



**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 |
|--------------------------|--------------------------|
| PE - Polyethylene (Foam) | 0.180 in (4.57 mm)       |

#### 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 (92 Ohm/km) | 9 Ohm/1000ft (30 Ohm/km) | 16.2 pF/ft (53.1 pF/m)          | 75 Ohm                        | 83%                    |

#### Voltage

|                          |
|--------------------------|
| <b>UL Voltage Rating</b> |
| 300 V (CMR, CMG)         |

## Mechanical Characteristics

#### Temperature

|                  |
|------------------|
| <b>Operating</b> |
| -30°C to +75°C   |

#### Bend Radius

|                          |
|--------------------------|
| <b>Installation Min.</b> |
| 2.8 in                   |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 150 lbs (68 kg) |
| Bulk Cable Weight: | 29 lbs/1000ft   |

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor - Riser, Indoor, Outdoor, Sunlight Resistance   |
| 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: 0.358 Revision Date: 12-15-2021 |
|----------------------|--|

#### Variants

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

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.