



**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

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	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
-----------------------	--------------

#### 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, LSOH, 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

© 2018 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.