

Product: [9310](#) 

50 Ohm, RG58, 20 AWG



## Product Description

RG-58/U type, 20 AWG solid .033" bare copper conductor, polyethylene insulation, Duobond® II + tinned copper braid shield (55% coverage), PVC jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material         | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 20  | Solid     | BC - Bare Copper | 0.033 in         | 1           |

Conductor Count:

#### Insulation

| Material          | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.114 in         |

#### Outer Shield Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] |
|-------|-------|--------------------|---------------------|--------------|
| Tape  | 1     | Alum / Poly / Alum | Bonded Duofoil®     | 100%         |
| Braid | 2     | Tinned Copper (TC) |                     | 55%          |

#### Outer Jacket Material

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.193 in         |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--|--------------------------|---------------------|
| 9.4 Ohm/1000ft        | 9.4 Ohm/1000ft                             | 8 Ohm/1000ft             | 8 Ohm/1000ft        |

#### Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 30.8 pF/ft                           |

#### Inductance

| Nominal Inductance |
|--------------------|
| 0.09 µH/ft         |

#### Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 50 Ohm                           |

#### High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.46 dB/100ft       |

|          |               |
|----------|---------------|
| 10 MHz   | 1.4 dB/100ft  |
| 50 MHz   | 2.8 dB/100ft  |
| 100 MHz  | 3.8 dB/100ft  |
| 200 MHz  | 5.4 dB/100ft  |
| 400 MHz  | 7.9 dB/100ft  |
| 700 MHz  | 11.1 dB/100ft |
| 900 MHz  | 12.8 dB/100ft |
| 1000 MHz | 13.9 dB/100ft |

#### Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.54 ns/ft    | 66%                                      |

#### Voltage

| Non-UL Voltage Rating | UL Voltage Rating |
|-----------------------|-------------------|
| 1400 V RMS            | 30 V RMS          |

#### Temperature Range

|                       |                |
|-----------------------|----------------|
| UL Temp Rating:       | 60°C           |
| Operating Temp Range: | -40°C To +60°C |

#### Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 20 lbs/1000ft |
| Max. Pull Tension:          | 12.4 lbs      |
| Min Bend Radius/Minor Axis: | 2 in          |

#### Standards

|                          |                           |
|--------------------------|---------------------------|
| UL AWM Style Compliance: | UL Style 1354 (30 V 60°C) |
| CPR Euroclass:           | Eca                       |
| RG Type:                 | 58/U Type                 |

#### Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| Environmental Space:                  | Indoor/Outdoor                |
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/11/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | No                            |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

#### Suitability

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

#### Flammability, LSOH, Toxicity Testing

|                    |               |
|--------------------|---------------|
| IEC Flammability:  | IEC 60332-1-2 |
| UL voltage rating: | 30 V RMS      |

#### Plenum/Non-Plenum

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

#### Part Number

#### Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 9310 010500   | Black | Reel       | 500 ft   | 612825227793 |
| 9310 0101000  | Black | Reel       | 1,000 ft | 612825227816 |
| 9310 010U1000 | Black | UnReel     | 1,000 ft | 612825227854 |

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

**History**

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.285 Revision Date: 04-28-2020 |
|----------------------|--|

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