

Product: <u>7809WB</u> ☑



RF 300 Wireless Coax, 13 AWG, Waterblocked

Product Description

Intermediate type, RF300, 13 AWG solid .072" bare copper conductor, gas-injected foam HDPE insulation, Duobond® II, tinned copper braid shield (95% coverage), flooded, water-resistant polyethylene jacket.

Technical Specifications

Suitable Applications:			Wireless				
hys	ical C	haracteri	stics (O	/erall)			
ondu	ctor						
AWG		ding Ma	aterial	Nomina	l Diameter	No. of Coa	×
13	Solid	BC - B	are Copper	0.072 in		1	
Cond	uctor Co	unt:			1		
sulat	ion Mate	riol	Nominal D	liamatar	l		
PE - F		lene (Foam)	0.19 in	lameter			
Γable	Notes:				Gas Inje	cted	
uter	Shield						
Гуре	Layer		Material		Material T	rade Name	Coverage [%]
Гаре	1	Tri-Laminat	e (Alum+Pol	y+Alum)	Duofoil®		100%
Braid	2	Tinned Cop	per (TC)				95%
	Notes:				PO - Pol	volefin	

Material	Nominal Diameter
PE - Polyethylene	0.3 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
2.1 Ohm/1000ft	2.4 Ohm/1000ft	2.4 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield 23 pF/ft

Inductance

Nominal Inductance 0.06 µH/ft

Impedance

Nominal Characteristic Impedance

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.45 dB/100ft
10 MHz	0.6 dB/100ft
30 MHz	1 dB/100ft
50 MHz	1.3 dB/100ft
150 MHz	2.2 dB/100ft
220 MHz	2.7 dB/100ft
450 MHz	3.9 dB/100ft
900 MHz	5.6 dB/100ft
1500 MHz	7.3 dB/100ft
1800 MHz	8.1 dB/100ft
2000 MHz	8.6 dB/100ft
2500 MHz	9.7 dB/100ft
3000 MHz	10.8 dB/100ft
3500 MHz	11.8 dB/100ft
4500 MHz	13.5 dB/100ft
5800 MHz	15.8 dB/100ft
6000 MHz	16 dB/100ft

Delay

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

Power Rating

Frequency [MHz]	Max. Power Rating [W]	Nominal Power Rating [W]
30 MHz	2,161 W	2,161 W
50 MHz	1,658 W	1,658 W
150 MHz	928 W	928 W
220 MHz	758 W	758 W
450 MHz	522 W	522 W
900 MHz	367 W	367 W
1,500 MHz	278 W	278 W
1,800 MHz	253 W	253 W
2,000 MHz	239 W	239 W
3,000 MHz	194 W	212 W
4,500 MHz	157 W	194 W
6,000 MHz	135 W	179 W
4,500 MHz		157 W
5,800 MHz		137 W
6,000 MHz		135 W

Voltage

Non-UL Voltage Rating 300 V RMS

VSWR

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

Temperature Range

Operating Temp Range: -40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	53 lbs/1000ft
Max. Pull Tension:	102 lbs
Min. Bend Radius/Minor Axis:	3 in

Applicable Environmental and Other Programs

Environmental Space:	Water Exposure/Below-Grade Conduit	
Environmental opace.	Water Exposure/Below Grade Conduit	

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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	Put-Up Type	Length	UPC
7809WB 010500	Black	Reel	500 ft	612825189787
7809WB 0101000	Black	Reel	1,000 ft	612825189770
Footnote:				C - CRATE REEI

Product Notes

Notes:	Flooding grease between braid and jacket			

History

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