



## 7808WB

Part Number: 7808WB

RG-8X Type

## 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), flooded water-resistant polyethylene 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:

2.5 in

### CCB-Part Number

Notes:

Belden® The Wire in Wireless®

### CCB-Sub-Part Number

Plenum (Y/N):

No

### Connectors

Suggested Connectors:

Mates with standard RG-8X 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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## EU Directive

EU CE Mark:	No
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EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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## 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
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RG Type:	8/X
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## Use

Suitability - Aerial:	Yes - When supported by a messenger
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Suitability - Burial:	Yes
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Suitability - Outdoor:	Yes
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Max Recommended Pulling Tension:	74 lbs
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## Impedance:

### Nominal Characteristic Impedance

50 Ohm
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## Inductance:

### Nominal Inductance

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]
30 MHz	1,526 W
50 MHz	1,186 W
150 MHz	673 W
220 MHz	556 W
450 MHz	382 W
900 MHz	286 W
1,500 MHz	205 W
1,800 MHz	187 W
2,000 MHz	177 W
2,500 MHz	156 W
3,000 MHz	143 W
3,500 MHz	100 W
4,500 MHz	116 W
5,800 MHz	102 W
6,000 MHz	100 W

**Delay:**

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

**Voltage:**

Non-UL Voltage Rating
300V RMS

**VSWR:**

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

6000 MHz	
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**Capacitance:**

<b>Nominal Capacitance Conductor to Shield</b>
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23 pF/ft
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**High Frequency (Nominal/Typical):**

<b>Frequency (MHz)</b>	<b>Nom. Insertion Loss</b>
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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

**Insulation:**

<b>Material</b>	<b>Nominal Diameter</b>
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Gas-injected FHDPE - Foam High Density Polyethylene	0.15 in
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**Outerjacket 1:**

<b>Material</b>	<b>Nominal Diameter</b>
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PE - Polyethylene	0.24 in
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**Conductor:**

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

**Outersheild 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
7808WB 0101000	BLACK	Reel	1000 ft
7808WB 010500	BLACK	Reel	500 ft

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