



**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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