




**Product:** [7916AP](#) 

Broadband Coax, Series 6, 18 AWG Solid BC, Quad Shield, Flamarrest® Jkt, CMP

## Product Description

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Conductor, FEP Insulation, Foil + 60% Aluminum Braid + Foil + 40% Aluminum Braid Shield, Flamarrest® Jacket, CMP

## Technical Specifications

### Product Overview

Suitable Applications:	Broadband, Cable Television (CATV), RF drop cable, Direct Broadcast Satellite (DBS), Over-The-Air (OTA) antennas
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### Construction Details

RG Type:	6
Series Type:	6

### Conductor

AWG	Stranding	Nom. Diameter	Material
18	Solid	0.040 in	BC - Bare Copper

### Insulation

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.170

### Outer Shield Material

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
2	Braid	Aluminum		60%
3	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
4	Braid	Aluminum		40%

### Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.248 in

### Electrical Characteristics

#### Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss [dB]
5 - 1000 MHz	20 dB
1000 - 2250 MHz	15 dB
2250 - 3000 MHz	10 dB

#### Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	0.3 dB/100ft
10 MHz	0.7 dB/100ft
50 MHz	1.6 dB/100ft
100 MHz	2.1 dB/100ft

200 MHz	2.9 dB/100ft
400 MHz	4.3 dB/100ft
700 MHz	6.1 dB/100ft
750 MHz	6.4 dB/100ft
900 MHz	7.1 dB/100ft
1000 MHz	7.6 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance	Nom. Velocity
6.4 Ohm/1000ft	4.8 Ohm/1000ft	16.3 pF/ft	75 Ohm	83%

#### Voltage

UL Voltage Rating
300 V (CMP)

## Mechanical Characteristics

#### Temperature

UL Rating	Operating
75°C	0°C to +75°C

#### Bend Radius

Installation Min.
2.5 in

Bulk Cable Weight:	29 lbs/1000ft
Max. Pull Tension:	92 lbs

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	NFPA 262
NEC / UL Compliance:	CMP, CATVP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	7916A

## History

Update and Revision:	Revision Number: 0.326 Revision Date: 07-31-2020
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