

7807A Coax - RG-58 Type

For more Information
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. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 17 | Solid | BC - Bare Copper | .044 |

Total Number of Conductors: 1

Insulation**Insulation Material:**

| Insulation Material | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | .116 |

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: 0.195 in.

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|-----------------|
| Operating Temperature Range: | -40°C To +75°C |
| Non-UL Temperature Rating: | 80°C |
| Bulk Cable Weight: | 27 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 25.400 lbs. |
| Min. Bend Radius/Minor Axis: | 2 in. |

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: | 58/U |
| Series Type: | RF 200 |

Suitability

| | |
|------------------------|-------------------------------------|
| Suitability - Outdoor: | Yes |
| Suitability - Aerial: | Yes - When supported by a messenger |
| Suitability - Burial: | Yes |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

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

Impedance (Ohm)

50

Nom. Inductance:

Inductance (μH/ft)

.061

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

23.5

Nominal Velocity of Propagation:

VP (%)

85

Nominal Delay:

Delay (ns/ft)

1.19

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.3

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.2

Maximum VSWR:

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

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 5.000 | 0.750 |
| 10.000 | 1.100 |
| 30.000 | 1.600 |
| 50.000 | 2.100 |
| 150.000 | 3.700 |
| 220.000 | 4.500 |
| 450.000 | 6.500 |
| 900.000 | 9.200 |
| 1500.000 | 12.000 |
| 1800.000 | 13.200 |
| 2000.000 | 14.000 |
| 2500.000 | 15.700 |
| 3000.000 | 17.500 |

| | |
|----------|--------|
| 4500.000 | 22.000 |
| 5800.000 | 25.200 |
| 6000.000 | 26.000 |

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 |
|-----------|
| 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 PE |
| 7807A 010500 | 500 FT | 15.000 LB | BLACK | C | RF200 WIRELESS 50 OHM COAX PE |

Notes:

C = CRATE REEL PUT-UP.

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