




**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

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

#### 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 | 0.270 in (6.86 mm) |

#### Electrical Characteristics

##### Return Loss (RL)

| Frequency       | Min. Structural Return Loss |
|-----------------|-----------------------------|
| 950 - 2250 MHz  | 15 dB                       |
| 2250 - 3000 MHz | 10 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 |
| 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. Characteristic Impedance | Nom. Velocity of Prop. |
|----------------------------|--------------------------|---------------------------------|-------------------------------|------------------------|
| 6.4 Ohm/1000ft (21 Ohm/km) | 9 Ohm/1000ft (30 Ohm/km) | 16.2 pF/ft (53.1 pF/m)          | 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            |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 66 lbs (30 kg) |
| Bulk Cable Weight: | 27 lbs/1000ft  |

### Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor (Not Riser or Plenum), Indoor, Sunlight Resistance  |
| Sustainability:                  | CA Prop 65   |
| Flammability / Reaction to Fire: | UL1685 UL Loading  |
| NEC / UL Compliance:             | CM, CATV   |
| CEC / C(UL) Compliance:          | CM   |
| 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   |

### History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.358 Revision Date: 12-15-2021 |
|----------------------|--|

#### Variants

| Item #          | Color | Putup Type | Length   | UPC          |
|-----------------|-------|------------|----------|--------------|
| 1829AC 010C100  | Black | Coil       | 100 ft   | 612825123989 |
| 1829AC 010U250  | Black | UnReel     | 250 ft   | 612825124009 |
| 1829AC 010U500  | Black | UnReel     | 500 ft   | 612825124016 |
| 1829AC 0101000  | Black | Reel       | 1,000 ft | 612825124023 |
| 1829AC 010U1000 | Black | UnReel     | 1,000 ft | 612825123996 |
| 1829AC 008U1000 | Gray  | UnReel     | 1,000 ft | 612825123927 |
| 1829AC 009C100  | White | Coil       | 100 ft   | 612825123934 |
| 1829AC 009U250  | White | UnReel     | 250 ft   | 612825123958 |
| 1829AC 009U500  | White | UnReel     | 500 ft   | 612825123965 |
| 1829AC 0091000  | White | Reel       | 1,000 ft | 612825123972 |
| 1829AC 009U1000 | White | UnReel     | 1,000 ft | 612825123941 |

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