

## 7808A Coax - RG-8X Type



For more Information  
please call

1-800-Belden1



### Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

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

#### 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
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 (Install)/Minor Axis: 2.400 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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/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.)
30	1.3
50	1.6
150	2.8
220	3.4
450	4.9
900	7.0
1500	9.1
1800	10.1
2000	10.7
2500	12.0
3000	13.4
3500	14.6
4500	16.7
5800	19.5
6000	19.8

### 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:**

<b>Voltage</b>
300 V RMS

**Sweep Test**

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

**Misc. Information (Overall)**

**Notes (Overall)**

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

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

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

**Notes:**

C = CRATE REEL PUT-UP.

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