



Product: <u>7806A</u> ☑

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	Color Code
PE - Polyethylene (Foam)	0.110 in (2.79 mm)	White

# Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Таре	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 Diame (Nominal):	eter 0.195

# **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	1.8 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	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



# Bend Radius



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: 0.511 Revision Date: 04-29-2024

#### **Part Numbers**

## Variants

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

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