



## Description:

20 AWG stranded (7x28) .038" tinned copper conductors, polyethylene insulation, tinned copper braid shield (93% Coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	7x28	TC - Tinned Copper	.038

### Insulation

#### Insulation Material:

Insulation Material
PE - Polyethylene

### Outer Shield

#### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	93

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

## Overall Cabling

Overall Nominal Diameter: 0.244 in.

## Pair

### Pair Color Code Chart:

Number	Color
1	Clear & Blue

### Pair Lay Length & Direction:

Lay Length (in.)	Lay Length	Twists/ft. (twist/ft)
		4.1

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 2092)

Bulk Cable Weight: 39 lbs/1000 ft.

Max. Recommended Pulling Tension: 68 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

AWM Specification:	UL Style 2092 (300 V 60°C)
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1685 UL Loading
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### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	89272

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
78

### Nom. Inductance:

Inductance (µH/ft)
.020

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
19.7

### Nominal Velocity of Propagation:

VP (%)
66

### Nominal Delay:

Delay (ns/ft)
1.54

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
9.5

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.4

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.6
10	2.1
50	5.0
100	7.5
200	11.0
400	16.0

### Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 2092)

## Put Ups and Colors:

## 9272 Twinax - Twinaxial Cable

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9272 006U1000	1,000 FT	39.000 LB	BLUE, LIGHT		78 OHM TWINAX
9272 006U500	500 FT	20.000 LB	BLUE, LIGHT		78 OHM TWINAX
9272 006100	100 FT	4.500 LB	BLUE, LIGHT		78 OHM TWINAX
9272 0061000	1,000 FT	41.000 LB	BLUE, LIGHT	C	78 OHM TWINAX
9272 006500	500 FT	18.500 LB	BLUE, LIGHT	C	78 OHM TWINAX

**Notes:**

C = CRATE REEL PUT-UP.


# 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  Drain Wire	<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	
		CEC:	6000†	1828.8	924.0	420.0	.038"	Tinned		TC Braid	6.05						10	2.1	6.9
		CM:								4.1Ω/M'		Overall:					50	5.0	16.4
		CMG FT4, HLBCD (Haz Loc)						Copper		13.4Ω/km	.563	14.30					100	7.5	24.6
								9.5Ω/M'									200	11.0	36.1
						31.0Ω/km									400	16.0	52.5		


\*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  Drain Wire	<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	
		CEC:	6000†	1828.8	1488.0	676.4	.038"	Tinned		TC Braid	6.05						10	2.1	6.9
		CM:								4.1Ω/M'		Overall:					50	5.0	16.4
		CMG FT4, HLBCD (haz loc)						Copper		13.4Ω/km	.563	14.30					100	7.5	24.6
								9.5Ω/M'									200	11.0	36.1
						31.0Ω/km									400	16.0	52.5		

\*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  Drain Wire	<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		TC Braid	6.05						10	2.1	6.9
		CM:								4.1Ω/M'		Overall:					50	5.0	16.4
								Copper		13.4Ω/km	.500	12.70					100	7.5	24.6
								9.5Ω/M'									200	11.0	36.1
						31.0Ω/km									400	16.0	52.5		

\*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>  Drain Wire	<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
		CEC:	500	152.4	20.5	9.3	.038"	Tinned		11.2Ω/km							10	2.1	6.9
		CM:	U-500	U-152.4	20.5	9.3											50	5.0	16.4
			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
						9.5Ω/M'									400	16.0	52.5		
						31.0Ω/km													

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>  Drain Wire	<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									10	.9	3.0
																	20	1.3	4.3
								6.6Ω/M'									50	2.1	6.9
								21.5Ω/km									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.