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1-800-Belden1



## 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

### 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 Cabling

Overall Nominal Diameter: 4.953 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 32.740 Kg/Km

Max. Recommended Pulling Tension: 177.928 N

Min. Bend Radius (Install)/Minor Axis: 48.260 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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

MII Order #39 (China RoHS):	Yes
RG Type:	58/U
Series Type:	RF 195

### Suitability

Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes - When supported by a messenger
Suitability - Burial:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## 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)

4.16687

### 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)
30	6.562
50	8.2025
150	13.124
220	16.0769
450	23.2951
900	33.7943
1500	44.9497
1800	49.8712
2000	52.8241
2500	60.0423
3000	67.2605
4500	86.9465
5800	102.367
6000	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:**

<b>Voltage</b>
300 V RMS

**Sweep Test**

**Sweep Testing:** 100% Sweep tested to 6 GHz

**Notes (Overall)**

**Notes:** Belden® The Wire in Wireless®

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7806A 0101000	305 MT	10.433 KG	BLACK	C	RF195 WIRELESS 50 OHM COAX PE
7806A 010500	152 MT	6.577 KG	BLACK	C	RF195 WIRELESS 50 OHM COAX PE

**Notes:**  
C = CRATE REEL PUT-UP.

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