



Product: [1829P](#)

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

Product Description

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Covered Steel Conductor, FEP Insulation, Foil + 60% Aluminum Braid Shield, Flamarrest® Jacket, CMP

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 |
|---|--------------------------|------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | 0.170 in (4.32 mm) | White |

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 | 0.235 in (5.97 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.235 in (5.97 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Return Loss (RL)

| Frequency | Min. Structural Return Loss |
|-----------------|-----------------------------|
| 5 - 2500 MHz | 15 dB |
| 2500 - 3000 MHz | 10 dB |

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz | 0.3 dB/100ft |
| 10 MHz | 0.7 dB/100ft |
| 50 MHz | 1.6 dB/100ft |
| 100 MHz | 2.1 dB/100ft |
| 200 MHz | 2.9 dB/100ft |
| 400 MHz | 4.3 dB/100ft |
| 700 MHz | 6.1 dB/100ft |

| | |
|----------|---------------|
| 750 MHz | 6.4 dB/100ft |
| 900 MHz | 7.1 dB/100ft |
| 1000 MHz | 7.6 dB/100ft |
| 1450 MHz | 9.6 dB/100ft |
| 1800 MHz | 11.0 dB/100ft |
| 2250 MHz | 12.7 dB/100ft |
| 3000 MHz | 15.1 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) | 16.3 pF/ft (53.5 pF/m) | 75 Ohm | 83% |

Voltage

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

Mechanical Characteristics

Temperature

| |
|------------------|
| Operating |
| -20°C to +75°C |

Bend Radius

| |
|--------------------------|
| Installation Min. |
| 2.4 in (61 mm) |

| | |
|--------------------|-----------------|
| Max. Pull Tension: | 150 lbs (68 kg) |
| Bulk Cable Weight: | 25 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor - Plenum, Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | NFPA 262 |
| CEC / C(UL) Compliance: | CMP |
| 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) |
| Non-Plenum Number: | 1829A |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.473 Revision Date: 05-03-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|----------------|---------|------------|----------|--------------|
| 1829P 010100 | Black | Reel | 100 ft | 612825124078 |
| 1829P 010U250 | Black | UnReel | 250 ft | 612825124054 |
| 1829P 010U500 | Black | UnReel | 500 ft | 612825124061 |
| 1829P 010U1000 | Black | UnReel | 1,000 ft | 612825124047 |
| 1829P 877100 | Natural | Reel | 100 ft | 612825124115 |
| 1829P 877U250 | Natural | UnReel | 250 ft | 612825124092 |
| 1829P 877U500 | Natural | UnReel | 500 ft | 612825124108 |
| 1829P 8771000 | Natural | Reel | 1,000 ft | 612825124122 |
| 1829P 877U1000 | Natural | UnReel | 1,000 ft | 612825124085 |

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