



Product: [1839A](#)



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

Product Description

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II, Al. braid shield (60% coverage), .045" bare copper-covered steel static ground, PVC jacket.

Technical Specifications

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 | |

| Insulation | |
|---------------------------|------------------|
| Material | Nominal Diameter |
| PE - Polyethylene (Foam) | 0.18 in |
| Table Notes: Gas Injected | |

| Outer Shield | | | | |
|--------------|-------|-------------------------------|---------------------|--------------|
| Type | Layer | Material | Material Trade Name | Coverage [%] |
| Tape | 1 | Tri-Laminate (Alum+Poly+Alum) | Duofoil® | 100% |
| Braid | 2 | Aluminum | | 60% |

| Outer Jacket | |
|--------------------------|------------------|
| Material | Nominal Diameter |
| PVC - Polyvinyl Chloride | 0.27 x 0.405 in |

Construction and Dimensions

| | |
|-------------------------|----------------------------------|
| Static Ground: | BCCS - Bare Copper Covered Steel |
| Static Ground Diameter: | 0.045 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 |
| 16.2 pF/ft |

| Inductance |
|--------------------|
| Nominal Inductance |
| 0.097 µH/ft |

| Impedance |
|----------------------------------|
| Nominal Characteristic Impedance |

| |
|--------|
| 75 Ohm |
|--------|

Return Loss (RL)

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

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 5 MHz | 0.5 dB/100ft |
| 55 MHz | 1.4 dB/100ft |
| 211 MHz | 2.6 dB/100ft |
| 500 MHz | 4.1 dB/100ft |
| 750 MHz | 5.1 dB/100ft |
| 862 MHz | 5.5 dB/100ft |
| 1000 MHz | 6 dB/100ft |
| 1450 MHz | 7.8 dB/100ft |
| 1800 MHz | 8.6 dB/100ft |
| 2250 MHz | 9.8 dB/100ft |
| 3000 MHz | 11.3 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.2 ns/ft | 83% |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 5 MHz | 0.58 dB/100ft |
| 55 MHz | 1.6 dB/100ft |
| 211 MHz | 3.05 dB/100ft |
| 500 MHz | 4.66 dB/100ft |
| 750 MHz | 5.65 dB/100ft |
| 862 MHz | 6.1 dB/100ft |
| 1000 MHz | 6.55 dB/100ft |
| 1450 MHz | 8 dB/100ft |
| 1800 MHz | 8.8 dB/100ft |
| 2250 MHz | 10 dB/100ft |
| 3000 MHz | 11.9 dB/100ft |

Voltage

| Non-UL Voltage Rating |
|-----------------------|
| 350 V RMS |

Temperature Range

| | |
|------------------------------|----------------|
| Non-UL Temp Rating: | 80°C |
| Operating Temperature Range: | -40°C To +80°C |

Mechanical Characteristics

| | |
|------------------------------|---------------|
| Bulk Cable Weight: | 41 lbs/1000ft |
| Max. Pull Tension: | 160 lbs |
| Min. Bend Radius/Minor Axis: | 3 in |

Standards

| | |
|--------------|---|
| RG Type: | 6 |
| Series Type: | 6 |

Applicable Environmental and Other Programs

| | |
|-----------------------------------|------------------------------|
| Environmental Space: | Indoor (Not Riser or Plenum) |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |

| | |
|--|-------------------------------|
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | No |
| MII Order #39 (China RoHS): | Yes |

Suitability

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

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|---------------|-------|-------------|----------|--------------|
| 1839A 0101000 | Black | Reel | 1,000 ft | 612825124276 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.385 Revision Date: 04-29-2024 |
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