

# 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	30.5	4.5	2.0	20 AWG (7x28)	.156	3.96	TC Braid 93% Shield Coverage	.244	6.20	78	66%	19.7	64.6	1	.6	2.0
		CEC: CM	500	152.4	18.5	8.4	.038"			TC							10	2.1	6.9
			1000	304.8	39.0	17.7	9.5Ω/M'			3.4Ω/M'							50	5.0	16.4
			1000	304.8	41.0	18.6	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	152.4	17.0	7.7	20 AWG (7x28)	.148	3.76	TC Braid 93% Shield Coverage	.198	5.03	78	69.5%	18.4	60.4	1	.6	2.0
		CEC: CMP FT6	1000	304.8	38.0	17.3	.038"			TC							10	2.1	6.9
							9.5Ω/M'			3.9Ω/M'							50	5.0	16.4
							31.2Ω/km			12.8v/km							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	30.5	4.4	2.0	20 AWG (7x28)	.154	3.91	Beldfoil + 55% TC Braid	.238	6.05	78	66%	19.7	64.6	1	.6	2.0
		CEC: CM	500	152.4	18.0	8.2	.038"			TC							10	2.1	6.9
			1000	304.8	39.0	17.7	9.5Ω/M'			4.1Ω/M'							50	3.6	11.8
			1000*	304.8	39.0	17.7	31.0Ω/km			13.4Ω/km							100	7.5	24.6
			6000*†	1828.7	234.0	106.1											200	11.0	36.1
			10000*†	3048.0	380.0	172.4											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	152.4	61.5	27.9	18 AWG (7x26)	.285	7.24	(2) TC Braids 95% Shield Coverage	.416	10.67	95	66%	16.0	52.5	1	.3	1.0
			1000	304.8	121.0	54.9	.046"			BC							10	.9	3.0
							6.6Ω/M'			3.0Ω/km							20	1.3	4.3
							21.5Ω/km										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	152.4	34.5	15.7	20 AWG (7x28)	.236	5.99	TC Braid 95% Shield Coverage	.330	8.38	100	66%	14.5	47.6	1	.4	1.3
			1000	304.8	69.0	31.4	.037"			(1) TC, (1) BC							10	1.1	3.6
			2000	609.6	134.0	60.9	9.5Ω/M'			2.0Ω/M'							50	2.5	8.2
							31.0Ω/km			6.6Ω/km							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.

Teflon is a DuPont trademark.

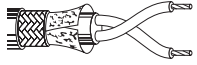
## Computer and Instrumentation Cable

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**

	<b>9207</b> NEC: CM CL2 CEC: CMG FT4	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	
		U-500	U-152.4	33.0	15.0	(7x28)		+86%									10	1.2	3.9
		500	152.4	34.5	15.7	.037"		TC Braid									50	2.8	9.2
		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													
5000	1524.0	350.0	159.1																

IBM P/N 7362211

**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**

	<b>89207</b> NEC: CMP CEC: CMP FT6	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	
		500	152.4	26.0	11.8	(7x28)		+85%									10	1.2	3.9
		1000	304.8	55.0	25.0	.037"		TC Braid									50	2.8	9.2
						(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)**

	<b>9271</b> UL AWM Style 2092 (300V 60°C) Shorting Fold	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	
		500	152.4	12.5	5.7	(7x33)		12.0Ω/M'									10	1.7	5.6
		U-1000	U-304.8	27.0	12.3	.021"		39.4Ω/km									50	3.6	11.8
		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		

**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)**

	<b>9860</b> UL AWM Style 2448 (30V 60°C) VW-1	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	
		1000	304.8	103.0	46.8	(solid)		+ 90%									10	1.7	2.3
		2000	609.6	202.0	91.8	.051"		TC Braid									50	5.8	5.9
						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)**

	<b>9182</b> UL AWM Style 2668 (30V 60°C) VW-1	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	
		500	152.4	23.0	10.4	(19x34)		6.3Ω/M'									10	1.2	3.9
		CL2X	1000	304.8	44.0	20.0	.031"		20.7Ω/km								50	2.7	8.7
						TC											100	4.3	14.1
						14.0Ω/M'											200	6.2	20.3
						45.9Ω/km											400	8.8	28.9

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

	<b>89182</b> NEC: CMP CL2P CEC: CMP FT6	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	
		500	152.4	28.0	12.7	(19x34)		6.3Ω/M'									10	1.2	3.9
		1000	304.8	53.0	24.1	.031"		20.7Ω/km									50	2.7	8.7
						TC											100	4.3	14.1
						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

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

Teflon is a DuPont trademark.

**BELDEN**

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

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