



Part Number: 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

Environmental Space:	Outdoor - Aerial
Suitable Applications:	DAS Applications

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
FPE - Foamed Polyethylene	0.060 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		90 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.117 in

Electrical Characteristics

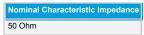
Conductor DCR

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



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	0.735 %

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 Recommended Pulling Tension:	20 lbs
Min Bend Radius/Minor Axis:	1.25 in

Standards

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

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	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

Part Number

Variants

Item #	Color
DAS100P 0101000	Black
DAS100P 010500	Black

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