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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
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MII Order #39 (China RoHS):	Yes
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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)
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(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)
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1	0.6562
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10	2.2967
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50	5.9058
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100	9.5149
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200	13.4521
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400	20.3422
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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 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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METRIC MEASUREMENT VERSION

9860 Twinax - Twinaxial Cable

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