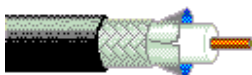


7808R Coax - RG-8X Type

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), PVC 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 Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.240 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	40 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**

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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
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EU Directive 2002/96/EC (WEEE):	Yes
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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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Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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CSA Flame Test:	FT4
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Suitability

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

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

Impedance (Ohm)

50

Nom. Inductance:

Inductance (μH/ft)

.060

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

23.0

Nominal Velocity of Propagation:

VP (%)

86

Nominal Delay:

Delay (ns/ft)

1.18

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.8

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	132
4500	116
5800	102
6000	100

Max. Operating Voltage - 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
7808R 0101000	1,000 FT	44.000 LB	BLACK	C	RF240 WIRELESS 50OHM COAXFRPVC
7808R 010500	500 FT	21.500 LB	BLACK	C	RF240 WIRELESS 50OHM COAXFRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 6 Revision Date: 08-21-2012

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7808R Coax - RG-8X Type

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