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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), Flam arrest® 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 Trade Name	Outer Jacket Material
Flam arrest®	LS PVC - Low Smoke Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 5.639 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 41.670 Kg/Km

Max. Recommended Pulling Tension: 200.169 N

Min. Bend Radius/Minor Axis: 57.150 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
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### Suitability

Suitability - Indoor:	Yes
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### 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	5.2496
100	7.2182
200	9.843
400	15.0926
700	21.6546
900	25.2637
1000	26.9042
1500	35.1067
1600	36.091
2000	42.3249

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Max. Operating Voltage - Non-UL:**

Voltage
300 V RMS

**Minimum Return Loss:**

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

**Sweep Test**

**Sweep Testing:** 100% sweep tested. 5 MHz to 450 MHz.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82248 877U1000	305 MT	13.154 KG	NATURAL		#18 FFEP RG6/U FLMRST
82248 8771000	305 MT	14.061 KG	NATURAL	C	#18 FFEP RG6/U FLMRST

**Notes:**

C = CRATE REEL PUT-UP.

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