



Part Number: 7807A

RF 200 Wireless Coax, RG58, 17 AWG Solid BC, Foil + TC Braid, Polyethylene Jacket

Product Description

RF 200 Wireless Coax, RG-58/U type, 17 AWG solid .044" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® (100% coverage); tinned copper braid shield (95% coverage), polyethylene jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)
----------------------	------------------------------

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
17	Solid	BC - Bare Copper	0.044 in	1

Conductor Count:	1
Conductor Size:	17 AWG

Insulation

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.116 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

Outer Jacket Material

Material	Nominal Diameter
PE - Polyethylene	0.195 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
3.3 Ohm/1000ft	4.2 Ohm/1000ft	4.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
23.5 pF/ft

Inductance

Nominal Inductance
0.061 µH/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.75 dB/100ft
10 MHz	1.1 dB/100ft
30 MHz	1.6 dB/100ft
50 MHz	2.1 dB/100ft
150 MHz	3.7 dB/100ft
220 MHz	4.5 dB/100ft
450 MHz	6.5 dB/100ft
900 MHz	9.2 dB/100ft
1500 MHz	12 dB/100ft
1800 MHz	13.2 dB/100ft
2000 MHz	14 dB/100ft
2500 MHz	15.7 dB/100ft
3000 MHz	17.5 dB/100ft
4500 MHz	22 dB/100ft
5800 MHz	25.2 dB/100ft
6000 MHz	26 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.19 ns/ft	85 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
30 MHz	2 dB/100ft
50 MHz	2.4 dB/100ft
150 MHz	3.9 dB/100ft
220 MHz	4.6 dB/100ft
450 MHz	6.7 dB/100ft
900 MHz	9.5 dB/100ft
1500 MHz	12.3 dB/100ft
1800 MHz	13.5 dB/100ft
2000 MHz	14.4 dB/100ft
2500 MHz	16.2 dB/100ft
3000 MHz	18 dB/100ft
3500 MHz	19.6 dB/100ft
4500 MHz	22.9 dB/100ft
5800 MHz	26.3 dB/100ft
6000 MHz	26.8 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]
30 MHz	1,070 W
50 MHz	813 W
150 MHz	450 W
220 MHz	372 W
450 MHz	256 W
900 MHz	178 W
1,500 MHz	136 W
2,000 MHz	117 W
2,500 MHz	104 W
3,500 MHz	87 W
4,500 MHz	76 W
6,000 MHz	66 W
4,500 MHz	76 W
5,800 MHz	67 W
6,000 MHz	66 W

Voltage

Non-UL Voltage Rating

300 V RMS

VSWR

Frequency [MHz]

5-6000 MHz

Temperature Range

Non-UL Temp Rating:	80°C
Operating Temp Range:	-40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	27 lbs/1000ft
Max Recommended Pulling Tension:	25.4 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

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

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	UPC	Length	Footnote
7807A 0101000	Black	612825189633	1,000 ft	C
7807A 010500	Black	612825189640	500 ft	C

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

History

Update and Revision:	Revision Number: 0.251 Revision Date: 07-11-2019
----------------------	--

© 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.