



**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 |
|-----|-----------|----------------------------------|------------------|-------------|
| 20  | Solid     | BCCS - Bare Copper Covered Steel | 0.032 in         | 1           |

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      |

#### Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 17.3 pF/ft                           |

#### Inductance

| Nominal Inductance |
|--------------------|
| 0.097 $\mu$ H/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 Temp 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

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

#### Part Number

#### Variants

| Item # | Color | Put-Up Type | Length | UPC |
|--------|-------|-------------|--------|-----|
|--------|-------|-------------|--------|-----|