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Part Number: DAS6P

Distributed Antenna System RG6 Type BC Coax, CMP

Product Description

DAS RG-6 type, 18 AWG solid .040" bare copper conductor, foamed FEP insulation, Duobond® II foil shield + tinned copper braid shield (85% coverage), CMP rated, low smoke PVC jacket.

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.040 in	1

Conductor Size:	18 AWG
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Insulation

Material	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	0.168 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum / Polyester / Aluminum	Duobond® II	100.0 %
Braid	2	TC - Tinned Copper		85.0 %

Outer Jacket Material

Material	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	0.233 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Outer Conductor DCR
6.4 Ohm/1000ft	3.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.1 pF/ft

Inductance

Nominal Inductance
0.103 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 - 3000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.55 dB/100ft
10 MHz	0.75 dB/100ft
50 MHz	1.50 dB/100ft
100 MHz	2.10 dB/100ft
200 MHz	3.00 dB/100ft
400 MHz	4.30 dB/100ft
700 MHz	6.00 dB/100ft
900 MHz	6.90 dB/100ft
1000 MHz	7.30 dB/100ft
1500 MHz	9.20 dB/100ft
2000 MHz	10.90 dB/100ft
2250 MHz	11.60 dB/100ft
3000 MHz	13.70 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	82.0 %

Voltage

UL Voltage Rating
300V RMS

Electrical Characteristics Notes: Return Loss: Fixed bridge and termination

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-35°C To +75°C

Mechanical Characteristics

UV Resistance:	No
Bulk Cable Weight:	34 lbs/1000ft
Max Recommended Pulling Tension:	59 lbs
Min Bend Radius/Minor Axis:	2.3 in

Standards

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
RG Type:	6/U Type
RG / Series Type:	6/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/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:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes

Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

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

Non-Plenum Number:	DAS11R
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Variants

Item #	Color
DAS6P 0101000	Black
DAS6P 0103000	Black

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