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please call

1-800-Belden1



General Description:

RG-58 type, 17 AWG solid .044" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® (100% coverage) + tinned copper braid shield (95% coverage), polyethylene jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 17 | Solid | BC - Bare Copper | 1.1176 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 2.9464 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 95 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|-----------------------|
| PE - Polyethylene |

Overall Cable

Overall Nominal Diameter: 4.953 mm

Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 40.181 Kg/Km

Max. Recommended Pulling Tension: 112.984 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

MIL Order #39 (China RoHS): Yes

RG Type: 58/U

Series Type: RF 200

Suitability

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/m)
0.200141

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
77.1035

Nominal Velocity of Propagation:

VP (%)
85

Nominal Delay:

Delay (ns/m)
3.90439

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
10.8273

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
13.7802

Maximum VSWR:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Max. VSWR |
|-------------|-------------|-------------------|------------------|-----------|
| | | 5 | 6000 | 1.25:1 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 5.000 | 2.461 |
| 10.000 | 3.609 |
| 30.000 | 5.250 |
| 50.000 | 6.890 |
| 150.000 | 12.140 |
| 220.000 | 14.765 |
| 450.000 | 21.327 |
| 900.000 | 30.185 |
| 1500.000 | 39.372 |
| 1800.000 | 43.309 |
| 2000.000 | 45.934 |
| 2500.000 | 51.512 |
| 3000.000 | 57.418 |
| 4500.000 | 72.182 |
| 5800.000 | 82.681 |
| 6000.000 | 85.306 |

Max. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 30 | 1070 |
| 50 | 813 |
| 150 | 450 |
| 220 | 372 |
| 450 | 256 |
| 900 | 178 |
| 1500 | 136 |
| 1800 | 123 |
| 2000 | 117 |
| 2500 | 104 |
| 3000 | 94 |
| 3500 | 87 |
| 4500 | 76 |
| 5800 | 67 |
| 6000 | 66 |

Max. Operating Voltage - Non-UL:

Voltage

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

7807A Coax - RG-58 Type

300 V RMS

Sweep Test

Sweep Testing: 100% Sweep tested to 6 GHz

Notes (Overall)

Notes: Belden® The Wire in Wireless®

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|-------------------------------|
| 7807A 0101000 | 1,000 FT | 26.000 LB | BLACK | C | RF200 WIRELESS 50 OHM COAX PO |
| 7807A 010500 | 500 FT | 15.000 LB | BLACK | C | RF200 WIRELESS 50 OHM COAX PO |

Notes:

C = CRATE REEL PUT-UP.

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