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1-800-Belden1



## General Description:

18 AWG solid .040" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (60% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BC - Bare Copper	1.016

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	4.572

### 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	60

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 6.858 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 1354)

Bulk Cable Weight: 52.087 Kg/Km

Max. Recommended Pulling Tension: 195.721 N

Min. Bend Radius/Minor Axis: 69.850 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

AWM Specification: UL Style 1354 (30 V 80°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
RG Type:	6/U

### Flame Test

UL Flame Test:	UL1685 UL Loading
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Plenum/Non-Plenum

Plenum Number:	89248 and 82248
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
75

### Nom. Inductance:

Inductance (µH/m)
0.347786

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.1522

### Nominal Velocity of Propagation:

VP (%)
82

### Nominal Delay:

Delay (ns/m)
4.06844

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
20.9984

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
18.3736

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
5	1.77174
10	2.2967
50	4.9215
100	6.562
200	9.1868
400	13.124
700	17.3893
900	20.0141
1000	21.3265
1500	27.2323

### Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 1354); 300 V RMS (CM)

**Minimum Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		5	450	23

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9248 010U1000	305 MT	16.783 KG	BLACK		#18 PE/GIFHDPE SH FRPVC
9248 010U500	152 MT	8.618 KG	BLACK		#18 PE/GIFHDPE SH FRPVC
9248 0101000	305 MT	17.237 KG	BLACK	C	#18 PE/GIFHDPE SH FRPVC
9248 0101640	500 MT	29.012 KG	BLACK	C	#18 PE/GIFHDPE SH CORE
9248 0103280	1,000 MT	55.048 KG	BLACK	C	#18 PE/GIFHDPE SH FRPVC
9248 010500	152 MT	8.618 KG	BLACK	C	#18 PE/GIFHDPE SH FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 08-13-2012

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