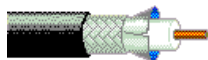


# Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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. (mm)
1	15	Solid	BC - Bare Copper	1.4478

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	3.81

### 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: 6.096 mm

## Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 53.575 Kg/Km

Max. Recommended Pulling Tension: 329.167 N

Min. Bend Radius/Minor Axis: 63.500 mm

## 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

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 8/X

### Suitability

Suitability - Outdoor: Yes

Suitability - Aerial: Yes - When supported by a messenger

Suitability - Burial: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

**Impedance (Ohm)**  
50

**Nom. Inductance:**

**Inductance (µH/m)**  
0.19686

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/m)**  
75.463

**Nominal Velocity of Propagation:**

**VP (%)**  
86

**Nominal Delay:**

**Delay (ns/m)**  
3.87158

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/km)**  
10.4992

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/km)**  
9.1868

**Maximum VSWR:**

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

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
5.000	1.903
10.000	2.526
30.000	4.265
50.000	5.250
150.000	9.187
220.000	11.155
450.000	16.077
900.000	22.967
1500.000	29.857
1800.000	33.138
2000.000	35.107
2500.000	39.372
3000.000	43.965
3500.000	47.903
4500.000	54.793
5800.000	63.980
6000.000	64.964

**Max. Power Rating:**

Freq. (MHz)	Rating (W)
30.000	1526.000
50.000	1186.000
150.000	673.000
220.000	556.000
450.000	382.000
900.000	268.000
1500.000	205.000
1800.000	187.000
2000.000	177.000
2500.000	156.000
3000.000	143.000
3500.000	100.000
4500.000	116.000

## METRIC MEASUREMENT VERSION

## 7808WB Coax - RG-8X Type

5800.000	102.000
6000.000	100.000

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

<b>Voltage</b>
300 V RMS

### Sweep Test

Sweep Testing: 100&#37; 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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