



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

Usage (Overall)

Suitable Applications: SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p

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

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

1695A Coax - Low Loss Serial Digital Coax

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	24.279
1500.000	31.170
2000.000	37.075
2250.000	40.028
3000.000	47.903
4500.000	61.027
6000.000	73.494

Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1: Impedance: 75 +/- 3 Ohms

Other Electrical Characteristic 2: Return Loss: 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
4500.000	6000.000	15.000

Sweep Test

Sweep Testing: 100#37; Sweep tested 5 MHz to 6 GHz.

Notes (Overall)

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1695A N3U1000	1,000 FT	44.000 LB	GREEN, MIL	C	#18 FFEP SH FLRST
1695A N3U10000	10,000 FT	370.000 LB	GREEN, MIL		#18 FFEP SH FLRST
1695A 0011000	1,000 FT	44.000 LB	BROWN	C	#18 FFEP SH FLRST
1695A 00110000	10,000 FT	370.000 LB	BROWN		#18 FFEP SH FLRST
1695A 002Z1000	1,000 FT	40.000 LB	RED		#18 FFEP SH FLRST
1695A 0021000	1,000 FT	44.000 LB	RED	C	#18 FFEP SH FLRST
1695A 00210000	10,000 FT	370.000 LB	RED		#18 FFEP SH FLRST
1695A 003Z1000	1,000 FT	40.000 LB	ORANGE		#18 FFEP SH FLRST
1695A 0031000	1,000 FT	44.000 LB	ORANGE	C	#18 FFEP SH FLRST
1695A 00310000	10,000 FT	370.000 LB	ORANGE		#18 FFEP SH FLRST
1695A 004Z1000	1,000 FT	40.000 LB	YELLOW		#18 FFEP SH FLRST
1695A 0041000	1,000 FT	44.000 LB	YELLOW	C	#18 FFEP SH FLRST
1695A 00410000	10,000 FT	370.000 LB	YELLOW		#18 FFEP SH FLRST
1695A 006Z1000	1,000 FT	40.000 LB	BLUE, LIGHT		#18 FFEP SH FLRST
1695A 0061000	1,000 FT	44.000 LB	BLUE, LIGHT	C	#18 FFEP SH FLRST
1695A 00610000	10,000 FT	370.000 LB	BLUE, LIGHT		#18 FFEP SH FLRST
1695A 006500	500 FT	22.000 LB	BLUE, LIGHT		#18 FFEP SH FLRST
1695A 007Z1000	1,000 FT	40.000 LB	VIOLET		#18 FFEP SH FLRST
1695A 0071000	1,000 FT	44.000 LB	VIOLET	C	#18 FFEP SH FLRST
1695A 00710000	10,000 FT	370.000 LB	VIOLET		#18 FFEP SH FLRST
1695A 0075000	5,000 FT	220.000 LB	VIOLET		#18 FFEP SH FLRST
1695A 0081000	1,000 FT	44.000 LB	GRAY	C	#18 FFEP SH FLRST
1695A 00810000	10,000 FT	370.000 LB	GRAY		#18 FFEP SH FLRST

METRIC MEASUREMENT VERSION

1695A Coax - Low Loss Serial Digital Coax

1695A 010Z1000	1,000 FT	40.000 LB	BLACK		#18 FFEP SH FLRST
1695A 010Z500	500 FT	22.000 LB	BLACK		#18 FFEP SH FLRST
1695A 0101000	1,000 FT	44.000 LB	BLACK	C	#18 FFEP SH FLRST
1695A 01010000	10,000 FT	370.000 LB	BLACK		#18 FFEP SH FLRST
1695A 010500	500 FT	22.000 LB	BLACK	C	#18 FFEP SH FLRST
1695A 0105000	5,000 FT	210.000 LB	BLACK	C	#18 FFEP SH FLRST
1695A 877Z1000	1,000 FT	40.000 LB	NATURAL		#18 FFEP SH FLRST
1695A 8771000	1,000 FT	44.000 LB	NATURAL	C	#18 FFEP SH FLRST
1695A 87710000	10,000 FT	370.000 LB	NATURAL		#18 FFEP SH FLRST
1695A 877500	500 FT	22.000 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.

Revision Number: 10 Revision Date: 04-12-2017

© 2019 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

[1695A 0061000](#) [1695A 0041000](#) [1695A 877500](#) [1695A 0071000](#) [1695A 0091000](#) [1695A 0101000](#) [1695A 0021000](#)
[1695A 010500](#) [1695A N3U1000](#) [1695A 0011000](#) [1695A 0031000](#) [1695A 0081000](#) [1695A 8771000](#) [1695A 0105000](#)