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1-800-Belden1



### General Description:

RG-58A/U type, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, Duobond® II + tinned copper braid shield (55% acoverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 20  | 19x32     | TC - Tinned Copper | .037       |

Total Number of Conductors: 1

#### Insulation

Insulation Material:

| Insulation Material     | Dia. (in.) |
|-------------------------|------------|
| FPE - Foam Polyethylene | .114       |

#### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material                      | Coverage (%) |
|---------|-------------------------|-------|--------------------------------------------|--------------|
| 1       | Bonded Duofoil®         | Tape  | Aluminum Foil-Polyester Tape-Aluminum Foil | 100          |
| 2       |                         | Braid | TC - Tinned Copper                         | 55           |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cable

Overall Nominal Diameter: 0.193 in.

### Mechanical Characteristics (Overall)

|                              |                          |
|------------------------------|--------------------------|
| Operating Temperature Range: | -40°C To +80°C           |
| UL Temperature Rating:       | 80°C (UL AWM Style 1354) |
| Bulk Cable Weight:           | 21 lbs/1000 ft.          |
| Min. Bend Radius/Minor Axis: | 2 in.                    |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/UL) Specification:                | CM                        |
| CEC/C(UL) Specification:              | CM                        |
| AWM Specification:                    | UL Style 1354 (30 V 80°C) |
| EU Directive 2011/65/EU (ROHS II):    | Yes                       |
| EU CE Mark:                           | No                        |
| EU Directive 2000/53/EC (ELV):        | Yes                       |
| EU Directive 2002/95/EC (RoHS):       | Yes                       |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004                |
| EU Directive 2002/96/EC (WEEE):       | Yes                       |
| EU Directive 2003/11/EC (BFR):        | Yes                       |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                       |
| MII Order #39 (China RoHS):           | Yes                       |
| RG Type:                              | 58A/U                     |

**Flame Test**

UL Flame Test: UL1685 UL Loading

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

52

**Nom. Inductance:**

Inductance (µH/ft)

0.065

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)

26.0

**Nominal Velocity of Propagation:**

VP (%)

75

**Nominal Delay:**

Delay (ns/ft)

1.36

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

8.8

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

17

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | 0.5                      |
| 10          | 1.5                      |
| 50          | 2.9                      |
| 100         | 4.0                      |
| 200         | 5.7                      |
| 400         | 8.5                      |
| 700         | 12.2                     |
| 900         | 14.5                     |
| 1000        | 15.8                     |

**Max. Operating Voltage - UL:**

Voltage

300 V RMS (CM)

30 V RMS (UL AWM Style 1354)

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc          |
|---------------|----------|-------------|-------|-------|--------------------|
| 9311 010U1000 | 1,000 FT | 23.000 LB   | BLACK |       | RG-58A/U TYPE COAX |
| 9311 010I1000 | 1,000 FT | 23.000 LB   | BLACK | C     | RG-58A/U TYPE COAX |
| 9311 010S500  | 500 FT   | 12.500 LB   | BLACK | C     | RG-58A/U TYPE COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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