



## 7808R

Part Number: 7808R

RG-8X Type

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### Product Description

RG-8X type, 15 AWG solid .057" bare copper conductor, gas-injected foam HDPE insulation, Duobond® II & #43; tinned copper braid shield (95% coverage), PVC jacket.

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### Product Specifications

#### Conductor

Total Number of Conductors:	1
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### Technical Specifications

#### APAC Standard

Mil Order #39 (China RoHS):	Yes
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#### Bend Radius

Min Bend Radius/Minor Axis:	2.5 in
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#### CCB-Part Number

Notes:	Belden® The Wire in Wireless®
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#### CCB-Sub-Part Number

Plenum (Y/N):	No
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#### Connectors

Suggested Connectors:	Mates with standard RG-8X connectors.
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### 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
Suitability - Indoor:	Yes

## EU Directive

EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01

## General Electrical Parameters

Sweep Testing:	100% Sweep tested to 6 GHz.
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## North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMG
NEC/(UL) Specification:	CMR
RG Type:	8/X

## Safety

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4

## Temperature Range

UL Temp Rating:	60°C
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## Use

Max Recommended Pulling Tension:	74 lbs
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Impedance:

Nominal Characteristic Impedance

50 Ohm
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**Inductance:**

Nominal Inductance
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0.06 $\mu$ H/ft
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**Conductor DCR:**

Nominal Conductor DCR	Nominal Outer Shield DCR
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3.2 Ohm/1000ft	2.8 Ohm/1000ft
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**Power Rating:**

Frequency [MHz]	Max. Power Rating [W]
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30 MHz	1,526 W
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50 MHz	1,186 W
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150 MHz	673 W
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220 MHz	556 W
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450 MHz	382 W
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900 MHz	286 W
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1,500 MHz	205 W
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1,800 MHz	187 W
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2,000 MHz	177 W
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2,500 MHz	156 W
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3,000 MHz	143 W
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3,500 MHz	132 W
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4,500 MHz	116 W
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5,800 MHz	102 W
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6,000 MHz	100 W
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**Delay:**

Nominal Delay	Nominal Velocity of Propagation (VP)
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1.18 ns/ft	86 %
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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 pF/ft

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

Frequency (MHz)	Nom. Insertion Loss
5 MHz	0.58 db/100ft
10 MHz	0.77 db/100ft
30 MHz	1.3 db/100ft
50 MHz	1.6 db/100ft
150 MHz	2.8 db/100ft
220 MHz	3.4 db/100ft
450 MHz	4.9 db/100ft
900 MHz	7 db/100ft
1500 MHz	9.1 db/100ft
1800 MHz	10.1 db/100ft
2000 MHz	10.7 db/100ft
2500 MHz	12 db/100ft
3000 MHz	13.4 db/100ft
3500 MHz	14.6 db/100ft
4500 MHz	16.7 db/100ft
5800 MHz	19.5 db/100ft

6000 MHz	19.8 db/100ft
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### Insulation:

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.15 in

### Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.24 in

### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
15	Solid	BC - Bare Copper	0.057 in	1

### Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage
Tape	1	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	Bonded Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

## Product Variants

Part Number	Color	Put-Up Type	Length
7808R 0101000	BLACK	Reel	1000 ft
7808R 010500	BLACK	Reel	500 ft

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