



Product: [DA7808R](#)

DAS RF240 50 Ohm Coax, 15 AWG CMR

Product Description

Distributed Antenna System RF240, 50 Ohm 15 AWG solid bare copper conductor, foam polyethylene insulation, Duobond® + tinned copper braid shield (95% coverage), CMR PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	DAS Applications
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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

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.15 in

Table Notes:	Gas Injected
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Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.24 in

Electrical Characteristics

Conductor DCR

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

Capacitance

Nom. Capacitance Conductor to Shield
23.4 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	7.0 dB/100ft
1500 MHz	9.1 dB/100ft
1800 MHz	10.1 dB/100ft
2000 MHz	10.7 dB/100ft
2500 MHz	12.0 dB/100ft
3000 MHz	13.4 dB/100ft

Delay

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

Voltage

UL Voltage Rating
300 V RMS

VSWR

Frequency [MHz]	Max. VSWR
5-3000 MHz	1.25:1

Temperature Range

UL Temp Rating:	60°C
Operating Temp Range:	-40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	40 lbs/1000ft
Max. Pull Tension:	69 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Compliance:	CMR
RG Type:	58/X Type
Series Type:	RF 240

Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Aerial
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 CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
DA7808R 0101000	Black	Reel	1,000 ft	612825285434
DA7808R 0105000	Black	Reel	5,000 ft	612825285441

History

Update and Revision:	Revision Number: 0.88 Revision Date: 09-30-2020
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