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1-800-Belden1



## General Description:

RG-58A/U type, 20 AWG stranded (19x33) .035" tinned copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1      | 20  | 19x33     | TC - Tinned Copper | 0.889     |

Total Number of Conductors: 1

### Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PE - Polyethylene   | 2.9464    |

### Outer Shield

Outer Shield Material:

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper    | 95           |

### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.6985                   |

### Overall Cable

Overall Nominal Diameter: 4.902 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 37.205 Kg/Km

Max. Recommended Pulling Tension: 186.824 N

Min. Bend Radius/Minor Axis: 50.800 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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

Applicable Patents:

| Country          |
|------------------|
| www.belden.com/p |

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

**Impedance (Ohm)**  
50

**Nom. Inductance:**

**Inductance (µH/m)**  
0.301852

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/m)**  
101.055

**Nominal Velocity of Propagation:**

**VP (%)**  
66

**Nominal Delay:**

**Delay (ns/m)**  
5.05274

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/km)**  
35.4348

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/km)**  
13.4521

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1           | 1.3124                |
| 10          | 4.9215                |
| 50          | 12.1397               |
| 100         | 17.7174               |
| 200         | 26.5761               |
| 400         | 40.6844               |
| 700         | 58.0737               |
| 900         | 69.2291               |
| 1000        | 74.8068               |

**Max. Operating Voltage - Non-UL:**

**Voltage**  
1400 V RMS

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc             |
|---------------|----------|-------------|-------|-------|-----------------------|
| 8259 010U1000 | 1,000 FT | 26.000 LB   | BLACK |       | RG-58A/U 50 OHMS COAX |
| 8259 010U500  | 500 FT   | 14.000 LB   | BLACK |       | RG-58A/U 50 OHMS COAX |
| 8259 010100   | 100 FT   | 3.300 LB    | BLACK |       | RG-58A/U 50 OHMS COAX |
| 8259 0101000  | 1,000 FT | 27.000 LB   | BLACK | C     | RG-58A/U 50 OHMS COAX |
| 8259 010500   | 500 FT   | 14.000 LB   | BLACK | C     | RG-58A/U 50 OHMS COAX |
| 8259 0105000  | 5,000 FT | 135.000 LB  | BLACK | C     | RG-58A/U 50 OHMS COAX |

**Notes:**  
C = CRATE REEL PUT-UP.

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