



Product: [DA1695A](#)

Distributed Antenna System RG6 Type BC Coax, CMP

Product Description

DAS RG-6 type, 18 AWG solid .040" bare copper conductor, foamed FEP insulation, Duofoil® + tinned copper braid shield (95% coverage), CMP rated, low smoke PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	Distributed Antenna System
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Physical Characteristics (Overall)

Conductor

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

Insulation

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.17 in

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.229 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
6.4 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.2 pF/ft

Inductance

Nominal Inductance
0.103 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 - 1000 MHz	20 dB
1000 - 3000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.24 dB/100ft
3.58 MHz	0.45 dB/100ft
5 MHz	0.55 dB/100ft
7 MHz	0.65 dB/100ft
10 MHz	0.75 dB/100ft
67.5 MHz	1.74 dB/100ft
71.5 MHz	1.78 dB/100ft
88.5 MHz	1.94 dB/100ft
100 MHz	2.1 dB/100ft
135 MHz	2.4 dB/100ft
143 MHz	2.5 dB/100ft
180 MHz	2.8 dB/100ft
270 MHz	3.4 dB/100ft
360 MHz	4.0 dB/100ft
540 MHz	5.2 dB/100ft
720 MHz	6.1 dB/100ft
750 MHz	6.2 dB/100ft
1000 MHz	7.4 dB/100ft
1500 MHz	9.5 dB/100ft
2000 MHz	11.3 dB/100ft
2250 MHz	12.2 dB/100ft
3000 MHz	14.6 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.22 ns/ft	83%

Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	Return Loss: Fixed bridge and termination
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Temperature Range

UL Temp Rating:	75°C
Operating Temperature Range:	-20°C To +75°C

Mechanical Characteristics

UV Resistance:	No
Bulk Cable Weight:	37 lbs/1000ft
Max. Pull Tension:	69 lbs
Min. Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
RG Type:	6

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Plenum
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/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:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

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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Related Part Numbers

Non-Plenum Number:	DA1694A
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Variants

Item #	Color	Put-Up Type	Length	UPC
DA1695A 0101000	Black	Reel	1,000 ft	612825285229
DA1695A 0103000	Black	Reel	3,000 ft	612825285236
DA1695A 0105000	Black	Reel	5,000 ft	612825285243
DA1695A 8771000	Natural	Reel	1,000 ft	612825285250
DA1695A 8773000	Natural	Reel	3,000 ft	612825285267
DA1695A 8775000	Natural	Reel	5,000 ft	612825285274

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.81 Revision Date: 04-29-2024
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