CL2	656	200	78.7	35.7											
		PLTC	1378	420	165.6	75.1											
		CEC: CMG FT4															
										Data	2-Conductor 16 AWG 1.47 mm (19x29) TC VOP: 75% 120 Ohm	Unshielded	FPE			0.110	2.80



Allen-Bradley P/N 1485 CPI-G

**PVC Insulation (Power) • Black Sunlight-Resistant PVC Jacket**

Class 1 Power 600V 75°C	3082KP	NEC:	246	75	32.0	14.5	Red, Black	0.430	10.92	Power	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC			0.110	2.80
		CMG ITC	656	200	81.3	36.9											
		PLTC TC	1378	420	171.1	77.6											
		CEC: CMG FT4															
										Data	2-Conductor 16 AWG 1.47 mm (19x29) TC VOP: 75% 120 Ohm	Unshielded	PVC			0.110	2.80



Allen-Bradley P/N 1485 CPI-G

TC = Tinned Copper • DCR = DC resistance

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## Industrial Data Solutions® - Industrial Data

## ASI Bus Flatcable

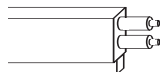


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation	
			ft.	m	lbs.	kg		inch	mm		inch	mm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

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

**PVC Insulation • Yellow TPE-O Jacket**

300V 80°C	3999E		328	100	63.9	29.0	1.5 mm 16 AWG (84x0.15) TC	0.096	2.45	Unshielded	0.157	4.00							
											x	x							
											0.394	10.00							



2-Conductor

Color Code: Blue, Brown

## Industrial Data Solutions® - Industrial Data

## EIA Industrial RS-485 PLTC/CM

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

**22 AWG** • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 90% Tinned Copper Braid • 22 AWG Tinned Copper Drain Wire

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

300V Oil Res II		NEC: CM PLTC CEC: CM FT1					0.76 mm 22 AWG (7x30) TC	0.087	2.21	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (22 AWG TC)			120	78%			
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<b>3105A</b>	1-Pair		500	152	23.0	10.4					0.284	7.21			CDR/CDR	20.9	68.6	see chart
	DMX512 Type		1000	305	50.0	22.7									CDR/SCR	11.0	36.1	below
			† 5000	1524	255.2	115.8												

For CPE jacketed version order Part No. YR44345.

<b>3106A</b>	1.5-Pair*		500	152	27.1	12.3					0.300	7.62			CDR/CDR	20.9	68.6	White/Orange,
			1000	305	51.1	23.2									CDR/SCR	11.0	36.1	Orange/White
			† 5000	1524	260.4	118.1												Blue/White

For CPE jacketed version order Part No. YR46721.

<b>3107A</b>	2-Pair		1000	305	69.1	31.3					0.356	9.04			CDR/CDR	20.9	68.6	see chart
	DMX512 Type		4000	1,219	300.2	136.2									CDR/SCR	11.0	36.1	below
			† 5000	1524	385.3	174.8												

For CPE jacketed version order Part No. YR46792.

<b>3108A</b>	3-Pair		1000	305	93.0	42.2					0.420	10.67			CDR/CDR	20.9	68.6	see chart
			2000	610	184.0	83.5									CDR/SCR	11.0	36.1	below

For CPE jacketed version order Part No. YR45287.

<b>3109A</b>	4-Pair		1000	305	107.2	48.6					0.420	10.67			CDR/CDR	20.9	68.6	see chart
			2000	610	218.2	99.0									CDR/SCR	11.0	36.1	below

For CPE jacketed version order Part No. YR44768.

TC = Tinned Copper • DCR = DC resistance

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

## Color Code

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

Industrial Data Solutions® - Industrial Data

CC-Link Cables



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

**20 AWG • Stranded (7x28) 1.0 mm Bare Copper • Beldfoil® • 78% Tinned Copper Braid • 22 AWG Tinned Copper Drain Wire**

**Foam HDPE Insulation • Red PVC Jacket**

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



Color Code: Blue, White, Yellow

3 CDR

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

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

**PVC Insulation (Power) • Foam HDPE Insulation (Data) • Red UV Resistant PVC Jacket**

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

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