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1-800-Belden1



## 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     |

### 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 Cabling

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: 35.717 Kg/Km

Max. Recommended Pulling Tension: 186.824 N

Min. Bend Radius (Install)/Minor Axis: 50.800 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes - when supported by a messenger wire

### 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

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #        | Putup  | Ship Weight | Color | Notes | Item Desc             |
|---------------|--------|-------------|-------|-------|-----------------------|
| 8259 010U1000 | 305 MT | 11.793 KG   | BLACK |       | RG-58A/U 50 OHMS COAX |
| 8259 010U500  | 152 MT | 6.350 KG    | BLACK |       | RG-58A/U 50 OHMS COAX |

## METRIC MEASUREMENT VERSION

### 8259 Coax - RG-58A/U Type

|              |        |           |       |   |                       |
|--------------|--------|-----------|-------|---|-----------------------|
| 8259 010100  | 30 MT  | 1.497 KG  | BLACK |   | RG-58A/U 50 OHMS COAX |
| 8259 0101000 | 305 MT | 11.340 KG | BLACK | C | RG-58A/U 50 OHMS COAX |
| 8259 010500  | 152 MT | 5.670 KG  | BLACK | C | RG-58A/U 50 OHMS COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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