



**Product:** [7806A](#)

50 Ohm Wireless Transmission Coax, RF 195, RG58, 19 AWG Solid BC, Foil + 90% TC Braid, PE Jkt

### Product Description

50 Ohm Wireless Transmission Coax, RF 195, RG58, 19 AWG Solid Bare Copper Conductor, PE Insulation, Duofoil® + 90% Tinned Copper Braid Shield, PE Jacket

### Technical Specifications

#### Product Overview

Suitable Applications:	Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)
------------------------	--

#### Construction Details

RG Type:	58
----------	----

#### Conductor

Size	Stranding	Nom. Diameter	Material
19 AWG	Solid	0.037 in	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.110 in (2.79 mm)

#### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		90%

#### Outer Jacket

Material	Nom. Diameter
PE - Polyethylene	0.195 in (4.95 mm)

Overall Cable Diameter (Nominal):	0.195 in (4.95 mm)
-----------------------------------	--------------------

#### Electrical Characteristics

#### VSWR

Frequency	Max. VSWR
5 - 6000 MHz	1.25:1

#### Attenuation

Frequency	Nom. Attenuation
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

#### Power Rating

Frequency	Max. Power Rating
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

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
7.6 Ohm/1000ft (25 Ohm/km)	4.2 Ohm/1000ft (14 Ohm/km)	24.3 pF/ft (79.7 pF/m)	50 Ohm	77%

#### Voltage

Voltage Rating
300 V

### Mechanical Characteristics

#### Temperature

Operating
-30°C to +75°C

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	23 lbs/1000ft

### Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

### History

Update and Revision:	Revision Number: 0.354 Revision Date: 11-09-2022
----------------------	--

### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC
7806A 010500	Black	Reel	500 ft	612825189602
7806A 0101000	Black	Reel	1,000 ft	612825189596

© 2022 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.