Product: 7807A ⧉

50 Ohm Wireless Transmission Coax, RF 200, RG58, 17 AWG Solid BC, Foil + 95% TC Braid, PE Jkt

Product Description

50 Ohm Wireless Transmission Coax, RF 200, RG58, 17 AWG Solid Bare Copper Conductor, PE Insulation, Duofoil® + 95% Tinned Copper Braid Shield, PE Jacket

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)

Construction Details

RG Type:	58

Conductor

AWG	Stranding	Nom. Diameter	Material
17	Solid	0.044 in	BC - Bare Copper

Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.116 in

Outer Shield Material

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	95%
2	Braid	Tinned Copper (TC)		95%

Outer Jacket Material

Material	Nom. Diameter
PE - Polyethylene	0.195 in

Electrical Characteristics

VSWR

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

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
5 MHz	0.75 dB/100ft
10 MHz	1.1 dB/100ft
30 MHz	1.6 dB/100ft
50 MHz	2.1 dB/100ft
150 MHz	3.7 dB/100ft
220 MHz	4.5 dB/100ft
450 MHz	6.5 dB/100ft
900 MHz	9.2 dB/100ft
1500 MHz	12 dB/100ft

1800 MHz	13.2 dB/100ft
2000 MHz	14 dB/100ft
2500 MHz	15.7 dB/100ft
3000 MHz	17.5 dB/100ft
4500 MHz	22 dB/100ft
5800 MHz	25.2 dB/100ft
6000 MHz	26 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]
30 MHz	1,070 W
50 MHz	813 W
150 MHz	450 W
220 MHz	372 W
450 MHz	256 W
900 MHz	178 W
1,500 MHz	136 W
2,000 MHz	117 W
2,500 MHz	104 W
3,500 MHz	87 W
4,500 MHz	76 W
6,000 MHz	66 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedence
5.4 Ohm/1000ft	3.6 Ohm/1000ft	23.5 pF/ft	50 Ohm

Voltage

Non-UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating
-30°C to +75°C

Bulk Cable Weight:	27 lbs/1000ft
Max. Pull Tension:	25.4 lbs

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor
Sustainability:	CA Prop 65
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.293 Revision Date: 08-25-2020

Mouser Electronics

Authorized Distributor

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