

**Part Number: 7808A**

Wireless Coax, RG58X, 15 AWG BC Coax



**Product Description**

RG-58X Type, RF240, 15 AWG solid .057" bare copper conductor, gas-injected foam HDPE insulation, Duobond® II foil shield + tinned copper braid shield (95% coverage), polyethylene jacket.

**Technical Specifications**

**Product Overview**

Environmental Space:	Indoor/Outdoor
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**Physical Characteristics (Overall)**

**Conductor**

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

Conductor Count:	1
Conductor Size:	15 AWG

**Insulation**

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.15 in

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape-Aluminum Foil (bonded to dielectric)	Bonded Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

**Outer Jacket Material**

Material	Nominal Diameter
PE - Polyethylene	0.24 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
3.2 Ohm/1000ft	2.8 Ohm/1000ft	2.8 Ohm/1000ft

**Capacitance**

Nom. Capacitance Conductor to Shield
23 pF/ft

**Inductance**

Nominal Inductance
0.06 µH/ft

**Impedance**

Nominal Characteristic Impedance
50 Ohm

**High Frequency (Nominal/Typical)**

Frequency [MHz]	Nom. Insertion Loss
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

**Delay**

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

**High Freq**

Frequency [MHz]	Max. Insertion Loss (Attenuation)
30 MHz	1.37 dB/100ft
50 MHz	1.8 dB/100ft
150 MHz	3.1 dB/100ft
220 MHz	3.7 dB/100ft
450 MHz	5.4 dB/100ft
900 MHz	7.8 dB/100ft
1500 MHz	10.2 dB/100ft
1800 MHz	11.2 dB/100ft
2000 MHz	11.9 dB/100ft
2500 MHz	13.4 dB/100ft
3000 MHz	14.7 dB/100ft
3500 MHz	15.9 dB/100ft
4500 MHz	18.2 dB/100ft
5800 MHz	20.8 dB/100ft
6000 MHz	21.2 dB/100ft

**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
2,000 MHz	177 W
2,500 MHz	156 W
3,500 MHz	100 W
4,500 MHz	116 W
6,000 MHz	100 W
4,500 MHz	116 W
5,800 MHz	102 W
6,000 MHz	100 W

**Voltage**

Non-UL Voltage Rating
300 V RMS

#### VSWR

Frequency [MHz]	Max. VSWR
5-6000 MHz	1.25:1

#### Temperature Range

Operating Temp Range:	-40°C To +75°C
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#### Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	35 lbs/1000ft
Max Recommended Pulling Tension:	69 lbs
Min Bend Radius/Minor Axis:	2.4 in

#### Standards

RG Type:	58/X Type
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#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Part Number

##### Variants

Item #	Color	Footnote
7808A 0101000	Black	C
7808A 010500	Black	C

Footnote:	C - CRATE REEL PUT-UP.
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