

**9182 Twinax - Twinaxial Cable**



For more Information  
please call  
  
1-800-Belden1



**Description**

22 AWG stranded (19x34) tinned copper conductors, Datalene® insulation, Duofoil® (100% Coverage) plus a stranded tinned copper drain wire, PVC jacket.

**Physical Characteristics (Overall):**

**Conductor:**

AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1.000	22	19x34	TC - Tinned Copper	0.031

**Insulation:**

Insulation Material

Ins Trade Name	Ins Material
Datalene®	FHDPE - Foam High Density Polyethylene

**Outer Shield:**

Outer Shield Material

Outer Shield Trade Name	Type	Outer Shield Material	% Coverage (%)
Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100

Outer Shield Drain Wire AWG

AWG	Stranding	Drain Wire Conductor Material
22	19x34	TC - Tinned Copper

Outer Shield Drain Wire Diameter .031

**Outer Jacket:**

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cabling:**

Overall Nominal Diameter: .345 in.

**Pair:**

Pair Color Code Chart

Number	Color
1	Black & Yellow

Pair Lay Length & Direction

Lay Length (in.)	Lay Length	Twists/ft. (twist/ft)
3.000		4.000

**Mechanical Characteristics (Overall):**

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

Bulk Cable Weight: 41 lbs/1000 ft.

Max. Recommended Pulling Tension: 28 lbs.

Min. Bend Radius (Install): 3.500 in.

**Applicable Specifications and Agency Compliance (Overall):**

**Applicable Standards:**

**9182 Twinax - Twinaxial Cable**

NEC/(UL) Specification CMX, CL2X

CEC/C(UL) Specification CMX

AWM Specification UL Style 2668 (30 V 60°C)

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

EU RoHS Compliance Date (mm/dd/yyyy) 01/01/2004

**Flame Test:**

UL Flame Test UL1685 UL Loading, VW-1

**Suitability:**

Suitability - Indoor Yes

Suitability - Outdoor Yes

Suitability - Aerial Yes - when supported by a messenger wire

**Plenum/Non-Plenum:**

Plenum (Y/N) N

Plenum Number 89182

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

Impedance (Ohm)
150.000

Nom. Inductance

Inductance (µH/ft)
0.293

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
8.800

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
16.500

Nominal Velocity of Propagation

VP (%)
78

Nominal Delay

Delay (ns/ft)
1.300

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
14.000

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.400
	10.000			1.200
	50.000			2.700
	100.000			4.300
	200.000			6.200
	400.000			8.800

Max. Operating Voltage - UL

Voltage
300 V RMS (CMX)
30 V RMS (UL AWM Style 2668)
150 V RMS (CL2X)

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Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
6.300

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
9182 0101000	1,000 FT	44.000 LB	BLACK	C	2 #22 FHDPE SHLD PVC BLK
9182 010500	500 FT	23.000 LB	BLACK	C	2 #22 FHDPE SHLD PVC BLK
9182 010U500	500 FT	21.500 LB	BLACK		2 #22 FHDPE SHLD PVC BLK

**Notes:**

C = CRATE REEL PUT-UP.

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