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Part Number: 1186A



CATV Video, RG59, 20 AWG BCCS, Quad Shield (Foil + 65% Braid + Foil + 45% Braid), CM

Product Description

Series 59, 20 AWG solid .032" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid(s) shield (65% and 45% coverage), PVC jacket.

Technical Specifications

Product Overview

| Environmental Space: | Indoor (Not Riser or Plenum) |
|------------------------|------------------------------|
| Suitable Applications: | CATV, Broadband |

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | | Nominal Diameter | No. of Coax |
|------------------|-----------|-------------------------------------|--|------------------|-------------|
| 20 | Solid | BCCS - Bare Copper Covered Steel | | 0.032 in | 1 |
| Conductor Count: | | 1 | | | |
| Conductor Size: | | 20 AWG | | | |

Insulation

| Material | Nominal Diameter |
|--------------------------------------|------------------|
| Gas-injected FPE - Foam Polyethylene | 0.144 in |

Outer Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|-----------------------------|---------------------|--------------|
| Tape | 1 | Aluminum/Polyester/Aluminum | Bonded Duofoil® | 100 % |
| Braid | 2 | AL - Aluminum | | 65 % |
| Tape | 3 | Aluminum/Polyester/Aluminum | Duofoil® | 100 % |
| Braid | 4 | AL - Aluminum | | 45 % |

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.265 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 44.5 Ohm/1000ft | 7 Ohm/1000ft | 7.0 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield | |
|--------------------------------------|------------------------------------|
| 16.2 pF/ft | |
| Shielding: | Foil + Braid + Foil + Braid (Quad) |

Inductance



Impedance

| Nominal Characteristic Impedance | Nominal Characteristic Tolerance |
|----------------------------------|----------------------------------|
| 75 Ohm | ± 3 Ohm |

Return Loss (RL)

| Frequency [MHz] | Min. Structural Return Loss (SRL) |
|-----------------|-----------------------------------|
| 5 MHz | 20 dB |
| 1000 MHz | 20 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 5 MHz | 0.89 dB/100ft |
| 55 MHz | 1.95 dB/100ft |
| 211 MHz | 3.59 dB/100ft |
| 270 MHz | 4.05 dB/100ft |
| 300 MHz | 4.27 dB/100ft |
| 350 MHz | 4.64 dB/100ft |
| 400 MHz | 4.88 dB/100ft |
| 450 MHz | 5.30 dB/100ft |
| 550 MHz | 5.90 dB/100ft |
| 750 MHz | 6.96 dB/100ft |
| 870 MHz | 7.54 dB/100ft |
| 1000 MHz | 8.09 dB/100ft |

Delay

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

High Freq

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 5 MHz | 0.89 dB/100ft |
| 55 MHz | 1.95 dB/100ft |
| 211 MHz | 3.59 dB/100ft |
| 270 MHz | 4.05 dB/100ft |
| 300 MHz | 4.27 dB/100ft |
| 350 MHz | 4.64 dB/100ft |
| 400 MHz | 4.88 dB/100ft |
| 450 MHz | 5.3 dB/100ft |
| 550 MHz | 5.9 dB/100ft |
| 750 MHz | 6.96 dB/100ft |
| 870 MHz | 7.54 dB/100ft |
| 1000 MHz | 8.09 dB/100ft |

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

| Operating Temp Range: | -40°C To +80°C |
|-----------------------|----------------|
|-----------------------|----------------|

Mechanical Characteristics

| Bulk Cable Weight: | 30 lbs/1000ft |
|----------------------------------|---------------|
| Max Recommended Pulling Tension: | 140 lbs |
| Min Bend Radius/Minor Axis: | 2.75 in |

Standards

| NEC/(UL) Specification: | CATV, CM |
|--------------------------|-----------|
| CEC/C(UL) Specification: | CM |
| RG Type: | 59/U Type |
| Series Type: | Series 59 |
| RG / Series Type: | Series 59 |

Applicable Environmental and Other Programs

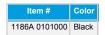
| EU Directive 2000/53/EC (ELV): | Yes |
|---------------------------------------|-------------------------------|
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | No |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Flammability, LS0H, Toxicity Testing

| UL Flammability: | UL1685 UL Loading |
|--------------------|-------------------|
| UL voltage rating: | 300 V RMS |

Part Number

Variants



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