



Product: [DAS100P](#)

DAS RG174 50 Ohm Coax, 25 AWG CMP

Product Description

Distributed Antenna System RG-174, 50 Ohm 25 AWG solid bare copper conductor, foam FEP insulation, Beldfoil® + tinned copper braid shield (90% coverage), CMP 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
25	Solid	BC - Bare Copper	0.0195 in	1

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.060 in

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%
Braid	2	Tinned Copper (TC)		90%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.117 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Outer Conductor DCR
27.5 Ohm/1000ft	7.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
26.2 pF/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.8 dB/100ft
5 MHz	1.5 dB/100ft
10 MHz	1.9 dB/100ft

50 MHz	4.4 dB/100ft
100 MHz	6.3 dB/100ft
200 MHz	9.0 dB/100ft
400 MHz	13.1 dB/100ft
700 MHz	17.9 dB/100ft
900 MHz	20.6 dB/100ft
1000 MHz	21.8 dB/100ft
1500 MHz	27.5 dB/100ft
2000 MHz	32.4 dB/100ft
2250 MHz	34.5 dB/100ft
3000 MHz	41.1 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.38 ns/ft	74%

Voltage

UL Voltage Rating
300 V RMS

VSWR

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

Temperature Range

Operating Temp Range:	-20 to +75°C
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Mechanical Characteristics

UV Resistance:	Yes - Black only
Bulk Cable Weight:	12 lbs/1000ft
Max. Pull Tension:	20 lbs
Min. Bend Radius/Minor Axis:	1.25 in

Standards

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
RG Type:	174

Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Aerial
EU Directive 2000/53/EC (ELV):	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)
EU CE Mark:	Yes

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:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
DAS100P 010500	Black	Reel	500 ft	612825285014
DAS100P 0101000	Black	Reel	1,000 ft	612825285007

History

Update and Revision:	Revision Number: 0.155 Revision Date: 12-15-2021
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