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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

MII 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:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.29529

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

54.1365

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)

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:

Voltage
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:

C = CRATE REEL PUT-UP.

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