



**Product:** <u>1829A</u> ☑

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

### **Product Description**

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Covered Steel 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      | 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     | Таре              | Tri-Laminate (Alum+Poly+Alum) | Duobond® II         | 100%     |
| 2     | Braid             | Aluminum                      |                     | 60%      |

#### **Outer Jacket**

| N         | /laterial         | Nom. Diameter         |
|-----------|-------------------|-----------------------|
| PVC - Po  | olyvinyl Chloride | 0.270 in (6.86 mm)    |
| Overall C | Cable Diameter (  | Nominal): 0.270 in (6 |

#### **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 |

### 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 300 V (CM)

### **Mechanical Characteristics**

#### Temperature

Operating -40°C to +75°C

### Bend Radius

Installation Min. 2.7 in (69 mm)

 Max. Pull Tension:
 150 lbs (68 kg)

 Bulk Cable Weight:
 27 lbs/1000ft

# **Standards and Compliance**

| Environmental Suitability:       | Indoor (Not Riser or Plenum), Indoor, Aerial - Black only, When supported by messenger wire                                      |
|----------------------------------|--|
| Sustainability:                  | CA Prop 65   |
| Flammability / Reaction to Fire: | UL1685 UL Loading  |
| CPR Compliance:                  | CPR Euroclass: Eca   |
| NEC / UL Compliance:             | CM, CATV   |
| CEC / C(UL) Compliance:          | СМ   |
| 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) |
| UK Regulation Compliance:        | UKCA Mark  |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)  |
| Other Standard Compliance(s):    | ANSI/SCTE 74   |

# History

Update and Revision: Revision Number: 0.474 Revision Date: 04-29-2024

# **Part Numbers**

# Variants

| ltem #         | Color          | Putup Type | Length   | UPC          | Footnote |
|----------------|----------------|------------|----------|--------------|----------|
| 1829A 0101000  | Black          | Reel       | 1,000 ft | 612825123910 | С        |
| 1829A 010U1000 | Black          | UnReel     | 1,000 ft | 612825123903 |          |
| 1829A 0081000  | Gray           | Reel       | 1,000 ft | 612825123873 | Z        |
| 1829A 008U1000 | Gray           | UnReel     | 1,000 ft | 612825123866 | Z        |
| 1829A 0091000  | White          | Reel       | 1,000 ft | 612825123897 | Z        |
| 1829A 009U1000 | White          | UnReel     | 1,000 ft | 612825123880 | Z        |
| 1829A Q5H1000  | White, Neutral | Reel       | 1,000 ft | 612825123859 | Z        |
| 1829A Q5HU1000 | White, Neutral | UnReel     | 1,000 ft | 612825123842 | Z        |

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