



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 |
|------------------------|--|

Construction Details

| | |
|--------------|---|
| Series Type: | 6 |
|--------------|---|

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) |
|-----------------------------------|--------------------|

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

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| 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 |
|-----------------|---------|------------|----------|--------------|
| 7916AP 8771000 | Natural | Reel | 1,000 ft | 612825191131 |
| 7916AP 877U1000 | Natural | UnReel | 1,000 ft | 612825001836 |

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