



**Product:** [7808A](#)

50 Ohm Wireless Transmission Coax, RF 240, RG58X, 15 AWG Solid BC, Foil + 95% TC Braid, PE Jkt

### Product Description

50 Ohm Wireless Transmission Coax, RF 240, RG58X, 15 AWG Solid Bare Copper Conductor, PE Insulation, Duofoil® II + 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)
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#### Construction Details

RG Type:	58X
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#### Conductor

Size	Stranding	Nom. Diameter	Material
15 AWG	Solid	0.057 in	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.150 in (3.81 mm)	White

#### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		95%

#### Outer Jacket

Material	Nom. Diameter
PE - Polyethylene	0.240 in (6.10 mm)

Overall Cable Diameter (Nominal):	0.240 in (6.10 mm)
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#### Electrical Characteristics

#### VSWR

Frequency	Max. VSWR
5-6000 MHz	1.25:1

#### Attenuation

Frequency	Nom. Attenuation
5 MHz	0.58 dB/100ft
10 MHz	0.77 dB/100ft
30 MHz	1.3 dB/100
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	7.0 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

#### Power Rating

Frequency	Max. Power Rating
30 MHz	1,526 W
50 MHz	1,186 W
150 MHz	673 W
220 MHz	556 W
450 MHz	382 W
900 MHz	268 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

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
3.2 Ohm/1000ft	2.8 Ohm/1000ft (9.2 Ohm/km)	23 pF/ft (75 pF/m)	50 Ohm	86%

#### Voltage

Voltage Rating
300 V

## Mechanical Characteristics

#### Temperature

Operating
-40°C to +80°C

#### Bend Radius

Installation Min.
0.75 in (19 mm)

Max. Pull Tension:	74 lbs (34 kg)
Bulk Cable Weight:	36 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Outdoor, Outdoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.533 Revision Date: 04-13-2023
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7808A 010500	Black	Reel	500 ft	612825189688	C
7808A 0101000	Black	Reel	1,000 ft	612825189671	C

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