

Industrial Data Solutions® – Industrial Twinax

Blue Hose® Cables



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

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

Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket

300V 80°C	9463	NEC:	100	31	4.2	1.9	0.96 mm	0.076	1.92	Overall	0.238	6.05	78	66%	19.7	64.6	1	0.6	2.0
UL AWM Style 2464		CM CL2	U-500	U-152	18.5	8.4	20 AWG			Beldfoil®							10	2.1	6.9
		CEC:	500	152	18.5	8.4	(7x28) TC			+ Overall							50	5.0	16.4
		CM	U-1000	U-305	37.0	16.8				55% TC Braid							100	7.5	24.6
			1000	305	37.0	16.8				+ Drain Wire							200	11.0	36.1
			† 6000	1829	233.9	106.1				(20 AWG TC)							400	16.0	52.5
			† 10000	3048	370.8	168.2													



Z-Fold®

Color Code: Clear, Blue
305 m, 1829 m and 3048 m put-ups also available in Brown, Orange or Violet.

Allen-Bradley P/N 1770-CD
P-7K-SC-182141-MSHA*
CPE jacket optional.

Polyethylene Insulation • Blue FRNC/LSNH Jacket

300V 80°C	9463NH	IEC	1000	305	37.5	17.0	0.96 mm	0.077	1.96	Overall	0.250	6.35	78	66%	19.7	64.6			see above	
		332-3C	1640	500	64.6	29.3	20 AWG			Beldfoil®										
		BS 7655	3280	1000	117.5	53.3	(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

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

300V 80°C	9463LS	IEC	1640	500	249.1	113.0	0.96 mm	0.077	1.96	Overall	0.250	6.35	78	66%	19.7	64.6			see above	
Steel Wire Armor		332-3C	3280	1000	537.9	244.0	20 AWG			Beldfoil®	0.423	10.75								
		BS 7655	4920	1500	925.9	420.0	(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Polyethylene Insulation • Blue Sunlight-Resistant LDPE Jacket

300V 80°C	9463DB		1000	305	33.1	15.0	0.96 mm	0.076	1.92	Overall	0.240	6.10	78	66%	19.7	64.6			see above	
Flooded			5000	1524	155.2	70.4	20 AWG			Beldfoil®										
Direct Burial							(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

20 AWG • Stranded (42x36) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 85 % Tinned Copper Braid

Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket

300V 60°C	9463F	NEC:	1000	305	42.1	19.1	0.97 mm	0.075	1.91	Overall	0.243	6.17	78	66%	19.7	64.6			see above	
UL AWM Style 2464		CM CL2	5000	1524	205.2	93.1	20 AWG			Beldfoil®										
		CEC:					(42x36) TC			+ Overall										
		CM								85% TC Braid										



Z-Fold®

High-Flex

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD
P-7K-SC-182141-MSHA*

TC = Tinned Copper • DCR = DC resistance

† Final put-up length may vary ±10% from length shown.

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

Industrial Data Solutions® - Industrial 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	7897A	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	7896A	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	7900A	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	3082A	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

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


Industrial Data Solutions® – Industrial Data

DeviceBus® for ODVA DeviceNet™ Cables




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

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

PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																	
High-Flex Thick 75°C UL AWM 20201	3082F	NEC:	500	152	72.5	32.9	Red, Black	0.480	12.19	Power	2-Conductor 15 AWG 1.7 mm (65x33) TC	Individual Beldfoil®	PVC			0.109	2.77
		CMG	1000	305	140.0	63.5											
		PLTC-ER CEC: CMG FT4	2000	610	284.0	128.8											
										Data	2-Conductor 18 AWG 1.2 mm (65x36) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.153	3.89


C(UL) AWM I/II A

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

PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket																	
Thick 75°C	3083A	NEC:	1000	305	136.9	62.1	Red, Black	0.475	12.07	Power	2-Conductor 15 AWG 1.7 mm (19x28) TC	Individual Beldfoil®	PVC			0.109	2.77
		CMG	2000	610	278.0	126.1											
		PLTC CEC: CMG FT4															
										Data	2-Conductor 18 AWG 1.24 mm (19x30) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.150	3.81


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

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

PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																	
Thin 75°C	3084A	NEC:	500	152	22.0	10.0	Red, Black	0.280	7.11	Power	2-Conductor 22 AWG 0.78 mm (19x34) TC	Individual Beldfoil®	PVC			0.072	1.83
		CL2 CMG	1000	305	47.0	21.3											
		CEC: CMG FT4	2000	610	96.1	43.6											
										Data	2-Conductor 24 AWG 0.61 mm (19x36) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.077	1.96

C(UL) AWM I/II A

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

PVC Insulation (Power) • FPE Insulation (Data) • Grey Sunlight/Oil-Resistant PVC Jacket																	
High-Flex Thin 75°C	3084F	NEC:	500	152	22.0	10.0	Red, Black	0.275	6.99	Power	2-Conductor 22 AWG 0.76 mm (154x44) TC	Individual Beldfoil®	PVC			0.062	1.57
		CL2 CMG	1000	305	47.0	21.3											
		CEC: CMG FT4	2000	610	96.1	43.6											
										Data	2-Conductor 24 AWG 0.58 mm (105x44) TC VOP: 75% 120 Ohm	Individual Beldfoil®	FPE			0.081	2.06

C(UL) AWM I/II A

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

TC = Tinned Copper • DCR = DC resistance

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

Industrial Data Solutions® - Industrial Data

DeviceBus® for ODVA DeviceNet™ Cables



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

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)	1000	305	84.0	38.1											
		CMG 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 CEC: CMG FT4	1378	420	165.6	75.1											
										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 CEC: CMG FT4	1378	420	171.1	77.6											
										Data	2-Conductor 16 AWG 1.47 mm (19x29) TC VOP: 75% 120 Ohm	Unshielded	PVC			0.110	2.80



Allen-Bradley P/N 1485 CPI-G

TC = Tinned Copper • DCR = DC resistance

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

Belden Infinity® Flexible Automation Cables

300V Flex Data Cables (1 Million Flex Cycles#)



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	

Flex Data • 24 AWG • Stranded (41x40) 0.6 mm BC • Twisted Pair • Overall Beldfoil® Shield + Overall 85% TC Braid + Drain Wire**Foam Polyethylene Insulation with Skin • Bright Green Oil-Resistant PVC Jacket**

300V 80°C

NEC:
CM
CEC:
CM0.58 mm
24 AWG
(41x40) BC

0.071 1.80

Overall
Beldfoil®
+ Overall
85% TC Braid
+ Drain Wire
(24 AWG TC)

-



7200A	1-Pair	500 1000	152 305	17.0 38.1	7.7 17.3						0.240 6.10	120		CDR/CDR	15 49	White, Blue
	RS-232, RS-485															
7201A	2-Pair	500 1000	152 305	31.1 60.0	14.1 27.2						0.322 8.18	120		CDR/CDR	15 49	see chart 5 (Tech Info Section)
	RS-232, RS-485															
7202A	3-Pair	500 1000	152 305	33.5 68.1	15.2 30.9						0.347 8.81	120		CDR/CDR	15 49	see chart 5 (Tech Info Section)
	RS-232, RS-485															
7203A	4-Pair	500 1000	152 305	39.0 79.1	17.7 35.9						0.362 9.20	120		CDR/CDR	15 49	see chart 5 (Tech Info Section)
	RS-232, RS-485															
7205A	1-Pair	500 1000	152 305	17.4 38.1	7.9 17.3						0.232 5.89	100		CDR/CDR	14 46	White, Blue
	RS-232, RS-422															
7206A	1-Pair	1000	305	59.1	26.8						0.302 7.67	150		CDR/CDR	10 33	White, Blue
	RS-232, RS-485															

Temp. Rating: -20° to 60°C (-5°C to 60°C flexing)

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

Based on proper installation techniques in a C-track cable guide.

Belden Infinity® Flexible Automation Cables

300V Flex Data Cables (1 Million Flex Cycles#)



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

Sub-Mini Type • 30 AWG • Stranded (7x38) 0.3 mm Tinned Cadmium Bronze • 95% Tinned Copper French Braid®

Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C	7500A	CEC:	† 250	76	3.1	1.4	0.31 mm	0.056	1.42	French Braid®	0.110	2.79	75	78%	16.7	54.8	2.2	0.9	2.95
UL AWM Style 1354	FT1		† 500	152	5.1	2.3	30 AWG			+ 95% TC							5	1.4	4.59
			† 1000	305	9.0	4.1	(7x38) TCB			43.6 Ω/km***							10	2.0	6.56
							379.9 Ω/km*										30	3.4	11.16
							354.3 Ω/km**										50	4.4	14.44
																	100	6.4	21.00

CSA AWM I/II A/B

Mini Type • 25 AWG • Stranded (19x38) 0.5 mm Bare Copper • 95% Tinned Copper French Braid®

Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C	7501A	CEC:	† 500	152	7.5	3.4	0.48 mm	0.090	2.29	French Braid®	0.146	3.71	75	77%	17.7	58.1	2.2	0.6	1.97
UL AWM Style 1354	FT1		† 1000	305	14.1	6.4	25 AWG			+ 95% TC							5	0.9	2.95
							(19x38) BC			29.9 Ω/km***							10	1.3	4.27
							144.7 Ω/km*										30	2.2	7.22
							114.8 Ω/km**										50	2.9	9.52
																	100	4.2	13.78

CSA AWM I/II A/B

RG-59 Type • 22 AWG • Stranded (19x34) 0.8 mm Bare Copper • 95% Tinned Copper French Braid®

Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C	7502A	CEC:	† 250	76	10.6	4.8	0.79 mm	0.146	3.71	French Braid®	0.242	6.15	75	79%	18.0	59.1	2.2	0.4	1.31
UL AWM Style 1354	FT1		† 500	152	18.1	8.2	22 AWG			+ 95% TC							5	0.5	1.64
			† 1000	305	34.0	15.4	(19x34) BC			21.0 Ω/km***							10	0.8	2.63
							65.0 Ω/km*										30	1.4	4.59
							44.0 Ω/km**										50	1.8	5.91
																	100	2.7	8.86

CSA AWM I/II A/B

RG-6/U Type • 18 AWG • Stranded (7x15x40) 1.0 mm Bare Copper • 95% Tinned Copper French Braid®

Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C	7503A	CEC:	† 250	76	12.1	5.5	1.02 mm	0.185	4.70	French Braid®	0.275	6.99	75	80%	17.3	56.8	2.2	0.3	0.98
UL AWM Style 1354	FT1		† 500	152	20.9	9.5	18 AWG			+ 95% TC							5	0.4	1.31
			† 1000	305	40.1	18.2	(7x15x40) BC			36.1 Ω/km***							10	0.6	1.97
							62.7 Ω/km*										30	1.1	3.61
							26.6 Ω/km**										50	1.5	4.92
																	100	2.2	7.22

CSA AWM I/II A/B

RG-11 Type • 16 AWG • Stranded (7x37x40) 1.7 mm Bare Copper • 95% Tinned Copper French Braid®

Foam Polyethylene Insulation • Matte Blue Belflex® Jacket																			
30V 80°C	7504A	CEC:	† 1000	305	84.0	38.1	1.65 mm	0.285	7.24	French Braid®	0.405	10.29	75	81%	17.3	56.8	2.2	0.2	0.66
UL AWM Style 1354	FT1						16 AWG			+ 95% TC							5	0.3	0.98
							(7x37x40) BC			11.8 Ω/km***							10	0.4	1.31
							23.3 Ω/km*										30	0.8	2.63
							11.5 Ω/km**										50	1.0	3.28
																	100	1.5	4.92

CSA AWM I/II A/B

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
 * DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor
 † Final put-up length may vary ±10% from length shown.

Based on proper installation techniques in a C-track cable guide.