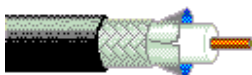


## 7808WB Coax - RG-8X Type

For more Information  
please call

1-800-Belden1

**General Description:**

RG-8X type, 15 AWG solid .057" bare copper conductor, gas-injected foam HDPE insulation, Duobond® II + tinned copper braid shield (95% coverage), flooded water-resistant polyethylene jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	15	Solid	BC - Bare Copper	.057

Total Number of Conductors: 1

**Insulation****Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.150

**Outer Shield****Outer Shield Material:**

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

Outer Shield Flooding Grease: PO - Polyolefin

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PE - Polyethylene

**Overall Cable**

Overall Nominal Diameter: 0.240 in.

**Mechanical Characteristics (Overall)**

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

Bulk Cable Weight: 36 lbs/1000 ft.

Max. Recommended Pulling Tension: 74 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

EU Directive 2011/65/EU (RoHS II): Yes

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
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	8/X
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**Suitability**

Suitability - Outdoor:	Yes
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Suitability - Aerial:	Yes - When supported by a messenger
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Suitability - Burial:	Yes
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
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50
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**Nom. Inductance:**

Inductance (μH/ft)
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.060
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**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
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23.0
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**Nominal Velocity of Propagation:**

VP (%)
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86
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**Nominal Delay:**

Delay (ns/ft)
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1.18
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**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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3.2
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**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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2.8
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**Maximum VSWR:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
		5	6000	1.25:1

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	0.580
10.000	0.770
30.000	1.300
50.000	1.600
150.000	2.800
220.000	3.400
450.000	4.900
900.000	7.000
1500.000	9.100
1800.000	10.100
2000.000	10.700
2500.000	12.000
3000.000	13.400
3500.000	14.600
4500.000	16.700

5800.000	19.500
6000.000	19.800

**Max. Power Rating:**

Freq. (MHz)	Rating (W)
30	1526
50	1186
150	673
220	556
450	382
900	286
1500	205
1800	187
2000	177
2500	156
3000	143
3500	100
4500	116
5800	102
6000	100

**Max. Operating Voltage - Non-UL:**

Voltage
300 V RMS

**Sweep Test**

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

**Misc. Information (Overall)****Notes (Overall)**

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

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7808WB 0101000	1,000 FT	39.000 LB	BLACK	C	RF240 WIRELESS 50 OHM COAX WB
7808WB 010500	500 FT	19.500 LB	BLACK	C	RF240 WIRELESS 50 OHM COAX WB

**Notes:**

C = CRATE REEL PUT-UP.

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