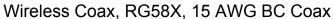


Product: 7808A ☑





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

Enviro	Environmental Space:			Ind	oor/Outdoor
Physi	Physical Characteristics (Overall)				
Conductor					
AWG	Stranding	Material	Nominal Diame	ter	No. of Coax
15	Solid	BC - Bare Copper	0.057 in		1
Condu	ictor Count:			1	
Insulat	Insulation				
		Material		N	ominal Diamet
Gas-in	jected FHDF	PE - Foam High Den	sity Polyethylene	0.	15 in

Outer Shield Material

Type	Layer	Material Material	Material Trade Name	Coverage [%]
Таре	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 %

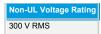
High Freq

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



VSWR

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

Temperature Range

Operating Temp Range:	-40°C To +75°C	
Operating remp reange.	-40 0 10 173 0	

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	

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	UPC	Length	Foo	tnote
7808A 0101000	Black	612825189671	1,000 ft	С	
7808A 010500	Black	612825189688	500 ft	С	
Footnote:					C - CF

History

Update and Revision:	Revision Number: 0.290 Revision Date: 08-22-2019	
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