



**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

Series Type:	6
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#### Conductor

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

#### Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.170 in (4.32 mm)	White

#### Outer Shield

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	Nom. Diameter
PVC - Polyvinyl Chloride	0.248 in (6.30 mm)

Overall Cable Diameter (Nominal):	0.248 in (6.30 mm)
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#### Electrical Characteristics

##### Return Loss (RL)

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

##### Attenuation

Frequency	Nom. Attenuation
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	8.2 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
6.4 Ohm/1000ft	4.8 Ohm/1000ft (16 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	83%

#### Voltage

UL Voltage Rating
300 V (CMP)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C	-20°C to +75°C

#### Bend Radius

Installation Min.
2.5 in (64 mm)

Max. Pull Tension:	137 lbs (62.1 kg)
Bulk Cable Weight:	39 lbs/1000ft

### Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), 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: 0.472 Revision Date: 04-13-2023
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### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7916AP 8771000	Natural	Reel	1,000 ft	612825191131	C
7916AP 877U1000	Natural	UnReel	1,000 ft	612825001836	

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