

METRIC MEASUREMENT VERSION



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. (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
MII Order #39 (China RoHS):	Yes
RG Type:	58/U
Series Type:	RF 200

**Suitability**  
**Plenum/Non-Plenum**

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

<b>Impedance (Ohm)</b>
50

**Nom. Inductance:**

<b>Inductance (µH/m)</b>
0.200141

**Nom. Capacitance Conductor to Shield:**

<b>Capacitance (pF/m)</b>
77.1035

**Nominal Velocity of Propagation:**

<b>VP (%)</b>
85

**Nominal Delay:**

<b>Delay (ns/m)</b>
3.90439

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
10.8273

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
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
300 V RMS

**Sweep Test**

**Sweep Testing:** 100&#37; 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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