



Product: 8212 ☑

Analog Video, RG59, #20 Solid BCCS, 95% BC Braid, PE Jacket

Product Description

20 AWG solid .032" bare copper-covered steel conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), polyethylene jacket.

Technical Specifications

Physical Characteristics (Overall)

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

| Material | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.143 in |

Outer Shield

| Type | Material | Coverage [%] | |
|-------|------------------|--------------|--|
| Braid | Bare Copper (BC) | 95% | |

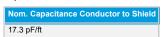
Outer Jacket

| Material | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.242 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|--------------------------|--|--------------------------|---------------------|
| 44.5 Ohm/1000ft | 44.5 Ohm/1000ft | 2.6 Ohm/1000ft | 2.6 Ohm/1000ft |



Inductance

Nominal Inductanc 0.097 µH/ft

Impedance

Nominal Characteristic Impedance 75 Ohm

Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 5-450 MHz | 23 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.6 dB/100ft |
| 10 MHz | 1 dB/100ft |
| 50 MHz | 2.1 dB/100ft |
| 100 MHz | 3 dB/100ft |
| 200 MHz | 4.5 dB/100ft |
| 400 MHz | 6.6 dB/100ft |
| 700 MHz | 8.9 dB/100ft |
| 900 MHz | 10.1 dB/100ft |
| 1000 MHz | 10.9 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.3 ns/ft | 78% |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 400 MHz | 6.9 dB/100ft |

Voltage

Non-UL Voltage Rating 300 V RMS

Temperature Range

| Non-UL Temp Rating: | 80°C |
|------------------------------|----------------|
| Operating Temperature Range: | -55°C To +80°C |

Mechanical Characteristics

| Bulk Cable Weight: | 30 lbs/1000ft |
|------------------------------|---------------|
| Max. Pull Tension: | 107 lbs |
| Min. Bend Radius/Minor Axis: | 2.5 in |

Standards

| CPR Euroclass: | Fca |
|----------------|-----|
| RG Type: | 59 |
| Series Type: | 59 |

Applicable Environmental and Other Programs

| Environmental Space: | Outdoor |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/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 - Aerial: | Yes - When supported by messenger wire |
|------------------------|--|
| Suitability - Burial: | Yes |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |

Plenum/Non-Plenum

Related Part Numbers

Variants

| 8212 010500 | Black | Reel | 500 ft | 612825355571 |
|---------------|-------|--------|----------|--------------|
| 8212 010U500 | Black | UnReel | 500 ft | 612825196150 |
| 8212 0101000 | Black | Reel | 1,000 ft | 612825358671 |
| 8212 010U1000 | Black | UnReel | 1,000 ft | 612825355564 |

Footnote: C - CRATE REEL PUT-UP.

History

| Update and Revision: | Revision Number: 0.344 Revision Date: 11-09-2022 | | | |
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