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1-800-Belden1



## Description:

20 AWG stranded (19x33) .035" tinned copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), non-contaminating 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                        |
|--|
| PVCNC - Polyvinyl Chloride Non-Contaminating |

### Overall Cabling

Overall Nominal Diameter: 4.953 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +85°C

UL Temperature Rating: 85°C

Bulk Cable Weight: 37.205 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): 10/01/2005

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

Military Specification: MIL-C-17G, M17/28

RG Type: 58/U

**Plenum/Non-Plenum**

Plenum (Y/N): No

## Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
50

**Nom. Inductance:**

Inductance (µH/m)  
0.252637

**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          | 4.5934                |
| 50          | 10.8273               |
| 100         | 16.0769               |
| 200         | 23.9513               |
| 400         | 37.7315               |
| 700         | 55.777                |
| 900         | 65.62                 |
| 1000        | 70.5415               |

**Max. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 50          | 13.124                |
| 100         | 21.3265               |
| 400         | 55.777                |
| 1000        | 91.868                |

**Max. Power Rating:**

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50          | 300        |
| 100         | 200        |
| 400         | 90         |
| 1000        | 55         |

**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         |
|--------------|--------|-------------|-------|-------|-------------------|
| 9203 0101000 | 305 MT | 11.340 KG   | BLACK |       | M17/28-RG058 COAX |
| 9203 010500  | 152 MT | 5.670 KG    | BLACK | C     | M17/28-RG058 COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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