

## 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), Flammarrest® 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
Flammarrest®	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

### 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 (µH/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

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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:

<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	305 MT	18.144 KG	GREEN, MIL	C	#18 FFEP SH FLRST
1695A 0011000	305 MT	19.958 KG	BROWN	C	#18 FFEP SH FLRST
1695A 0021000	305 MT	18.144 KG	RED	C	#18 FFEP SH FLRST
1695A 0031000	305 MT	18.144 KG	ORANGE	C	#18 FFEP SH FLRST
1695A 0041000	305 MT	18.144 KG	YELLOW	C	#18 FFEP SH FLRST
1695A 0061000	305 MT	18.144 KG	BLUE, LIGHT	C	#18 FFEP SH FLRST
1695A 0071000	305 MT	18.144 KG	VIOLET	C	#18 FFEP SH FLRST
1695A 0081000	305 MT	18.144 KG	GRAY	C	#18 FFEP SH FLRST
1695A 0101000	305 MT	18.144 KG	BLACK	C	#18 FFEP SH FLRST
1695A 010500	152 MT	9.072 KG	BLACK	C	#18 FFEP SH FLRST
1695A 0105000	1,524 MT	86.183 KG	BLACK	C	#18 FFEP SH FLRST
1695A 8771000	305 MT	18.144 KG	NATURAL	C	#18 FFEP SH FLRST
1695A 877500	152 MT	8.391 KG	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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