

METRIC MEASUREMENT VERSION

## 9860 Twinax - Twinaxial Cable

For more Information  
please call

1-800-Belden1



### General 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. (mm)
1	16	Solid	BC - Bare Copper	1.2954

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation 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 Cable

Overall Nominal Diameter: 11.176 mm

#### 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: 145.844 Kg/Km

Max. Recommended Pulling Tension: 324.719 N

Min. Bend Radius/Minor Axis: 114.300 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMX

CEC/C(UL) Specification: CMX

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

EU Directive 2011/65/EU (ROHS II):	Yes
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, 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)

124

### Nom. Inductance:

Description	Inductance (µH/m)
(Loop)	0.78744

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### Nom. Capacitance Conductor to Conductor:

#### Capacitance (pF/m)

35.7629

### Nom. Capacitance Cond. to Other Conductor & Shield:

#### Capacitance (pF/m)

63.3233

### Nominal Velocity of Propagation:

#### VP (%)

78

### Nominal Delay:

#### Delay (ns/m)

4.2653

### Nom. Conductor DC Resistance:

#### DCR @ 20°C (Ohm/km)

13.7802

### Nominal Outer Shield DC Resistance:

#### DCR @ 20°C (Ohm/km)

4.2653

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.6562
10	2.2967
50	5.9058
100	9.5149
200	13.4521
400	20.3422

1 0.6562

10 2.2967

50 5.9058

100 9.5149

200 13.4521

400 20.3422

### Max. Operating Voltage - UL:

#### Voltage

30 V RMS (UL AWM Style 2448)

300 V RMS (CMX)
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### Put Ups and Colors:

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

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 05-14-2007

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