

7807A Coax - RG-58 Type

For more Information
please call

1-800-Belden1

**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

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 Cabling

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:	38.693 Kg/Km
Max. Recommended Pulling Tension:	112.984 N
Min. Bend Radius (Install)/Minor Axis:	48.260 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:	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
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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)
30	5.2496
50	6.8901
150	12.1397
220	14.7645
450	21.3265
900	30.1852
1500	39.372
1800	43.3092
2000	45.934
2500	51.5117
3000	57.4175
4500	72.182
5800	82.6812
6000	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% Sweep tested to 6 GHz

Notes (Overall)

Notes: Belden® The Wire in Wireless®

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7807A 0101000	305 MT	10.886 KG	BLACK	C	RF200 WIRELESS 50 OHM COAX PE
7807A 010500	152 MT	6.804 KG	BLACK	C	RF200 WIRELESS 50 OHM COAX PE

Notes:

C = CRATE REEL PUT-UP.

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