



Part Number: 1829P

DBS Cable, RG6, 18 AWG BCCS, Foil + Braid, CMP

Product Description

18 AWG solid .040" bare copper-covered steel conductor, foam FEP insulation, Duobond® II (100% coverage) and an aluminum braid shield (60% coverage), Flammarrest® jacket.

Technical Specifications

Product Overview

| | |
|------------------------|--------------------------|
| Environmental Space: | Indoor - Plenum |
| Suitable Applications: | Dish, Satellite, KU Band |

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|----------------------------------|------------------|-------------|
| 18 | Solid | BCCS - Bare Copper Covered Steel | 0.04 in | 1 |

| | |
|------------------|--------|
| Conductor Count: | 1 |
| Conductor Size: | 18 AWG |

Insulation

| Material | Nominal Diameter |
|--|------------------|
| FFEP - Foam Fluorinated Ethylene Propylene | 0.17 in |

Outer Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|-----------------------------|---------------------|--------------|
| Tape | 1 | Aluminum/Polyester/Aluminum | Bonded Duofoil® | 100 % |
| Braid | 2 | AL - Aluminum | | 60 % |

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter |
|---------------------------------------|---------------------|------------------|
| LS PVC - Low Smoke Polyvinyl Chloride | Flammarrest® | 0.235 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 28 Ohm/1000ft | 9 Ohm/1000ft | 9 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.3 pF/ft |

| | |
|------------|-----------------------|
| Shielding: | Multiple or Specialty |
|------------|-----------------------|

Inductance

| Nominal Inductance |
|--------------------|
| 0.09 µH/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm |

Return Loss (RL)

| Frequency [MHz] | Min. Structural Return Loss (SRL) |
|-----------------|-----------------------------------|
| 5 - 2500 MHz | 15 dB |
| 2500 - 3000 MHz | 10 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.3 dB/100ft |
| 10 MHz | 0.66 dB/100ft |
| 50 MHz | 1.5 dB/100ft |
| 100 MHz | 2.1 dB/100ft |
| 200 MHz | 3 dB/100ft |
| 400 MHz | 4.4 dB/100ft |
| 700 MHz | 6.1 dB/100ft |
| 900 MHz | 7.2 dB/100ft |
| 1000 MHz | 7.6 dB/100ft |
| 1450 MHz | 9.6 dB/100ft |
| 1800 MHz | 11 dB/100ft |
| 2250 MHz | 12.7 dB/100ft |
| 3000 MHz | 15.1 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.24 ns/ft | 83 % |

High Freq

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 1000 MHz | 9 dB/100ft |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS |

Temperature Range

| | |
|-----------------------|----------------|
| Operating Temp Range: | -20°C To +75°C |
|-----------------------|----------------|

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 25 lbs/1000ft |
| Max Recommended Pulling Tension: | 126 lbs |
| Min Bend Radius/Minor Axis: | 3 in |

Standards

| | |
|--------------------------|----------------|
| NEC/(UL) Specification: | CATVP, CMP |
| CEC/C(UL) Specification: | CMP |
| RG Type: | 6/U Type |
| Series Type: | Series 6 |
| RG / Series Type: | Series 6 |
| Other Specification: | CEC/C(UL): CMP |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-05-10 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|-----------|
| UL Flammability: | NFPA 262 |
| CSA Flammability: | FT6 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

| | |
|--------------------|-------|
| Non-Plenum Number: | 1829A |
|--------------------|-------|

Variants

| Item # | Color |
|----------------|---------|
| 1829P 010100 | Black |
| 1829P 010U1000 | Black |
| 1829P 010U250 | Black |
| 1829P 010U500 | Black |
| 1829P 877100 | Natural |
| 1829P 8771000 | Natural |
| 1829P 877U1000 | Natural |
| 1829P 877U250 | Natural |
| 1829P 877U500 | Natural |

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