

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

Construction and Dimensions

Conductor:

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

Total Number of Conductors:	1
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Insulation:

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

Outershield 1:

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

Outerjacket 1:

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

16.1 pF/ft

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D 4566 - 05 paragraph 48.2, option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2:

Return Loss tested in accordance with ASTM D 4566 - 05 paragraph 50.3, using a 75 Ohm fixed bridge and termination.

Sweep Testing:

100% Sweep tested 5 MHz to 4.5 GHz.

Impedance:**Nominal Characteristic Impedance**

75 Ohm

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 dB/100ft
540 MHz	5.2 dB/100ft
720 MHz	6.1 dB/100ft
750 MHz	6.2 dB/100ft
1000 MHz	7.3 dB/100ft
1500 MHz	9.2 dB/100ft
2000 MHz	10.9 dB/100ft
2250 MHz	11.6 dB/100ft
3000 MHz	13.7 dB/100ft
4500 MHz	19.9 dB/100ft

Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	82 %

High Freq:

Min. RL (Return Loss) [dB]
23 dB
21 dB

Inductance:

Nominal Inductance
0.103 μ H/ft

Voltage:

UL Voltage Rating
300V RMS V

Use

Suitability - Indoor:	Yes
Max Recommended Pulling Tension:	69 lbs

Safety

CSA Flammability:	FT6
UL Flammability:	NFPA 262

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.5 in
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Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	1694A
Suggested Connectors:	Amphenol 31-70000; Kings 2065-9-9; ADC BNC-1695D; Amp 1-221185-6

Standards

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMP
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CMP
RG Type:	6/U
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No

History

Notes:	Teflon [®] is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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Product Variants

Part Number	Color	Put-Up Type	Length
1695A	BROWN	Reel	1000 ft
1695A	BROWN	Reel	305 m
1695A 0011000	BROWN	Reel	1000 ft
1695A	BROWN	Reel	
1695A	RED	Reel	1000 ft
1695A	RED	Reel	305 m
1695A 0021000	RED	Reel	1000 ft
1695A	ORANGE	Reel	1000 ft
1695A	ORANGE	Reel	305 m
1695A 0031000	ORANGE	Reel	1000 ft
1695A	YELLOW	Reel	1000 ft
1695A	YELLOW	Reel	305 m
1695A 0041000	YELLOW	Reel	1000 ft
1695A	BLUE, LIGHT	Reel	1000 ft
1695A	BLUE, LIGHT	Reel	305 m
1695A 0061000	BLUE, LIGHT	Reel	1000 ft
1695A			
1695A			
1695A	VIOLET	Reel	1000 ft
1695A	PURPLE	Reel	305 m
1695A 0071000	VIOLET	Reel	1000 ft
1695A			

1695A				
1695A	GRAY		Reel	1000 ft
1695A	GRAY		Reel	305 m
1695A 0081000	GRAY		Reel	1000 ft
1695A	BLACK		Reel	1000 ft
1695A	BLACK		Reel	305 m
1695A 0101000	BLACK		Reel	1000 ft
1695A	BLACK		Reel	5000 ft
1695A 0105000	BLACK		Reel	5000 ft
1695A	BLACK		Reel	500 ft
1695A	BLACK		Reel	152 m
1695A 010500	BLACK		Reel	500 ft
1695A	NATURAL		Reel	1000 ft
1695A	NATURAL		Reel	305 m
1695A 8771000	NATURAL		Reel	1000 ft
1695A	NATURAL		Reel	500 ft
1695A	NATURAL		Reel	152 m
1695A 877500	NATURAL		Reel	500 ft
1695A	GREEN, MIL		Reel	1000 ft
1695A	MIL GREEN		Reel	305 m
1695A N3U1000	GREEN, MIL		Reel	1000 ft
1695A				

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