# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



7806A Coax - RG-58 Type

For more Information please call

1-800-Belden1



# **General 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.

## **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Coax	AWG	Stranding	<b>Conductor Material</b>	Dia. (mm)
1	19	Solid	BC - Bare Copper	0.9398

Total Number of Conductors: 1

#### Insulation

#### **Insulation Material:**

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	2.794

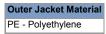
#### **Outer Shield**

### **Outer Shield Material:**

Layer # Outer Shield Trade Name		Type	Outer Shield Material	Coverage (%)
1 Duofoil®		Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	90

## **Outer Jacket**

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



## **Overall Cable**

Overall Nominal Diameter: 4.953 mm

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +80°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	34.229 Kg/Km
Max. Recommended Pulling Tension:	177.928 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

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	Plenum (Y/N):	No	
	Dianum (V/N)	No	
Ple	enum/Non-Plenum		
	itability		
	Series Type:	RF 195	
	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)
24.9356

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km
13.7802

Maximum VSWR:

Description	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	3.281
30.000	6.562
50.000	8.203
150.000	13.124
220.000	16.077
450.000	23.295
900.000	33.794
1500.000	44.950
1800.000	49.871
2000.000	52.824
2500.000	60.042
3000.000	67.261
4500.000	86.947
5800.000	102.367
6000.000	104.992

Max. Power Rating:

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#### METRIC MEASUREMENT VERSION



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Freq. (MHz)	Rating (W)
30	890
50	694
150	403
220	336
450	231
900	162
1500	124
1800	113
2000	107
2500	95
3000	87
3500	80
4500	70
5800	62
6000	61

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
7806A 0101000	305 MT	11.340 KG	BLACK	С	RF195 WIRELESS 50 OHM COAX PE
7806A 010500	152 MT	6.577 KG	BLACK	С	RF195 WIRELESS 50 OHM COAX PE

Notes:

C = CRATE REEL PUT-UP.

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