

## 1695A Coax - Low Loss Serial Digital Coax

For more Information  
please call

1-800-Belden1

**General Description:**

RG-6/U type, 18 AWG solid .040" bare copper conductor, plenum, foam FEP insulation, Duofoil® + tinned copper braid shield (95% coverage), Flamarrest® jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BC - Bare Copper	.040

Total Number of Conductors: 1

**Insulation****Insulation Material:**

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	.170

**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: 0.229 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	41 lbs/1000 ft.
Max. Recommended Pulling Tension:	69 lbs.
Min. Bend Radius/Minor Axis:	2.500 in.

**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

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EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	6/U
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**Flame Test**

UL Flame Test:	NFPA 262
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CSA Flame Test:	FT6
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**Suitability**

Suitability - Outdoor:	No
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**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
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Non-Plenum Number:	1694A
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
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75
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**Nom. Inductance:**

Inductance (μH/ft)
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0.103
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**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
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16.1
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**Nominal Velocity of Propagation:**

VP (%)
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82
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**Nominal Delay:**

Delay (ns/ft)
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1.24
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**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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6.4
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**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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2.8
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**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
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1.000	0.240
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3.580	0.450
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5.000	0.550
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7.000	0.650
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10.000	0.750
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67.500	1.740
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71.500	1.780
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88.500	1.940
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100.000	2.100
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135.000	2.400
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143.000	2.500
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180.000	2.800
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270.000	3.400
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360.000	4.000
540.000	5.200
720.000	6.100
750.000	6.200
1000.000	7.300
1500.000	9.200
2000.000	10.900
2250.000	11.600
3000.000	13.700
4500.000	19.900

**Max. Operating Voltage - UL:**

<b>Voltage</b>
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.

**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.

**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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