

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION



1695A Coax - Low Loss Serial Digital Coax

For more Information
please call

1-800-Belden1



General 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

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BC - Bare Copper	1.016

Total Number of Conductors:

1

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	4.318

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:

5.817 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	61.016 Kg/Km
Max. Recommended Pulling Tension:	306.926 N
Min. Bend Radius/Minor Axis:	63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	6/U

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Flame Test

UL Flame Test: NFPA 262

CSA Flame Test: FT6

Suitability

Suitability - Indoor: Yes

Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 1694A

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (μ H/m)
0.337943

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
52.8241

Nominal Velocity of Propagation:

VP (%)
82

Nominal Delay:

Delay (ns/m)
4.06844

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
20.9984

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
9.1868

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.787
3.580	1.476
5.000	1.805
7.000	2.133
10.000	2.461
67.500	5.709
71.500	5.840
88.500	6.365
100.000	6.890
135.000	7.874
143.000	8.203
180.000	9.187
270.000	11.155
360.000	13.124
540.000	17.061
720.000	20.014
750.000	20.342
1000.000	23.951
1500.000	30.185
2000.000	35.763
2250.000	38.060
3000.000	44.950
4500.000	65.292

Max. Operating Voltage - UL:

Voltage
300 V RMS

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.

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Other Electrical Characteristic 2:

Return Loss tested in accordance with AS I M U 4566 - 05 paragraph 50.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	1600.000	23.000
1600.000	4500.000	21.000

Sweep Test

Sweep Testing:

100% Sweep tested 5 MHz to 4.5 GHz.

Notes (Overall)

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1695A N3U1000	1,000 FT	40.000 LB	GREEN, MIL	C	#18 FFEP SH FLRST
1695A 0011000	1,000 FT	44.000 LB	BROWN	C	#18 FFEP SH FLRST
1695A 0021000	1,000 FT	40.000 LB	RED	C	#18 FFEP SH FLRST
1695A 0031000	1,000 FT	40.000 LB	ORANGE	C	#18 FFEP SH FLRST
1695A 0041000	1,000 FT	40.000 LB	YELLOW	C	#18 FFEP SH FLRST
1695A 0061000	1,000 FT	40.000 LB	BLUE, LIGHT	C	#18 FFEP SH FLRST
1695A 0071000	1,000 FT	40.000 LB	VIOLET	C	#18 FFEP SH FLRST
1695A 0081000	1,000 FT	40.000 LB	GRAY	C	#18 FFEP SH FLRST
1695A 0101000	1,000 FT	40.000 LB	BLACK	C	#18 FFEP SH FLRST
1695A 010500	500 FT	20.000 LB	BLACK	C	#18 FFEP SH FLRST
1695A 0105000	5,000 FT	190.000 LB	BLACK	C	#18 FFEP SH FLRST
1695A 8771000	1,000 FT	40.000 LB	NATURAL	C	#18 FFEP SH FLRST
1695A 877500	500 FT	18.500 LB	NATURAL	Z	#18 FFEP SH FLRST

Notes:

C = CRATE REEL PUT-UP.

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

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