

# 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	Conductor Material	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:

Outer Jacket Material
PE - Polyethylene

### 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

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

RG Type: 58/U

Series Type: RF 195

### Suitability

Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

**Impedance (Ohm)**  
50

Nom. Inductance:

**Inductance (µH/m)**  
0.209984

Nom. Capacitance Conductor to Shield:

**Capacitance (pF/m)**  
79.7283

Nominal Velocity of Propagation:

**VP (%)**  
77

Nominal Delay:

**Delay (ns/m)**  
4.331

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:

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:

**Voltage**

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300 V RMS

## Sweep Test

Sweep Testing: 100&#37; Sweep tested to 6 GHz

## Notes (Overall)

Notes: Belden® The Wire in Wireless®

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7806A 0101000	1,000 FT	25.000 LB	BLACK	C	RF195 WIRELESS 50 OHM COAX PO
7806A 010500	500 FT	14.500 LB	BLACK	C	RF195 WIRELESS 50 OHM COAX PO

### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 6 Revision Date: 07-19-2013

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