



Product: [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

Suitable Applications:	DAS, Distributed Antenna System
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Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
10	Solid	BCCA - Bare Copper Covered Aluminum	0.108	1

Insulation	
Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.285 mm

Outer Shield				
Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		

Outer Jacket	
Material	Nominal Diameter
PVDF - Polyvinylidene Fluoride	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

Inductance
Nominal Inductance
0.060 µH/ft

Impedance
Nominal Characteristic Impedance
50 Ohm

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. Pull Tension:	150 lbs
Min. Bend Radius/Minor Axis:	3.6 in

Standards

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
RG Type:	8
Other Specification:	CEC/C(UL): CMP

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Plenum
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	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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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
DAS400P 010500	Black	Reel	500 ft	612825285113
DAS400P 0101000	Black	Reel	1,000 ft	612825285106

History

Update and Revision:	Revision Number: 0.139 Revision Date: 12-15-2021
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