



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

Broadband Coax, Series 6, 18 AWG Solid BCCS, Foil + 60% AL Braid, PVC Jkt, CMR

**Product Description**

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, Foil + 60% Aluminum Braid Shield, PVC Jacket, CMR

**Technical Specifications**

**Product Overview**

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

**Construction Details**

|              |   |
|--------------|---|
| Series 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 |
|--------------------------|--------------------------|------------|
| PE - Polyethylene (Foam) | 0.180 in (4.57 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 | 0.275 in (6.99 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.275 in (6.99 mm) |
|-----------------------------------|--------------------|

**Electrical Characteristics**

**Return Loss (RL)**

| Frequency    | Min. Structural Return Loss |
|--------------|-----------------------------|
| 5 - 1000 MHz | 20 dB                       |

**Attenuation**

| Frequency | Max. Attenuation |
|-----------|------------------|
| 5 MHz     | 0.58 dB/100ft    |
| 55 MHz    | 1.60 dB/100ft    |
| 211 MHz   | 3.05 dB/100ft    |
| 250 MHz   | 3.30 dB/100ft    |
| 270 MHz   | 3.37 dB/100ft    |
| 300 MHz   | 3.55 dB/100ft    |
| 330 MHz   | 3.74 dB/100ft    |
| 350 MHz   | 3.85 dB/100ft    |
| 400 MHz   | 4.15 dB/100ft    |

|          |               |
|----------|---------------|
| 450 MHz  | 4.40 dB/100ft |
| 500 MHz  | 4.66 dB/100ft |
| 550 MHz  | 4.90 dB/100ft |
| 600 MHz  | 5.10 dB/100ft |
| 750 MHz  | 5.65 dB/100ft |
| 870 MHz  | 6.11 dB/100ft |
| 1000 MHz | 6.55 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) | 16.2 pF/ft (53.1 pF/m)          | 75 Ohm                        | 83%                    |

Voltage

| UL Voltage Rating    |
|----------------------|
| 350 V RMS (CMR, CMG) |

Mechanical Characteristics

Temperature

| Operating      |
|----------------|
| -30°C to +80°C |

Bend Radius

| Installation Min. |
|-------------------|
| 3 in (76 mm)      |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 150 lbs (68 kg) |
| Bulk Cable Weight: | 30 lbs/1000ft   |

Standards and Compliance

|                                  |                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor - Riser, Indoor, Outdoor, Sunlight Resistance, Aerial - Black only, When supported by messenger wire                      |
| Sustainability:                  | CA Prop 65                                                                                                                       |
| Flammability / Reaction to Fire: | UL1666 Vertical Riser                                                                                                            |
| NEC / UL Compliance:             | CMR, CATVR, CMG                                                                                                                  |
| CEC / C(UL) Compliance:          | CMG                                                                                                                              |
| 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)                                                                                                  |
| Other Standard Compliance(s):    | ANSI/SCTE 74                                                                                                                     |
| Plenum Number:                   | 9116P                                                                                                                            |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.476 Revision Date: 04-29-2024 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #         | Color | Putup Type | Length   | UPC          |
|----------------|-------|------------|----------|--------------|
| 9116R 0101000  | Black | Reel       | 1,000 ft | 612825224518 |
| 9116R 010U1000 | Black | UnReel     | 1,000 ft | 612825224532 |

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