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1-800-Belden1



### General Description:

18 AWG solid .040" bare copper-covered steel conductor, foam FEP insulation, Duofoil® (100% coverage) plus a tinned copper braid shield (95% coverage), FEP jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BCCS - Bare Copper Covered Steel	.040

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FFEP - Foam Fluorinated Ethylene Propylene	.170

#### 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	95

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

#### Overall Cable

Overall Nominal Diameter: 0.234 in.

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 43 lbs/1000 ft.

Max. Recommended Pulling Tension: 141 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATVP, 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

Series Type: Series 6

#### Flame Test

UL Flame Test: NFPA 262

CSA Flame Test:	FT6
<b>Plenum/Non-Plenum</b>	
Plenum (Y/N):	Yes
Plenum Number:	87120, 82120

### Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

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

**Nom. Inductance:**

<b>Inductance (µH/ft)</b>
.09

**Nom. Capacitance Conductor to Shield:**

<b>Capacitance (pF/ft)</b>
16.5

**Nominal Velocity of Propagation:**

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

**Nominal Delay:**

<b>Delay (ns/ft)</b>
1.24

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
28.0

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
1.7

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.3
10	.66
50	1.6
100	2.2
200	3.0
400	4.6
700	6.6
900	7.7
1000	8.2

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Minimum Structural Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	400	20

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89120 0101000	1,000 FT	46.000 LB	BLACK	C	#18 FFEP SH FEP
89120 010500	500 FT	23.000 LB	BLACK	C	#18 FFEP SH FEP

**Notes:**

C = CRATE REEL PUT-UP.

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