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please call

1-800-Belden1



## General Description:

18 AWG solid .040" bare copper conductor, plenum, foam FEP insulation, Duofoil® + tinned copper braid shield (65% coverage), FEP 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)
FFEP - Foam Fluorinated Ethylene Propylene	4.318

### 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	65

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

### Overall Cable

Overall Nominal Diameter: 5.639 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 44.646 Kg/Km

Max. Recommended Pulling Tension: 200.169 N

Min. Bend Radius/Minor Axis: 76.200 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

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

RG Type: 6/U

**Flame Test**

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

**Suitability**

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes

**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	9248

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

<b>Impedance (Ohm)</b>
75

**Nom. Inductance:**

<b>Inductance (µH/m)</b>
0.29529

**Nom. Capacitance Conductor to Shield:**

<b>Capacitance (pF/m)</b>
54.1365

**Nominal Velocity of Propagation:**

<b>VP (%)</b>
82

**Nominal Delay:**

<b>Delay (ns/m)</b>
4.06844

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
20.9984

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
16.7331

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
10	2.2967
50	4.9215
100	6.8901
200	10.1711
400	14.7645
700	19.686
900	22.6389
1000	23.9513

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Minimum Return Loss:**

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

**Notes (Overall)**

Notes: 100% Sweep tested 5 MHz to 450 MHz.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89248 0101000	1,000 FT	33.000 LB	BLACK	C	#18 FFEP RG 6/U COAX
89248 0102000	2,000 FT	64.000 LB	BLACK	C	#18 FFEP RG 6/U COAX
89248 0105000	500 FT	16.500 LB	BLACK	C	#18 FFEP RG 6/U COAX

Notes:

## METRIC MEASUREMENT VERSION

**89248 Coax - 75 Ohm Coax**

C = CRATE REEL PUT-UP.

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