



Part Number: 1695A

Serial Digital Coax, RG6, #18 Solid BC, Foil + 95% TC braid, CMP

Product Description

Low Loss Serial Digital Coax, Plenum-CMP, RG6 18 AWG solid bare copper conductor, foam FEP core, Duofoil®+95% tinned copper braid, Flamarrest® jacket

Technical Specifications

Product Overview

Environmental Space:	Indoor - Plenum
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.04 in	1

Conductor Count:	1
Conductor Size:	18 AWG

Insulation

Material	Material Trade Name	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	Teflon®	0.17 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.229 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
6.4 Ohm/1000ft	2.8 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 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 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
4500 MHz	18.6 dB/100ft
6000 MHz	22.4 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 Temp Range:	-20°C To +75°C

Mechanical Characteristics

UV Resistance:	No
Bulk Cable Weight:	41 lbs/1000ft
Max Recommended Pulling Tension:	69 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
CPR Euroclass:	Eca
RG Type:	6/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	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
MII Order #39 (China RoHS):	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
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	1694A
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Variants

Item #	Color	UPC	Length	Footnote
1695A 0101000	Black	612825121190	1,000 ft	C
1695A 010500	Black	612825121206	500 ft	C
1695A 0105000	Black	612825121213	5,000 ft	C
1695A 0061000	Blue, Light	612825121169	1,000 ft	C
1695A 006500	Blue, Light	612825352938	500 ft	
1695A 006500	Blue, Light	612825352938	500 ft	
1695A 0011000	Brown	612825121121	1,000 ft	C
1695A 0081000	Gray	612825121183	1,000 ft	C
1695A N3U1000	Green, Mil	612825121114	1,000 ft	C
1695A 8771000	Natural	612825121220	1,000 ft	C
1695A 877500	Natural	612825121237	500 ft	Z
1695A 0031000	Orange	612825121145	1,000 ft	C
1695A 0021000	Red	612825121138	1,000 ft	C
1695A 0071000	Violet	612825121176	1,000 ft	C
1695A 0075000	Violet	612825353195	5,000 ft	
1695A 0075000	Violet	612825353195	5,000 ft	
1695A 0041000	Yellow	612825121152	1,000 ft	C

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Product Notes

Notes:	Print legend includes sequential footage marks.
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History

Update and Revision:	Revision Number: 0.276 Revision Date: 12-12-2018
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