




Product: [1829AC](#) 

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

Product Description

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

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

| AWG | Stranding | Nom. Diameter | Material |
|-----|-----------|---------------|------------------|
| 18 | Solid | 0.040 in | BC - Bare Copper |

Insulation

| Material | Nom. Diameter |
|--------------------------|---------------|
| PE - Polyethylene (Foam) | 0.180 in |

Outer Shield Material

| 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

| Material | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.270 in |

Electrical Characteristics

Return Loss (RL)

| Frequency [MHz] | Min. Structural Return Loss [dB] |
|-----------------|----------------------------------|
| 950 - 2250 MHz | 15 dB |
| 2250 - 3000 MHz | 10 dB |

Attenuation

| Frequency | Max. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 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 |
| 1450 MHz | 8.00 dB/100ft |
| 1800 MHz | 8.80 dB/100ft |
| 2250 MHz | 10.0 dB/100ft |
| 3000 MHz | 11.9 dB/100ft |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Impedence | Nom. Velocity |
|--------------------|-----------------------|---------------------------------|----------------|---------------|
| 6.4 Ohm/1000ft | 9 Ohm/1000ft | 16.2 pF/ft | 75 Ohm | 83% |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CM) |

Mechanical Characteristics

Temperature

| Operating |
|----------------|
| -40°C to +75°C |

Bend Radius

| Installation Min. |
|-------------------|
| 2.7 in |

| | |
|--------------------|---------------|
| Bulk Cable Weight: | 27 lbs/1000ft |
| Max. Pull Tension: | 66 lbs |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor (Not Riser or Plenum), Indoor, Sunlight Resistance |
| Sustainability: | CA Prop 65 |
| Flammability / Fire Resistance: | UL1685 UL Loading |
| NEC / UL Compliance: | CM, CATV |
| CEC / C(UL) Compliance: | CM |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | ANSI/SCTE 74 |

History

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| Update and Revision: | Revision Number: 0.346 Revision Date: 09-30-2020 |
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