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## General Description:

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, plenum, foam FEP insulation, Duobond® II + aluminum braid shield (60% coverage), Flamarrest® 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	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60

### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 0.235 in.

## Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 25 lbs/1000 ft.

Max. Recommended Pulling Tension: 126 lbs.

Min. Bend Radius/Minor Axis: 2.250 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

MII 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
Non-Plenum Number:	9116, 9116N, 9116R

### Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
75

**Nom. Inductance:**

Inductance (µH/ft)  
.09

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)  
16.3

**Nominal Velocity of Propagation:**

VP (%)  
83

**Nominal Delay:**

Delay (ns/ft)  
1.24

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
28.0

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
9

**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:**

Voltage  
300 V RMS

**Minimum Structural Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	1000	20

**Sweep Test**

Sweep Testing: 5 MHz - 1 GHz

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9116P 010U1000	1,000 FT	27.000 LB	BLACK		#18 FFEP RG6/U FLRST
9116P 010U500	500 FT	14.000 LB	BLACK		#18 FFEP RG6/U FLRST
9116P 0101000	1,000 FT	27.000 LB	BLACK	C	#18 FFEP RG6/U FLRST
9116P 877U1000	1,000 FT	27.000 LB	NATURAL		#18 FFEP RG6/U FLRST
9116P 8771000	1,000 FT	27.000 LB	NATURAL	C	#18 FFEP RG6/U FLRST

**Notes:**

C = CRATE REEL PUT-UP.

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