# **Detailed Specifications & Technical Data**

**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.

1

## **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Coax	AWG	Stranding	<b>Conductor Material</b>	Dia. (mm)
1	17	Solid	BC - Bare Copper	1.1176

Total Number of Conductors:

#### Insulation

#### **Insulation Material:**

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

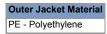
#### **Outer Shield**

#### **Outer Shield Material:**

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

### **Outer Jacket**

#### **Outer Jacket Material:**



## **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

Page 1 of 3 01-30-2019

# **Detailed Specifications & Technical Data**

## **METRIC MEASUREMENT VERSION**



7807A Coax - RG-58 Type

	Plenum (Y/N):	No	
Ple	num/Non-Plenum		
	itability		
	Series Type:	RF 200	
	RG Type:	58/U	
	MII Order #39 (China RoHS):	Yes	
	CA Prop 65 (CJ for Wire & Cable):	Yes	
	EU Directive 2003/11/EC (BFR):	Yes	

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



Nominal Delay:



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:

De	scription	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:

Page 2 of 3 01-30-2019

# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



7807A Coax - RG-58 Type

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:

300 V RMS

**Sweep Test** 

100% Sweep tested to 6 GHz Sweep Testing:

#### **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	С	RF200 WIRELESS 50 OHM COAX PO
7807A 010500	500 FT	15.000 LB	BLACK	С	RF200 WIRELESS 50 OHM COAX PO

Notes:

C = CRATE REEL PUT-UP.

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

© 2019 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.