

**Description:**

18 AWG stranded (7x26) bare copper conductors, polyethylene insulation, polyethylene inner jacket, tinned copper double braid shield (95% coverage), non-contaminating PVC outer jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7x26	BC - Bare Copper	0.046
1	18	7x26	BC - Bare Copper with Center Strand Tinned Copper	0.046

Insulation**Insulation Material:**

Insulation Material
PE - Polyethylene

Inner Jacket**Inner Jacket Material:**

Inner Jacket Material	Nom. Dia. (in.)
PE - Polyethylene	.285

Outer Shield**Outer Shield Material:**

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	TC - Tinned Copper	95
2	Braid	TC - Tinned Copper	95

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVCNC - Polyvinyl Chloride Non-Contaminating

Overall Cabling

Overall Nominal Diameter: 0.416 in.

Pair**Pair Color Code Chart:**

Number	Color
1	Clear & Clear

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
Bulk Cable Weight:	119 lbs/1000 ft.
Max. Recommended Pulling Tension:	237 lbs.
Min. Bend Radius (Install)/Minor Axis:	4.500 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

EU CE Mark: Yes

9250 Twinax - Twinaxial Cable

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
RG Type:	22B/U

Flame Test

UL Flame Test:	UL1685 UL Loading, VW-1
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

95

Nom. Inductance:

Inductance (µH/ft)

0.144

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

16.0

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/ft)

1.54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.6

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

0.9

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	0.3
10	0.9
20	1.3
50	2.1
100	3.0
400	6.3

Max. Operating Voltage - UL:

Voltage

750 V RMS

Transfer Impedance:

Description	Impedance
1 MHz	0.7 miliohms/meter
10 MHz	1.0 Miliohms/meter
50 MHz	7.0 Miliohms/meter

9250 Twinax - Twinaxial Cable

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9250 0101000	1,000 FT	121.000 LB	BLACK	C	RG 22B/U TWINAX
9250 010500	500 FT	61.500 LB	BLACK	C	RG 22B/U 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)

Aluminum Armored Blue Hose 300V 60°C 	129463	NEC:	1000†	304.8	122.0	55.5	20 AWG	.154	3.91	Beldfoil	Inner Jacket:	78	66%	19.7	64.6	1	.6	2.0
		CM CL2	6000†	1828.8	924.0	420.0	(7x28)			+55%	.238	6.05				10	2.1	6.9
		CEC:					.038"			TC Braid						50	5.0	16.4
		CM,					Tinned			4.1Ω/M'	Overall:					100	7.5	24.6
		CMG FT4, HLBCD (Haz Loc)					Copper			13.4Ω/km	.563	14.30				200	11.0	36.1
							9.5Ω/M'									400	16.0	52.5
							31.0Ω/km											

*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)

Steel Armored Blue Hose 300V 60°C 	139463	NEC:	1000†	304.8	220.0	100.0	20 AWG	.154	3.91	Beldfoil	Inner Jacket:	78	66%	19.7	64.6	1	.6	2.0
		CM CL2	6000†	1828.8	1488.0	676.4	(7x28)			+55%	.238	6.05				10	2.1	6.9
		CEC:					.038"			TC Braid						50	5.0	16.4
		CM,					Tinned			4.1Ω/M'	Overall:					100	7.5	24.6
		CMG FT4, HLBCD (haz loc)					Copper			13.4Ω/km	.563	14.30				200	11.0	36.1
							9.5Ω/M'									400	16.0	52.5
							31.0Ω/km											

*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)

Continuously Armored Blue Hose 300V 60°C 	189463	NEC:	2000†	609.6	258.0	117.1	20 AWG	.154	3.91	Beldfoil	Inner Jacket:	78	66%	19.7	64.6	1	.6	2.0
		PLTC					(7x28)			+55%	.238	6.05				10	2.1	6.9
							.038"			TC Braid						50	5.0	16.4
							Tinned			4.1Ω/M'	Overall:					100	7.5	24.6
							Copper			13.4Ω/km	.500	12.70				200	11.0	36.1
							9.5Ω/M'									400	16.0	52.5
							31.0Ω/km											

*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)

UL AWM Style 2092 (300V 60°C) 	9272	NEC:	100	30.5	4.5	2.0	20 AWG	.156	3.96	93%	.244	6.20	78	66%	19.7	64.6	1	.6	2.0
		CM	U-500	U-152.4	20.5	9.3	(7x28)			TC Braid							10	2.1	6.9
		CEC:	500	152.4	20.0	9.1	.038"			Shield							50	5.0	16.4
		CM	U-1000	U-304.8	41.0	18.6	Tinned			3.4Ω/M'	For Plenum version of 9272, see 89272. CPE jacket optional.					100	7.5	24.6	
			1000	304.8	40.0	18.2	Copper			11.2Ω/km						200	11.0	36.1	
							9.5Ω/M'										400	16.0	52.5
							31.0Ω/km												

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

80°C VW-1 	9250	—	500	152.4	61.5	27.9	18 AWG	.285	7.24	2	.416	10.57	95	66%	16.0	52.5	1	.3	1.0
		1000	304.8	121.0	54.9	(7x26)			TC Braid							10	.9	3.0	
						.046"			95%							20	1.3	4.3	
						BC			Shield							50	2.1	6.9	
						6.6Ω/M'			.9Ω/M'	CPE jacket optional.					100	3.0	9.8		
					21.5Ω/km			3.0Ω/km							400	6.3	20.7		

††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.