



Product: [9116E](#)

Life Cycle Status: Discontinued

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

Product Description

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

Technical Specifications

Product Overview

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

Construction Details

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

Conductor

| No. of Elements | Size | Stranding | Nom. Diameter | Material |
|-----------------|--------|-----------|---------------|----------------------------------|
| 1 | 18 AWG | Solid | 1.02 mm | BCCS - Bare Copper Covered Steel |

Insulation

| Material | Nom. Insulation Diameter |
|--------------------------|--------------------------|
| PE - Polyethylene (Foam) | 4.6 mm (0.18 in) |

Outer Shield

| Layer | Outer Shield Type | Material | Coverage |
|-------|-------------------|-------------------------------|----------|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | 100% |
| 2 | Braid | Aluminum | 56% |

Outer Jacket

| Material | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 6.9 mm |

Electrical Characteristics

Return Loss (RL)

| Frequency | Min. Return Loss |
|----------------|------------------|
| 5 - 470 MHz | 20 dB |
| 470 - 1000 MHz | 18 dB |

| | |
|--------------|--|
| Table Notes: | In each frequency band, 3 peak values up to 4 dB lower are allowed |
|--------------|--|

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 5 MHz | 2.8 dB/100m |
| 50 MHz | 4.9 dB/100m |
| 100 MHz | 6.5 dB/100m |
| 200 MHz | 9 dB/100m |
| 400 MHz | 13 dB/100m |
| 600 MHz | 16.3 dB/100m |
| 800 MHz | 18.9 dB/100m |
| 1000 MHz | 21.8 dB/100m |

| | |
|--------------|-----------------------------|
| Table Notes: | Max. attenuation 10% higher |
|--------------|-----------------------------|

Electricals

| Max. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|------------------------------|---------------------------|---------------------------------|-------------------------------|------------------------|
| 105 Ohm/km (32.0 Ohm/1000ft) | 51 Ohm/km (16 Ohm/1000ft) | 54 pF/m (16 pF/ft) | 75 Ohm | 82% |

Screening

| Frequency | Min. Screening Attenuation |
|----------------|----------------------------|
| 50 - 650 MHz | 65 dB |
| 650 - 1000 MHz | 75 dB |

Mechanical Characteristics

Temperature

| Operating | Storage |
|----------------|----------------|
| -40°C To +70°C | -40°C To +70°C |

Bend Radius

| Stationary Min. |
|-----------------|
| 70 mm (2.8 in) |

| | |
|--------------------|----------|
| Bulk Cable Weight: | 40 kg/km |
|--------------------|----------|

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor - Euroclass Eca |
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| ISO/IEC Compliance: | IEC 61196 |
| CENELEC Compliance: | EN 50117-1, EN 50117-9-1, EN 50290-2-20 |
| UK Regulation Compliance: | UKCA Mark |

History

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| Update and Revision: | Revision Number: 0.293 Revision Date: 05-14-2025 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | EAN |
|-------------|-------|------------|--------|---------------|
| 9116E.00305 | Black | Reel | 305 m | 8719605020130 |
| 9116E.01305 | White | Reel | 305 m | 8719605020147 |

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