

**MIL-C-17G QPL Cable**

Twinax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials 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/ 100m

**Twinax • 24 AWG** Stranded (19x36) .024" Silver-coated High-Strength Copper Alloy Conductor • SCHSCA Braid Shield (93% Coverage)**TFE Teflon® Insulation • Blue PFA Jacket** (Color Code: White, Blue)

200°C	<b>81553</b>	—	500 <sup>†</sup>	152.4	9.0	4.1	24 AWG (19x36)	.084	2.13	SCHSCA 93% Shield Coverage	.129	3.28	77	70%	24.0	78.7	1	1.2	3.9
			1000 <sup>†</sup>	304.8	16.0	7.3	.024" SCHSCA 24.0Ω/M' 78.7Ω/km			7.3Ω/M' 24.0Ω/km							10	4.0	13.1
																	50	9.2	30.2
																	100	13.0	42.7
																	200	18.4	60.4
																	400	26.1	85.6
																	700	34.6	113.5
																	900	39.3	128.9
																	1000	41.4	135.8

M17/176-00002

**Twinax • 20 AWG** Stranded (7x28) .038" Tinned Copper Conductor • Tinned Copper Braid Shield (85% Coverage)**Polyethylene Insulation • Black Non-contaminating PVC Jacket** (One conductor has bare strand for ID)

85°C	<b>9859</b>	—	1000	304.8	33.0	15.0	20 AWG (7x28)	.158	4.01	TC Braid 85% Shield Coverage	.235	5.97	78	66%	19.7	64.6	1	.7	2.3
							.038" TC 9.5Ω/M' 31.2Ω/km			5.3Ω/M' 17.4Ω/km							10	2.3	7.5
																	50	5.2	17.1
																	100	7.5	24.6
																	200	11.0	36.1
																	400	16.0	52.5

M17/45-RG108

DCR = DC Resistance • PFA = Perfluoroalkoxy • SCHSCA = Silver-coated High-strength Copper Alloy • TC = Tinned Copper • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.<sup>†</sup>Spools may contain more than one piece. Minimum length of any one piece is 50 ft. Length may vary ±10% from length shown for spools or reels and ±5% UnReel® cartons. Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

Teflon is a DuPont trademark.

**BELDEN**For more information, contact Belden Technical Support: **1-800-BELDEN-1** • [www.belden.com](http://www.belden.com)**Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr**

## Computer and Instrumentation Cable

78 Ohm, 95 Ohm and 100 Ohm Twinax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials 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/ 100m

**78 Ohm • 20 AWG** Stranded (7x28) .038" Tinned Copper Conductors • Tinned Copper Braid Shield (93% Coverage)

**Polyethylene Insulation • Blue PVC Jacket** (Color Code: Clear, Blue)

UL AWM Style 2092 (300V 60°C)	<b>9272</b>	NEC: CM	100 U-500	30.5 U-152.4	4.5 20.0	2.0 9.1	20 AWG (7x28)	.156	3.96	TC Braid 93% Shield	.244	6.20	78	66%	19.7	64.6	1	.6	2.0
		CEC: CM	500 U-1000	152.4 U-304.8	18.5 39.0	8.4 17.7	.038" TC			Coverage 3.4Ω/M'							50	5.0	16.4
			1000	304.8	41.0	18.6	9.5Ω/M' 31.2Ω/km			11.2Ω/km							100	7.5	24.6
																	200	11.0	36.1
																	400	16.0	52.5

For Plenum version of 9272, see 89272.  
CPE jacket optional.



**Plenum • FEP Teflon® Insulation • Blue FEP Teflon Jacket** (Color Code: Clear, Blue)

200°C	<b>89272</b>	NEC: CMP	500 1000	152.4 304.8	17.0 38.0	7.7 17.3	20 AWG (7x28)	.148	3.76	TC Braid 93% Shield	.198	5.03	78	69.5%	18.4	60.4	1	.6	2.0
		CEC: CMP FT6	500 U-1000	152.4 U-304.8	18.0 38.0	7.7 17.2	.038" TC			Coverage 3.9Ω/M'							10	2.1	6.9
			1000	304.8	39.0	17.7	9.5Ω/M' 31.2Ω/km			12.8v/km							50	5.0	16.4
																	100	7.5	24.6
																	200	11.0	36.1
																	400	16.0	52.5

Suitable for Aerial applications when supported by a messenger.

**78 Ohm • 20 AWG** Stranded (7x28) .038" Tinned Copper Conductors • Beldfoil® (100% Coverage) + TC Braid Shield (55% Coverage)

**Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket** (Color Code: Clear, Blue)

UL AWM Style 2464 (300V 80°C)	<b>9463</b>	NEC: CM CL2	100 U-500	30.5 U-152.4	4.4 19.5	2.0 8.9	20 AWG (7x28)	.154	3.91	Beldfoil + 55% TC	.238	6.05	78	66%	19.7	64.6	1	.6	2.0
		CEC: CM	500 U-1000	152.4 U-304.8	18.0 38.0	8.2 17.2	.038" TC			Braid 4.1Ω/M'							10	2.1	6.9
			1000	304.8	39.0	17.7	9.5Ω/M'			13.4Ω/km							50	3.6	11.8
			6000	1828.7	234.0	106.1	31.0Ω/km										100	7.5	24.6
			10000	3048.0	380.0	172.4											200	11.0	36.1
																	400	16.0	52.5

CPE jacket optional.

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

\*10000 ft. and 6000 ft. put-ups also available in Brown, Orange and Purple. 10,000 ft. available in Brown or Orange only.

**RG-22B/U • 95 Ohm • 18 AWG** Stranded (7x26) .046" Bare Copper Conductors\*\* • Double Tinned Copper Braid Shield (95% Coverage)

**Polyethylene Insulation • PE Inner Jacket • Black Non-contaminating PVC Outer Jacket** (Color Code: Clear, Clear)

80°C VW-1	<b>9250</b>	—	500 1000	152.4 304.8	61.5 121.0	27.9 54.9	18 AWG (7x26)	.285	7.24	(2) TC Braids 95% Shield	.416	10.67	95	66%	16.0	52.5	1	.3	1.0
							.046" BC			Coverage .9Ω/M'							10	.9	3.0
							6.6Ω/M' 21.5Ω/km			3.0Ω/km							20	1.3	4.3
																	50	2.1	6.9
																	100	3.0	9.8
																	400	6.3	20.7

CPE jacket optional.

RG-22B/U Type

\*\*1 conductor has tinned center strand. Non-contaminating PVC jacket.

**100 Ohm • 20 AWG** Stranded (7x28) .037" One Tinned/One Bare Copper Conductors • Duofoil® + Double TC Braid Shield (95% Coverage)

**Polyethylene Insulation • Black High-density Polyethylene Jacket**

Direct Burial 80°C	<b>9815</b>	—	500 1000 2000	152.4 304.8 609.6	34.5 69.0 134.0	15.7 31.4 60.9	20 AWG (7x28)	.236	5.99	TC Braid 95% Shield	.330	8.38	100	66%	14.5	47.6	1	.4	1.3
							.037" (1) TC, (1) BC			Coverage 2.0Ω/M' 6.6Ω/km							10	1.1	3.6
							9.5Ω/M' 31.0Ω/km										50	2.5	8.2
																	100	4.1	13.5
																	200	6.4	21.0
																	400	10.2	33.5

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • PE = Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

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

†Final put-up may vary from length shown. ±10% for spools or reels, ±5% for UnReel® cartons.

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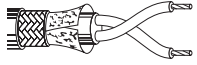
## Computer and Instrumentation Cable

100 Ohm, 124 Ohm and 150 Ohm Twinax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials 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/ 100m

**100 Ohm • 20 AWG** Stranded (7x28) .037" One TC/One BC Conductor • Duofoil® (100% Coverage) + TC Braid Shield (86% Coverage)

**Polyethylene Insulation • Polyethylene Inner Jacket • Black PVC Outer Jacket**

	75°C	<b>9207</b>	NEC:	100	30.5	7.1	3.2	20 AWG	.236	5.99	Duofoil	.330	8.38	100	66%	14.5	47.6	1	.3	1.0
			CM CL2	U-500	U-152.4	33.0	15.0	(7x28)			+86%							10	1.2	3.9
			CEC:	500	152.4	34.5	15.7	.037"			TC Braid							50	2.8	9.2
			CMG FT4	1000	304.8	68.0	30.9	(1) TC,			1.7Ω/M'							100	4.1	13.5
				1640	500.0	111.5	50.7	(1) BC			5.7Ω/km							200	6.4	21.0
				2000	609.6	136.0	61.8	9.5Ω/M'										400	10.2	33.5
				3280	1000.0	219.8	99.9	31.0Ω/km												
IBM P/N 7362211			5000	1524.0	350.0	159.1														

**100 Ohm • 20 AWG** Stranded (7x28) .037" One TC/One BC Conductor • Duofoil (100% Coverage) + TC Braid Shield (85% Coverage)

**Plenum • FEP Insulation • Black FEP Jacket**

	200°C	<b>89207</b>	NEC:	100	30.5	6.7	3.0	20 AWG	.201	5.11	Duofoil	.259	6.58	100	69.5%	14.0	46.0	1	.3	1.0
			CMP	500	152.4	26.0	11.8	(7x28)			+85%							10	1.2	3.9
			CEC:	1000	304.8	55.0	25.0	.037"			TC Braid							50	2.8	9.2
			CMP FT6					(1) TC, (1) BC			2.5Ω/M'							100	4.1	13.5
								9.5Ω/M'			8.2Ω/km							200	6.4	21.0
							31.2Ω/km										300	8.4	27.6	
																	400	10.2	33.5	

**124 Ohm • 25 AWG** Stranded (7x33) .021" Tinned Copper Conductors • Beldfoil® Shield (100% Coverage) • Stranded TC Drain Wire

**Polyethylene Insulation • Blue PVC Jacket** (Color Code: Clear, Blue)

	UL AWM	<b>9271</b>	NEC:	100	30.5	3.2	1.5	25 AWG	.170	4.32	Beldfoil	.240	6.10	124	66%	12.2	40.0	1	.6	2.0
	Style 2092		CM	500	152.4	12.5	5.7	(7x33)			12.0Ω/M'							10	1.7	5.6
	(300V 60°C)		CEC:	U-1000	U-304.8	27.0	12.3	.021"			39.4Ω/km							50	3.6	11.8
			CM	1000	304.8	28.0	12.7	TC										100	5.0	16.4
								31.8Ω/M'										200	6.9	22.6
							104.3Ω/km										400	9.6	31.5	

Shorting Fold

**124 Ohm • 16 AWG** Solid .051" Bare Copper Conductors • Duofoil (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)

**Foam Polyethylene Insulation • Black PVC Jacket** (Color Code: Clear, Blue)

	UL AWM	<b>9860</b>	NEC:	500	152.4	52.0	23.6	16 AWG	.322	8.18	Duofoil	.440	11.18	124	78%	10.9	35.8	1	.2	.6
	Style 2448		CMX	1000	304.8	103.0	46.8	(solid)			+ 90%							10	.7	2.3
	(30V 60°C)		CEC:	2000	609.6	202.0	91.8	.051"			TC Braid							50	1.8	5.9
	VW-1		CMX					BC			1.3Ω/M'							100	2.9	9.5
								4.2Ω/M'			4.3Ω/km							200	4.1	13.5
							13.8Ω/km										400	6.2	20.3	

**150 Ohm • 22 AWG** Stranded (19x34) .031" Tinned Copper Conductors • Duofoil Shield (100% Coverage) • Stranded TC Drain Wire

**Datalene® Insulation • Black PVC Jacket** (Color Code: Black, Yellow)

	UL AWM	<b>9182</b>	NEC:	U-500	U-152.4	21.5	9.8	22 AWG	.275	6.98	Duofoil	.345	8.76	150	78%	8.8	28.9	1	.4	1.3
	Style 2668		CMX	500	152.4	23.0	10.4	(19x34)			6.3Ω/M'							10	1.2	3.9
	(30V 60°C)		CL2X	1000	304.8	44.0	20.0	.031"			20.7Ω/km							50	2.7	8.7
	VW-1		CEC:					TC										100	4.3	14.1
			CMX					14.0Ω/M'										200	6.2	20.3
							45.9Ω/km										400	8.8	28.9	

Shorting Fold

**Plenum • Foam FEP Teflon Insulation • Black FEP Teflon Jacket** (Color Code: Black, Yellow)

		<b>89182</b>	NEC:	100	30.5	6.4	2.9	22 AWG	.278	7.06	Duofoil	.307	7.80	150	78%	8.8	28.9	1	.4	1.3
			CMP	500	152.4	28.0	12.7	(19x34)			6.3Ω/M'							10	1.2	3.9
			CL2P	1000	304.8	53.0	24.1	.031"			20.7Ω/km							50	2.7	8.7
			CEC:					TC										100	4.3	14.1
			CMP FT6					14.0Ω/M'										200	6.2	20.3
							45.9Ω/km										400	8.8	28.9	

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

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For more information, contact **Belden Technical Support: 1-800-BELDEN-1 • www.belden.com**

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## Industrial Data Solutions® — Industrial Twinax

### Belden® Blue Hose® Selection Guide for PLC and DCS Applications

Part No.	Description	Specifications
9463	<b>Blue Hose Standard Data Highway Cable</b> A Standard Data Highway Cable that is sometimes referred to as Blue Hose. Designed to be used in light industrial environments. Available in Blue, Brown or Orange up to 10,000 ft. special lengths.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil® + 55% tinned copper braid and drain wire, Blue sunlight-resistant PVC jacket. Nominal diameter: .238".
3072F	<b>600V Data Highway Cable — UL Type TC</b> A DataTray® cable designed for cable tray use in industrial applications. Cable can occupy same tray or conduit as 600V power cables.	1-pair, 18 AWG stranded (7x26) tinned copper, flame-retardant polyolefin insulation (color coded Blue, White), Beldfoil + 55% tinned copper braid and drain wire, Blue sunlight-resistant PVC jacket. Nominal diameter: .324". UL-1277 600V TC/PLTC/ITC/CMG.
9463F	<b>High-Flex Cable</b> A highly flexible version of the standard Blue Hose cable. The cable also has heavier braid coverage for better noise immunity.	1-pair, 20 AWG stranded (42x36) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 85% tinned copper braid, Blue sunlight-resistant PVC jacket. Nominal diameter: .243".
YR28826*	<b>Dual Blue Hose Cable</b> Dual Data Highway/Remote I/O cable has two Twinax pairs individually shielded with an overall braid. Designed for use in daisy chain applications or applications requiring two Blue Hose cables.	2-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), each pair Beldfoil shielded (1 pair Blue tape and 1 pair Green tape), 85% tinned copper braid and drain wire, Blue PVC jacket. Nominal diameter: .382".
YC39151*	<b>Dual Armored Data Highway Cable</b> Features two twinax pairs individually shielded with an overall braid, an inner PVC jacket, aluminum interlocked armor, with an outer PVC jacket. Designed for use in daisy chain applications or applications requiring two Blue Hose cables, with the extra mechanical protection and electrical shielding provided by the armor.	2-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), each pair Beldfoil shielded, 55% tinned copper braid and drain wire, Blue PVC inner jacket, aluminum interlocked armor, Blue sunlight-resistant PVC outer jacket. Nominal diameter: .820".
9463DB	<b>Gel-Filled Direct Burial Cable</b> A gel-filled Blue Hose cable featuring a low-density polyethylene (LDPE) jacket. Especially suited for high-moisture environments and burial applications.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, CoreGuard® flooding compound, Blue sunlight-resistant low density polyethylene jacket. Nominal diameter: .240".
89463	<b>Plenum Cable</b> A plenum, 200°C grade cable that is suitable for installations where high and low temperatures, as well as corrosive environments, are encountered.	1-pair, 20 AWG stranded (7x28) tinned copper, FEP insulation (color coded Blue, Clear), Beldfoil + 76% tinned copper braid and drain wire, Blue FEP jacket. Nominal diameter: .203".
YR28764*	<b>Thick-Wall, Heavy-Duty Cable — UL Type PLTC</b> A rugged, heavy-duty cable specially designed for abusive environments. A .069" thick jacket provides extra protection against cuts and abrasion.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue sunlight-resistant PVC jacket. Nominal diameter: .380".
YR41104*	<b>Low Smoke, Zero Halogen Cable</b> For applications concerned with smoke emissions, toxicity and electronic component corrosion.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue Haloarrest® jacket. Nominal diameter: .256".
129463	<b>Aluminum Interlocked Armor Blue Hose Cable</b> Features interlocked aluminum armor combined with a PVC jacket and is an ideal alternative to conduit installation. Provides both mechanical protection and electrical shielding. Up to 25 Data Highway cables can be bundled under one sheath.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue PVC inner jacket, aluminum interlocked armor, Blue PVC sunlight-resistant outer jacket. Nominal overall diameter: .563".
139463	<b>Steel Interlocked Armor Blue Hose Cable</b> Features interlocked galvanized steel armor combined with a PVC jacket. Provides mechanical protection and electrical shielding, as well as prevention against the low-frequency 60 Hz magnetic noise from power lines. Up to 25 cables can be bundled under one sheath.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue PVC inner jacket, steel interlocked armor, Blue sunlight-resistant outer PVC jacket. Nominal overall diameter: .563".
189463	<b>Continuously Corrugated Aluminum Armor Blue Hose Cable</b> Features continuously corrugated aluminum armor combined with a PVC jacket. Provides mechanical protection, electrical shielding and is impervious to moisture.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, Blue PVC inner jacket, continuously corrugated aluminum armor, Blue sunlight-resistant PVC outer jacket. Nominal overall diameter: .500".
YR29565*	<b>Colored Blue Hose</b> When your application calls for multiple Blue Hose cables you can rest assured that Belden has the solution. This special construction is available in Red, Yellow, Green, White or Pink.	1-pair, 20 AWG stranded (7x28) tinned copper, polyethylene insulation (color coded Blue, Clear), Beldfoil + 55% tinned copper braid and drain wire, sunlight-resistant PVC jacket. Nominal diameter: .238".

\*Custom made product. Minimum order quantity may apply.

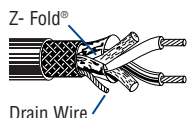
# Industrial Data Solutions® — Industrial Twinax Blue Hose® Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials 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/100m

**78 Ohm • 20 AWG** Stranded (7x28) .038" TC Conductors • Beldfoil® (100% Coverage) + TC Braid Shield (55% Coverage) • TC Drain Wire

**Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket** (Color Code: Clear, Blue)

<b>Blue Hose</b>	<b>9463</b>	NEC:	100	30.5	4.2	1.9	20 AWG	.154	3.91	Beldfoil	.238	6.05	78	66%	19.7	64.6	1	.6	2.0
UL AWM		CM CL2	U-500	U-152.4	18.5	8.4	(7x28)			+55%							10	2.1	6.9
Style 2464		CEC:	500	152.4	18.5	8.4	.038"			TC Braid							50	5.0	16.4
(300V 80°C)		CM	U-1000	U-304.8	37.0	16.8	Tinned			4.1Ω/M'							100	7.5	24.6
			1000 <sup>▲</sup>	304.8	37.0	16.8	Copper			13.4Ω/km							200	11.0	36.1
			6000 <sup>▲†</sup>	1828.8	222.0	100.9	9.5Ω/M'										400	16.0	52.5
			10000 <sup>▲†</sup>	3048.0	370.0	168.0	31.0Ω/km												



CPE jacket optional.

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

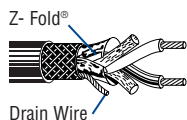
<sup>▲</sup>1000 ft. and 6000 ft. put-ups also available in Brown, Orange or Purple.

<sup>†</sup>10000 ft. put-up available in Brown or Orange only.

<sup>!</sup>Final put-up length may vary ±10% from length shown.)

**Polyethylene Insulation • Blue Sunlight-resistant LDPE Jacket** (Color Code: Clear, Blue)

<b>Flooded Direct Burial Blue Hose</b>	<b>9463DB</b>	—	1000	304.8	33.0	15.0	20 AWG	.154	3.91	Beldfoil	.240	6.10	78	66%	19.7	64.6	1	.6	2.0
300V 80°C			5000	1524.0	155.0	70.4	(7x28)			+55%							10	2.1	6.9
							.038"			TC Braid							50	5.0	16.4
							Tinned			4.1Ω/M'							100	7.5	24.6
							Copper			13.4Ω/km							200	11.0	36.1
							9.5Ω/M'										400	16.0	52.5
							31.0Ω/km												



Allen-Bradley P/N 1770-CD

**78 Ohm • 20 AWG** Stranded (42x36) .038" TC Conductors • Overall Beldfoil (100% Coverage) + TC Braid Shield (85% Coverage)

**Polyethylene Insulation • Blue Sunlight-resistant PVC Jacket** (Color Code: Clear, Blue)

<b>High-Flex Blue Hose</b>	<b>9463F</b>	NEC:	1000	304.8	42.0	19.1	20 AWG	.154	3.91	Beldfoil	.243	6.17	78	66%	19.7	64.6	1	.6	2.0
300V 60°C		CM CL2	5000	1524.0	205.0	93.1	(42x36)			+85%							10	2.1	6.9
		CEC:					.038"			TC Braid							50	5.0	16.4
		CM					Tinned			5.0Ω/M'							100	7.5	24.6
							Copper			6.4Ω/km							200	11.0	36.1
							9.5Ω/M'										400	16.0	52.5
							31.0Ω/km												

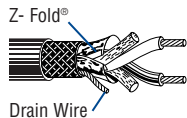


Allen-Bradley P/N 1770-CD • P-7K-SC-182141-MSHA\*

**78 Ohm • 20 AWG** Stranded (7x28) .038" TC Conductors • Overall Beldfoil (100% Coverage) + TC Braid Shield (76% Coverage) • Drain Wire

**Plenum • FEP Insulation • Blue FEP Jacket** (Color Code: Clear, Blue)

<b>High Temperature Blue Hose</b>	<b>89463</b>	NEC:	1000	304.8	34.0	15.4	20 AWG	.151	3.83	Beldfoil	.203	5.16	78	69%	19.7	64.6	1	.6	2.0
300V 200°C		CMP CL2P	2500	762.0	90.0	40.9	(7x28)			+76%							10	2.1	6.9
		CEC:					.038"			TC Braid							50	5.0	16.4
		CMP FT6					Tinned			4.1Ω/M'							100	7.5	24.6
							Copper			13.4Ω/km							200	11.0	36.1
							9.5Ω/M'										400	16.0	52.5
							31.0Ω/km												



Allen-Bradley P/N 1770-CD

DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • LDPE = Low-density Polyethylene • TC = Tinned Copper

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

**Industrial Data Solutions® — Industrial Twinax****Blue Hose® and Other Twinaxial Cables**

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials 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/ 100m

**78 Ohm • 20 AWG** Stranded (7x28) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (55% Coverage) • TC Drain Wire**Aluminum Interlocked Armor • PE Insulation • Blue Sunlight-resistant PVC Outer Jacket\*** (Color Code: Clear, Blue)

<b>Aluminum Armored Blue Hose</b> 300V 60°C	<b>129463</b>	NEC:	1000†	304.8	122.0	55.5	20 AWG (7x28)	.154	3.91	Beldfoil +55%	Inner Jacket: .238	78	66%	19.7	64.6	1	.6	2.0
		CM CL2	6000†	1828.8	924.0	420.0	.038"	Tinned	4.1Ω/M'	TC Braid	Overall: .563	14.30				10	2.1	6.9
		CEC:					.038"	Copper	9.5Ω/M'							50	5.0	16.4
		CM, CMG FT4, HLBCD (Haz Loc)														100	7.5	24.6
																200	11.0	36.1
														400	16.0	52.5		



Drain Wire

\*Blue PVC inner jacket.  
Allen-Bradley P/N 1770-CD**Steel Interlocked Armor • PE Insulation • Blue Sunlight-resistant PVC Outer Jacket\*** (Color Code: Clear, Blue)

<b>Steel Armored Blue Hose</b> 300V 60°C	<b>139463</b>	NEC:	1000†	304.8	220.0	100.0	20 AWG (7x28)	.154	3.91	Beldfoil +55%	Inner Jacket: .238	78	66%	19.7	64.6	1	.6	2.0
		CM CL2	6000†	1828.8	1488.0	676.4	.038"	Tinned	4.1Ω/M'	TC Braid	Overall: .563	14.30				10	2.1	6.9
		CEC:					.038"	Copper	9.5Ω/M'							50	5.0	16.4
		CM, CMG FT4, HLBCD (haz loc)														100	7.5	24.6
																200	11.0	36.1
														400	16.0	52.5		



Drain Wire

\*Blue PVC inner jacket.  
Allen-Bradley P/N 1770-CD**Continuously Corrugated AL Armor • PE Insulation • Blue Sunlight-resistant PVC Outer Jacket\*** (Color Code: Clear, Blue)

<b>Continuously Armored Blue Hose</b> 300V 60°C	<b>189463</b>	NEC:	2000†	609.6	258.0	117.1	20 AWG (7x28)	.154	3.91	Beldfoil +55%	Inner Jacket: .238	78	66%	19.7	64.6	1	.6	2.0
		PLTC					.038"	Tinned	4.1Ω/M'	TC Braid	Overall: .500	12.70				10	2.1	6.9
		CEC:					.038"	Copper	9.5Ω/M'							50	5.0	16.4
		CM	U-1000	U-304.8	41.0	18.6										100	7.5	24.6
			1000	304.8	40.0	18.2										200	11.0	36.1
														400	16.0	52.5		



Drain Wire

\*Blue PVC inner jacket.  
Allen-Bradley P/N 1770-CD**78 Ohm • 20 AWG** Stranded (7x28) .038" Tinned Copper Conductors • Tinned Copper Braid Shield (93% Coverage)**Polyethylene Insulation • Blue PVC Jacket** (Color Code: Clear, Blue)

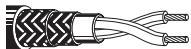
<b>UL AWM Style 2092 (300V 60°C)</b>	<b>9272</b>	NEC:	100	30.5	4.5	2.0	20 AWG (7x28)	.156	3.96	93% TC Braid Shield	.244	6.20	78	66%	19.7	64.6	1	.6	2.0
		CM	U-500	U-152.4	20.5	9.3	.038"	Tinned	3.4Ω/M'							10	2.1	6.9	
		CEC:	500	152.4	20.0	9.1	.038"	Copper	9.5Ω/M'							50	5.0	16.4	
		CM	U-1000	U-304.8	41.0	18.6										100	7.5	24.6	
			1000	304.8	40.0	18.2										200	11.0	36.1	
														400	16.0	52.5			



Drain Wire

For Plenum version of 9272, see 89272.  
CPE jacket optional.**95 Ohm • RG-22B/U Type • 18 AWG** Stranded (7x26) Bare Copper Conductors†† • TC Double Braid Shield (95% Coverage)**Polyethylene Insulation • PE Inner Jacket • Black Non-contaminating PVC Outer Jacket**

<b>80°C VW-1</b>	<b>9250</b>	—	500	152.4	61.5	27.9	18 AWG (7x26)	.285	7.24	2 TC Braid Shield	.416	10.57	95	66%	16.0	52.5	1	.3	1.0
			1000	304.8	121.0	54.9	.046"	BC	6.6Ω/M'							10	.9	3.0	
																20	1.3	4.3	
																50	2.1	6.9	
																100	3.0	9.8	
														400	6.3	20.7			



CPE jacket optional.

††One conductor has tinned center strand.

AL = Aluminum • BC = Bare Copper • DCR = DC Resistance • PE = Polyethylene • TC = Tinned Copper

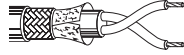
\*Final put-up length may vary ±10% from length shown.

**Industrial Data Solutions® — Industrial Twinax**

## Twinaxial Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. of Prop. (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/ 100m

**100 Ohm • 20 AWG** Stranded (7x28) .037" One TC, One BC Conductor • Duofoil® (100% Coverage) + TC Braid Shield (86% Coverage)**Polyethylene Insulation • Polyethylene Inner Jacket • Black PVC Outer Jacket**

75°C	<b>9207</b>	NEC:	100	30.5	7.1	3.2	20 AWG	.236	5.99	Duofoil	.330	8.38	100	66%	14.5	47.6	1	.3	1.0
		CMG CL2	U-500	U-152.4	34.0	15.5	(7x28)			+ 86%							10	1.2	3.9
		CEC:	500	152.4	34.5	15.7	.037"			TC Braid							50	2.8	9.2
		CMG FT4	1000	304.8	68.0	30.9	1 TC			2.5Ω/M'							100	4.1	13.5
			1640	500.0	111.5	50.7	1 BC			8.2Ω/km							200	6.4	21.0
			2000	609.6	136.0	61.8	9.5Ω/M'										400	10.2	33.5
			3280	1000.0	219.8	99.9	31.0Ω/km												
			5000	1524.0	350.0	159.1													

IBM P/N 7362211

For Plenum version of 9207,  
see 89207.  
CPE jacket optional.**124 Ohm • 25 AWG** Stranded (7x33) .021" Tinned Copper Conductors • Beldfoil® (100% Coverage) • Stranded Tinned Copper Drain Wire**Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue)**

UL AWM	<b>9271</b>	NEC:	100	30.5	3.2	1.5	25 AWG	.170	4.32	100%	.240	6.10	124	66%	12.2	40.0	1	.6	2.0
Style 2092		CM	500	152.4	14.0	6.4	(7x33)			Beldfoil							10	1.7	5.6
(300V 60°C)		CEC:	U-1000	U-304.8	27.0	12.3	.021"			Shield							50	3.6	11.8
		CM	1000	304.8	28.0	12.7	Tinned			12.0Ω/M'							100	5.0	16.4
							Copper			39.4Ω/km							200	6.9	22.6
							31.8Ω/M'										400	9.6	31.5
							104.3Ω/km												

Shorting Fold

CPE jacket optional.

**124 Ohm • 16 AWG** Solid .051" Bare Copper Conductors • Duofoil (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)**Foam Polyethylene Insulation • Black PVC Jacket (Color Code: Clear, Blue)**

UL AWM	<b>9860</b>	NEC:	500	152.4	52.0	23.6	16 AWG	.322	8.18	Duofoil	.440	11.18	124	78%	10.9	35.8	1	.2	.6
Style 2448		CMX	1000	304.8	103.0	46.8	(solid)			+90%							10	.7	2.3
(30V 60°C)		CEC:	2000	609.6	202.0	91.8	.051"			TC Braid							50	1.8	5.9
		CMX					Bare			1.3Ω/M'							100	2.9	9.5
							Copper			4.3Ω/km							200	4.1	13.5
							4.2Ω/M'										400	6.2	20.3
							13.8Ω/km												



CPE jacket optional.

**150 Ohm • 22 AWG** Stranded (19x34) .031" Tinned Copper Conductors • Duofoil (100% Coverage) • Stranded Tinned Copper Drain Wire**Datalene® Insulation • Black PVC Jacket (Color Code: Black, Yellow)**

UL AWM	<b>9182</b>	NEC:	U-500	U-152.4	22.5	10.2	22 AWG	.275	6.98	100%	.345	8.76	150	78%	8.8	28.9	1	.4	1.3
Style 2668		CL2X CMX	500	152.4	23.0	10.4	(19x34)			Duofoil							10	1.2	3.9
(30V 60°C)		CEC:	1000	304.8	44.0	20.0	.031"			Shield							50	2.7	8.9
VW-1		CMX					Tinned			6.3Ω/M'							100	4.3	14.1
							Copper			20.7Ω/km							200	6.2	20.3
							14.0Ω/M'										400	8.8	28.9
							45.9Ω/km												

For Plenum version of 9182,  
see 89182.  
Dual version: YR41609  
CPE jacket optional.**Plenum • Foam FEP Teflon® Insulation • Black FEP Teflon Jacket (Color Code: Black, Yellow)**

	<b>89182</b>	NEC:	100	30.5	6.4	2.9	22 AWG	.278	7.06	100%	.307	7.80	150	78%	8.8	28.9	1	.4	1.3
		CMP	500 <sup>†</sup>	152.4	28.0	12.7	(19x34)			Duofoil							10	1.2	3.9
		CL2P	1000 <sup>†</sup>	304.8	53.0	24.1	.031"			Shield							50	2.7	8.9
		CEC:					Tinned			6.3Ω/M'							100	4.3	14.1
		CMP FT6					Copper			20.7Ω/km							200	6.2	20.3
							14.0Ω/M'										400	8.8	28.9
							45.9Ω/km												

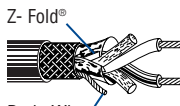
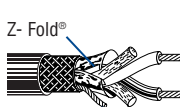
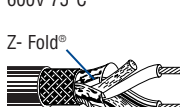


BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • TC = Tinned Copper

<sup>†</sup>Spools are one piece, but length may vary ±10% from length shown.

Teflon is a DuPont trademark.

**Industrial Data Solutions® — Industrial Twinax****DataTray® 600V Twinaxial Cables**

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials 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/ 100m	
<b>18 AWG Stranded (7x26) Tinned Copper Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (55% Coverage) • TC Drain Wire</b>																				
<b>Flame-retardant Polyolefin Insulation • Blue Sunlight-resistant PVC Jacket (Color Code: Natural, Blue)</b>																				
<b>UL Type TC</b> 600V 75°C   Z-Fold®  Drain Wire	<b>3072F</b>	NEC:	250	76.2	17.5	8.0	18 AWG (7x26)	.192	4.88	Beldfoil +55%	.324	8.23	78	65%	19.5	64	1	.5	1.7	
		CMG, ITC	500	152.4	35.0	15.9												10	2.0	6.5
		TC, PLTC	1000	304.8	69.0	31.3	.046"				TC Braid (100%) Shield							50	3.8	12.4
		CEC:	2500	762.0	170.0	77.2	Tinned Copper											100	5.4	17.6
		CMG FT4	5000†	1524.0	345.0	156.6	6.9Ω/M'				3.2Ω/M'							200	7.6	24.8
			10000†	3048.0	710.0	322.3	22.7Ω/km			10.4Ω/km							400	10.7	35.1	
P-MSHA-C-7K-1827*																				
<b>UL Type TC</b> 600V 75°C   Z-Fold®  Drain Wire	<b>3073F</b>	NEC:	250	76.2	21.0	9.5	18 AWG (7x26)	.246	6.25	Beldfoil +55%	.388	9.86	100	65%	15.3	50.2	1	.4	1.3	
		CMG, ITC	1000	304.8	85.0	38.6												10	1.3	4.4
		TC, PLTC	5000†	1524.0	420.0	190.7	.046"				TC Braid (100%) Shield							50	3.0	9.7
		CEC:					Tinned Copper											100	4.2	13.8
		CMG FT4					6.9Ω/M'				2.9Ω/M'							200	6.0	19.5
						22.7Ω/km			9.6Ω/km								400	7.5	24.7	
CPE jacket optional.																				
<b>UL Type TC</b> 600V 75°C   Z-Fold®  Drain Wire	<b>3074F</b>	NEC:	500	152.4	62.5	28.4	18 AWG (7x26)	.328	8.33	Beldfoil +55%	.460	11.68	124	65%	12.3	40.3	1	.3	1.1	
		CMG, ITC	1000	304.8	121.0	54.9												10	1.1	3.5
		TC, PLTC	2500	762.0	300.0	136.2	.046"				TC Braid (100%) Shield							50	2.4	7.8
		CEC:					Tinned Copper											100	3.4	11.1
		CMG FT4					6.9Ω/M'				2.8Ω/M'							200	4.8	15.7
						22.7Ω/km			9.1Ω/km								400	6.8	22.2	
CPE jacket optional.																				

DCR = DC Resistance • TC = Tinned Copper if conductor, or Tray Cable if NEC rating.

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

†Final put-up length may vary -0 to +10% from length shown.