

Product: <u>7808WB</u> ☑



50 Ohm Wireless Transmission Cable, RF 240, RG58, 15 AWG Solid BC, Foil + 95% TC Braid, PE Jkt, Waterblocked

Product Description

50 Ohm Wireless Transmission Cable, RF 240, RG58, 15 AWG Solid Bare Copper Conductor, PE Insulation, Duofoil® II + 95% Tinned Copper Braid Shield, Flooded, PE Jacket, Waterblocked

Technical Specifications

Product Overview

Suitable Applications:	Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)
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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
Condu	uctor Count:		1	

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.15 in
Table Notes:	Gas Inje

Outer Shield Material

Туре	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%
Table	Notes:	Tape is	bonded to dielectric, PO	- Polyolefin

Outer Jacket Material

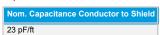
Material	Nominal Diameter
PE - Polyethylene	0.24 in

Electrical Characteristics

Conductor DCR

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

Capacitance



Inductance

Nominal Inductance

Impedance

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:

Mechanical Characteristics

Bulk Cable Weight:	35 lbs/1000ft
Max. Pull Tension:	69 lbs
Min Bend Radius/Minor Axis:	2.4 in

Standards

RG Type:	58/X Type		

Applicable Environmental and Other Programs

Environmental Chass.	Outdoor Water Function
Environmental Space:	Outdoor - Water Exposure
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/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 RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No	

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
7808WB 010500	Black	Reel	500 ft	612825189725
7808WB 0101000	Black	Reel	1,000 ft	612825189718
Footnote:		C	C - CRATE	E REEL PUT-UP.

History

Update and Revision:	Revision Number: 0.310 Revision Date: 09-30-2020

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