

Part Number: 7806A

RF 195 Wireless Coax, RG58, 19 AWG



Product Description

RG-58 type, 19 AWG solid .037" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® (100% coverage); tinned copper braid shield (90% 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
19	Solid	BC - Bare Copper	0.037 in	1

Conductor Count:	1
Conductor Size:	19 AWG

Insulation

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.11 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		90 %

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
7.6 Ohm/1000ft	4.2 Ohm/1000ft	4.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
24.3 pF/ft

Inductance

Nominal Inductance
0.064 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 dB/100ft
30 MHz	2 dB/100ft
50 MHz	2.5 dB/100ft
150 MHz	4 dB/100ft
220 MHz	4.9 dB/100ft
450 MHz	7.1 dB/100ft
900 MHz	10.3 dB/100ft
1500 MHz	13.7 dB/100ft
1800 MHz	15.2 dB/100ft
2000 MHz	16.1 dB/100ft
2500 MHz	18.3 dB/100ft
3000 MHz	20.5 dB/100ft
4500 MHz	26.5 dB/100ft
5800 MHz	31.2 dB/100ft
6000 MHz	32 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.32 ns/ft	77 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
30 MHz	2.6 dB/100ft
50 MHz	3 dB/100ft
150 MHz	4.3 dB/100ft
220 MHz	5.3 dB/100ft
450 MHz	7.6 dB/100ft
900 MHz	11 dB/100ft
1500 MHz	14.5 dB/100ft
1800 MHz	16.1 dB/100ft
2000 MHz	17.1 dB/100ft
2500 MHz	19.5 dB/100ft
3000 MHz	21.8 dB/100ft
3500 MHz	24 dB/100ft
4500 MHz	27.9 dB/100ft
5800 MHz	33 dB/100ft
6000 MHz	33.7 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]
30 MHz	890 W
50 MHz	694 W
150 MHz	403 W
220 MHz	336 W
450 MHz	231 W
900 MHz	162 W
1,500 MHz	124 W
2,000 MHz	107 W
2,500 MHz	95 W
3,500 MHz	80 W
4,500 MHz	70 W
6,000 MHz	61 W
4,500 MHz	70 W
5,800 MHz	62 W
6,000 MHz	61 W

Voltage

Non-UL Voltage Rating

300 V RMS

VSWR

Frequency [MHz]	Max. VSWR
5-6000 MHz	1.25:1
5 MHz	
6000 MHz	

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	23 lbs/1000ft
Max Recommended Pulling Tension:	40 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

RG Type:	58/U Type
Series Type:	RF 195

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

Suitability

Suitability - Indoor:	Yes
-----------------------	-----

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	UPC	Length	Footnote
7806A 0101000	Black	612825189596	1,000 ft	C
7806A 010500	Black	612825189602	500 ft	C

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

© 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.