



Part Number: DAS6R

Distributed Antenna System RG-6 Type BC Coax, CMR

Product Description

DAS RG-6/U type, 18 AWG solid .040" bare copper conductor, gas-injected foam high density polyethylene insulation, Duofoil® aluminum tape + tinned copper braid shield (95% coverage), CMR rated PVC jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor
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
Gas-injected FHDPE - Foam High Density Polyethylene	0.168 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum / Polyester / Aluminum	Duofoil®	100.0 %
Braid	2	TC - Tinned Copper		95.0 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.233 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Outer Conductor DCR
6.4 Ohm/1000ft	2.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.7 pF/ft

Inductance

Nominal Inductance
0.106 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss

Frequency [MHz]	Minimum Return (RL)
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5 - 3000 MHz	15 dB
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.52 dB/100ft
10 MHz	0.71 dB/100ft
50 MHz	1.45 dB/100ft
100 MHz	1.95 dB/100ft
200 MHz	2.71 dB/100ft
400 MHz	3.91 dB/100ft
700 MHz	5.30 dB/100ft
900 MHz	6.07 dB/100ft
1000 MHz	6.42 dB/100ft
1500 MHz	7.99 dB/100ft
2000 MHz	9.37 dB/100ft
2250 MHz	10.01 dB/100ft
3000 MHz	11.78 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.21 ns/ft	84.0 %

Voltage

UL Voltage Rating
300V RMS

Other Electrical Characteristic 1:	TDR Impedance: 75 +/- 3 Ohms
Other Electrical Characteristic 2:	Return Loss: Fixed bridge and termination

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	31 lbs/1000ft
Max Recommended Pulling Tension:	69 lbs
Min Bend Radius/Minor Axis:	2.3 in

Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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):	2004-01-01
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
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Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4
UL Voltage Rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	DAS6P

Part Number

Variants

Item #	Color
DAS6R 0101000	Black
DAS6R 0103000	Black

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