

**9860 Twinax - Twinaxial Cable**



For more Information  
please call  
  
1-800-Belden1



**Description**

16 AWG solid bare copper conductors, foam polyethylene insulation, Duofoil® (100% coverage) plus a tinned copper braid shield (90% coverage), PVC jacket.

**Physical Characteristics (Overall):**

**Conductor:**

AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1.000	16	Solid	BC - Bare Copper	0.051

**Insulation:**

Insulation Material

Ins Material
FPE - Foam Polyethylene

**Outer Shield:**

Outer Shield Material

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	90

**Outer Jacket:**

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cabling:**

Overall Nominal Diameter: .440 in.

**Pair:**

Pair Color Code Chart

Number	Color
1	Blue & Clear

**Mechanical Characteristics (Overall):**

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

UL Temperature Rating 60°C (UL AWM Style 2448)

Bulk Cable Weight: 98 lbs/1000 ft.

Max. Recommended Pulling Tension: 73 lbs.

Min. Bend Radius (Install): 4.500 in.

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

**Applicable Standards:**

NEC/(UL) Specification CMX

CEC/C(UL) Specification CMX

AWM Specification UL Style 2448 (300 V 60°C)

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

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

**Flame Test:**

UL Flame Test UL1685 UL Loading, VW-1

**Plenum/Non-Plenum:**

Plenum (Y/N) N

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

Impedance (Ohm)
124.000

Nom. Inductance

Description	Inductance (µH/ft)
(Loop)	0.240

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
10.900

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
19.300

Nominal Velocity of Propagation

VP (%)
78

Nominal Delay

Delay (ns/ft)
1.300

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
4.200

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.200
	10.000			0.700
	50.000			1.800
	100.000			2.900
	200.000			4.100
	400.000			6.200

Max. Operating Voltage - UL

Voltage
30 V RMS (UL AWM Style 2448)
300 V RMS (CMX)

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
1.300

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
9860 0101000	1,000 FT	103.000 LB	BLACK	C	2 #16 FPE SHLD PVC BLK
9860 0102000	2,000 FT	202.000 LB	BLACK	C	2 #16 FPE SHLD PVC BLK
9860 010500	500 FT	52.000 LB	BLACK	C	2 #16 FPE SHLD PVC BLK

**Notes:**

C = CRATE REEL PUT-UP.

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