



**Product:** [9116P](#)

Broadband Coax, Series 6, 18 AWG Solid BCCS, Foil + 60% AL Braid, Flamarrest® Jkt, CMP

### Product Description

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

### Technical Specifications

#### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Broadband, Cable Television (CATV), RF drop cable, Over-The-Air (OTA) antennas |
|------------------------|--|

#### Construction Details

|          |   |
|----------|---|
| RG Type: | 6 |
|----------|---|

#### Conductor

| Size   | Stranding | Nom. Diameter | Material                         |
|--------|-----------|---------------|----------------------------------|
| 18 AWG | Solid     | 0.040 in      | BCCS - Bare Copper Covered Steel |

#### 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%      |

#### Outer Jacket

| Material                 | Nom. Diameter      |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.235 in (5.97 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.235 in (5.97 mm) |
|-----------------------------------|--------------------|

#### Electrical Characteristics

##### Return Loss (RL)

| Frequency    | Min. Structural Return Loss |
|--------------|-----------------------------|
| 5 - 1000 MHz | 20 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 | 7.6 dB/100ft |

#### Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR    | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------|--------------------------|---------------------------------|-------------------------------|------------------------|
| 28 Ohm/1000ft      | 9 Ohm/1000ft (30 Ohm/km) | 16.3 pF/ft (53.5 pF/m)          | 75 Ohm                        | 83%                    |

#### Voltage

|                          |
|--------------------------|
| <b>UL Voltage Rating</b> |
| 300 V (CMP)              |

## Mechanical Characteristics

#### Temperature

|                  |
|------------------|
| <b>Operating</b> |
| -20°C to +75°C   |

#### Bend Radius

|                          |
|--------------------------|
| <b>Installation Min.</b> |
| 3 in (76 mm)             |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 150 lbs (68 kg) |
| Bulk Cable Weight: | 25 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:               | 9116, 9116R  |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.472 Revision Date: 04-13-2023 |
|----------------------|--|

## Part Numbers

#### Variants

| Item #         | Color   | Putup Type | Length   | UPC          | Footnote |
|----------------|---------|------------|----------|--------------|----------|
| 9116P 010U500  | Black   | UnReel     | 500 ft   | 612825224501 |          |
| 9116P 0101000  | Black   | Reel       | 1,000 ft | 612825224464 | C        |
| 9116P 010U1000 | Black   | UnReel     | 1,000 ft | 612825224471 |          |
| 9116P 8771000  | Natural | Reel       | 1,000 ft | 612825224495 | C        |
| 9116P 877U1000 | Natural | UnReel     | 1,000 ft | 612825224525 |          |

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