



## 7807R

Part Number: 7807R

RG-58 Type

### Product Description

RG-58 type, 17 AWG solid .044" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® (100% coverage) &#43; tinned copper braid shield (95% 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:

2 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 Land Mobile Radio type 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 200
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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:	25.4 lbs
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Impedance:

Nominal Characteristic Impedance

50 Ohm
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**Inductance:**

Nominal Inductance
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0.061 $\mu$ H/ft
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**Conductor DCR:**

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

Frequency [MHz]	Max. Power Rating [W]
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30 MHz	1,070 W
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50 MHz	813 W
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150 MHz	450 W
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220 MHz	372 W
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450 MHz	256 W
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900 MHz	178 W
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1,500 MHz	136 W
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1,800 MHz	123 W
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2,000 MHz	117 W
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2,500 MHz	104 W
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3,000 MHz	94 W
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3,500 MHz	87 W
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4,500 MHz	76 W
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5,800 MHz	67 W
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6,000 MHz	66 W
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**Delay:**

Nominal Delay	Nominal Velocity of Propagation (VP)
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1.19 ns/ft	85 %
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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**

23.5 pF/ft

**High Frequency (Nominal/Typical):****Frequency (MHz)****Nom. Insertion Loss**

5 MHz

0.75 db/100ft

10 MHz

1.1 db/100ft

30 MHz

1.6 db/100ft

50 MHz

2.1 db/100ft

150 MHz

3.7 db/100ft

220 MHz

4.5 db/100ft

450 MHz

6.5 db/100ft

900 MHz

9.2 db/100ft

1500 MHz

12 db/100ft

1800 MHz

13.2 db/100ft

2000 MHz

14 db/100ft

2500 MHz

15.7 db/100ft

3000 MHz

17.5 db/100ft

4500 MHz

22 db/100ft

5800 MHz

25.2 db/100ft

6000 MHz

26 db/100ft

## Insulation:

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.116 in

## Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.195 in

## Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
17	Solid	BC - Bare Copper	0.044 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		95 %

## Product Variants

Part Number	Color	Put-Up Type	Length
7807R 0101000	BLACK	Reel	1000 ft
7807R 010500	BLACK	Reel	500 ft

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