



## 7806R

Part Number: 7806R

RG-58 Type

## Product Description

RG-58 type, 19 AWG solid .037" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® (100% coverage) &#43; tinned copper braid shield (90% coverage), PVC jacket.

## Product Specifications

### Conductor

Total Number of Conductors:

1

## Technical Specifications

### APAC Standard

Mil Order #39 (China RoHS):

Yes

### Bend Radius

Min Bend Radius/Minor Axis:

1.75 in

### CCB-Part Number

Notes:

100% Sweep tested. 6 GHz. Belden® The Wire in Wireless®

### CCB-Sub-Part Number

Plenum (Y/N):

No

### Connectors

Suggested Connectors:

Mates with standard RG-58 connectors

## Contact Information

PHONE_NUM:	1-800-Belden1
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## EMEA Standard

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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## Environmental Characteristics

Operating Temp Range:	-40°C To +75°C
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Suitability - Indoor:	Yes
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## EU Directive

EU CE Mark:	Yes
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EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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## North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
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CEC/C(UL) Specification:	CMG
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NEC/(UL) Specification:	CMR
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RG Type:	58/U
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Series Type:	RF 195
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## Safety

UL Flammability:	UL1666 Vertical Shaft
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CSA Flammability:	FT4
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## Temperature Range

UL Temp Rating:	60°C
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## Use

Max Recommended Pulling Tension:	40 lbs
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Impedance:

Nominal Characteristic Impedance

50 Ohm
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**Inductance:**

Nominal Inductance
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0.064 $\mu$ H/ft
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**Conductor DCR:**

Nominal Conductor DCR	Nominal Outer Shield DCR
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7.6 Ohm/1000ft	4.2 Ohm/1000ft
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**Power Rating:**

Frequency [MHz]	Max. Power Rating [W]
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30 MHz	890 W
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50 MHz	694 W
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150 MHz	403 W
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220 MHz	336 W
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450 MHz	231 W
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900 MHz	162 W
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1,500 MHz	124 W
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1,800 MHz	113 W
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2,000 MHz	107 W
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2,500 MHz	95 W
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3,000 MHz	87 W
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3,500 MHz	80 W
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4,500 MHz	70 W
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5,800 MHz	62 W
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6,000 MHz	61 W
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**Delay:**

Nominal Delay	Nominal Velocity of Propagation (VP)
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1.32 ns/ft	77 %
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**Voltage:**

**UL Voltage Rating**

300V RMS

**VSWR:**

Frequency [MHz]	Max. VSWR
	1.25:1
5 MHz	
6000 MHz	

**Capacitance:****Nominal Capacitance Conductor to Shield**

24.3 pF/ft

**High Frequency (Nominal/Typical):**

Frequency (MHz)	Nom. Insertion Loss
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

## Insulation:

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.11 in

## Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.195 in

## Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
19	Solid	BC - Bare Copper	0.037 in	1

## Outershield 1:

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

## Product Variants

Part Number	Color	Put-Up Type	Length
7806R 0101000	BLACK	Reel	1000 ft
7806R 010500	BLACK	Reel	500 ft

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