METRIC MEASUREMENT VERSION



## 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	<b>Conductor Material</b>	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
ı	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	

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	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
Fla	me Test	
	UL Flame Test:	NFPA 262
	CSA Flame Test:	FT6
Sui	tability	
	Suitability - Indoor:	Yes
Ple	num/Non-Plenum	
	Plenum (Y/N):	Yes
	Non-Plenum Number:	1694A

# **Electrical Characteristics (Overall)**

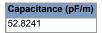
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



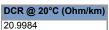
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



**Nominal Outer Shield DC Resistance:** 



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:

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.

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