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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
MIL 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:**

<b>Impedance (Ohm)</b>
124

**Nom. Inductance:**

<b>Description</b>	<b>Inductance (µH/m)</b>
(Loop)	0.78744

**Nom. Capacitance Conductor to Conductor:**

<b>Capacitance (pF/m)</b>
35.7629

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

<b>Capacitance (pF/m)</b>
63.3233

**Nominal Velocity of Propagation:**

<b>VP (%)</b>
78

**Nominal Delay:**

<b>Delay (ns/m)</b>
4.2653

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
13.7802

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
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:**

<b>Voltage</b>
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 010500	500 FT	52.000 LB	BLACK	C	2 #16 FPE SHLD PVC

**Notes:**

C = CRATE REEL PUT-UP.

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## **9860 Twinax - Twinaxial Cable**

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