

# Detailed Specifications & Technical Data



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

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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

#### 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

#### Max. Operating Voltage - UL:

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

### 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 0105000	500 FT	52.000 LB	BLACK	C	2 #16 FPE SHLD PVC

#### Notes:

C = CRATE REEL PUT-UP.

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