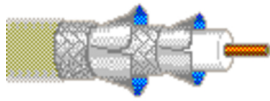


Part Number: 1151A



CATV Video, RG59, 20 AWG BCCS, Quad Shield (Foil + 55% Braid + Foil + 50% Braid), CMP

Product Description

Series 59, 20 AWG solid .032" bare copper-covered steel conductor, plenum, foam FEP insulation, Duofoil® (100% coverage); TC braid shield (55% and 50% coverage), FEP jacket.

Technical Specifications

Product Overview

| | |
|------------------------|-----------------|
| Environmental Space: | Indoor - 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 | Material Trade Name | Nominal Diameter |
|--------------------------------------------|---------------------|------------------|
| FFEP - Foam Fluorinated Ethylene Propylene | Teflon® | 0.14 in |

Outer Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|-----------------------------|---------------------|--------------|
| Tape | 1 | Aluminum/Polyester/Aluminum | Duofoil® | 100 % |
| Braid | 2 | TC - Tinned Copper | | 55 % |
| Tape | 3 | Aluminum/Polyester/Aluminum | Duofoil® | 100 % |
| Braid | 4 | TC - Tinned Copper | | 50 % |

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter |
|--------------------------------------|---------------------|------------------|
| FEP - Fluorinated Ethylene Propylene | Teflon® | 0.236 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 26 Ohm/1000ft | 2.3 Ohm/1000ft | 2.3 Ohm/1000ft |

Capacitance

| |
|--------------------------------------|
| Nom. Capacitance Conductor to Shield |
| 16.5 pF/ft |

| | |
|------------|------------------------------------|
| Shielding: | Foil + Braid + Foil + Braid (Quad) |
|------------|------------------------------------|

Inductance

| |
|--------------------|
| Nominal Inductance |
| 0.093 µH/ft |

Impedance

Nominal Characteristic Impedance

75 Ohm

Return Loss (RL)

| Frequency [MHz] | Min. Structural Return Loss (SRL) |
|-----------------|-----------------------------------|
| 5 MHz | 20 dB |
| 400 MHz | 20 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.4 dB/100ft |
| 10 MHz | 0.8 dB/100ft |
| 50 MHz | 1.8 dB/100ft |
| 100 MHz | 2.6 dB/100ft |
| 200 MHz | 3.8 dB/100ft |
| 400 MHz | 5.6 dB/100ft |
| 700 MHz | 7.6 dB/100ft |
| 900 MHz | 8.8 dB/100ft |
| 1000 MHz | 9.4 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.21 ns/ft | 84 % |

High Freq

| Min. SRL (Structural Return Loss) |
|-----------------------------------|
| 20 dB |

Voltage

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

Temperature Range

| | |
|-----------------------|-----------------|
| Non-UL Temp Rating: | 200°C |
| Operating Temp Range: | -70°C To +200°C |

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 37 lbs/1000ft |
| Max Recommended Pulling Tension: | 84 lbs |
| Min Bend Radius/Minor Axis: | 2.5 in |

Standards

| | |
|--------------------------|-----------|
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| 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): | 2005-04-01 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|-----------------------|----------------------------------------|
| Suitability - Aerial: | Yes - When supported by messenger wire |
|-----------------------|----------------------------------------|

| | |
|------------------------------------|-----|
| Suitability - Burial: | Yes |
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | No |

Flammability, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Footnote |
|---------------|-------------|----------|
| 1151A A8R1000 | Beige, Snow | C |

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

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