



Product: [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, Flammarrest® jacket

Technical Specifications

Physical Characteristics (Overall)

Conductor

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

Conductor Count:

Insulation

Material	Material Trade Name	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	Teflon®	0.17 in

Outer Shield Material

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

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
PVC-LS - Polyvinyl Chloride (Low Smoke)	Flammarrest®	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
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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. Pull Tension:	69 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Plenum
EU Directive 2000/53/EC (ELV):	Yes
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
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
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	Putup Type	Length	UPC
1695A 010500	Black	Reel	500 ft	612825121206
1695A 010Z500	Black	ReelTuff Box	500 ft	612825434603
1695A 0101000	Black	Reel	1,000 ft	612825121190
1695A 010Z1000	Black	ReelTuff Box	1,000 ft	612825434504
1695A 0105000	Black	Reel	5,000 ft	612825121213
1695A 01010000	Black	Reel	10,000 ft	612825435662
1695A 006500	Blue, Light	Reel	500 ft	612825352938
1695A 0061000	Blue, Light	Reel	1,000 ft	612825121169
1695A 006Z1000	Blue, Light	ReelTuff Box	1,000 ft	612825434474
1695A 00610000	Blue, Light	Reel	10,000 ft	612825435716
1695A 0011000	Brown	Reel	1,000 ft	612825121121
1695A 00110000	Brown	Reel	10,000 ft	612825435679
1695A 0081000	Gray	Reel	1,000 ft	612825121183
1695A 00810000	Gray	Reel	10,000 ft	612825435747
1695A N3U1000	Green, Mil	Reel	1,000 ft	612825121114
1695A N3U10000	Green, Mil	Reel	10,000 ft	612825435761
1695A 877500	Natural	Reel	500 ft	612825121237
1695A 8771000	Natural	Reel	1,000 ft	612825121220
1695A 877Z1000	Natural	ReelTuff Box	1,000 ft	612825434511
1695A 87710000	Natural	Reel	10,000 ft	612825435754
1695A 0031000	Orange	Reel	1,000 ft	612825121145
1695A 003Z1000	Orange	ReelTuff Box	1,000 ft	612825434450
1695A 00310000	Orange	Reel	10,000 ft	612825435693
1695A 0021000	Red	Reel	1,000 ft	612825121138
1695A 002Z1000	Red	ReelTuff Box	1,000 ft	612825434429
1695A 00210000	Red	Reel	10,000 ft	612825435686
1695A 0071000	Violet	Reel	1,000 ft	612825121176
1695A 007Z1000	Violet	ReelTuff Box	1,000 ft	612825434481
1695A 0075000	Violet	Reel	5,000 ft	612825353195
1695A 00710000	Violet	Reel	10,000 ft	612825435730
1695A 0041000	Yellow	Reel	1,000 ft	612825121152
1695A 004Z1000	Yellow	ReelTuff Box	1,000 ft	612825434467
1695A 00410000	Yellow	Reel	10,000 ft	612825435709

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

Notes:	Print legend includes sequential footage marks.
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History

Update and Revision:	Revision Number: 0.295 Revision Date: 04-28-2020
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