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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**Part Number:** DAS400P

DAS Coax. 50 Ohm, RG8, 10 AWG CMP

## Product Description

DAS Coax, RG-8/U type, 10 AWG solid .108" copper clad aluminum conductor, plenum, foam FEP insulation, Duofoil® + tinned copper braid shield (90% coverage), fluorocopolymer jacket.

## Technical Specifications

### Product Overview

Environmental Space:	Indoor - Plenum
Suitable Applications:	DAS, Distributed Antenna System

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
10	Solid	Copper Clad Aluminum	0.108	1

Conductor Size:	10 AWG
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#### Insulation

Material	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	0.285 mm

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Nominal Diameter
PVDF - Fluorocopolymer	0.354

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Outer Conductor DCR
1.4 Ohm/1000ft	2.0 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
23.0 pF/ft

Shielding:	Foil + Braid(s)
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#### Inductance

Nominal Inductance
0.060 µH/ft

#### Impedance

Nominal Characteristic Impedance
50 mOhm/ft

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.1 dB/100ft
5 MHz	0.3 dB/100ft
10 MHz	0.4 dB/100ft
50 MHz	0.9 dB/100ft
100 MHz	1.3 dB/100ft
200 MHz	1.9 dB/100ft
400 MHz	2.9 dB/100ft
700 MHz	4.0 dB/100ft
900 MHz	4.7 dB/100ft
1000 MHz	5.0 dB/100ft
1500 MHz	6.5 dB/100ft
2000 MHz	7.9 dB/100ft
2250 MHz	8.5 dB/100ft
3000 MHz	10.2 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 MHz - 3000 MHz	1.25:1

#### Temperature Range

UL Temp Rating:	150°C
Operating Temp Range:	-20°C To +150°C

#### Mechanical Characteristics

UV Resistance:	Yes - Black only
Bulk Cable Weight:	76 lbs/1000ft
Max Recommended Pulling Tension:	150 lbs
Min Bend Radius/Minor Axis:	3.6 in

#### Standards

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
RG Type:	8/U Type
RG / Series Type:	RG-8/U Type
Other Specification:	CEC/C(UL): CMP

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/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:	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
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## Part Number

### Variants

Item #	Color
DAS400P 0101000	Black
DAS400P 010500	Black

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