

# Detailed Specifications & Technical Data



ENGLISH 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. (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

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/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**

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7807A Coax - RG-58 Type

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

### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 07-19-2013

© 2015 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.