Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

EU Directive 2000/53/EC (ELV):

1794A Coax - Low Loss Serial Digital Coax



For more Information please call

1-800-Belden1



Description:

16 AWG solid 0.051" bare copper conductor, gas-injected foamed high-density polyethylene insulation, Duofoil® + tinned copper braid shield (95% coverage) plus Beldfoil® with shorting fold, PVC jacket.

	id (55% coverage) plus Delatone		/ Jacket.		
Usage (Overall)					
Suitable Applications:	Suitable Applications: SMPTE 424M 3 Gb/s HD-SDI 1080p				
Physical Characteristics (Overall)				
Conductor AWG:	,				
# Coax AWG Stranding Conductor Mat	erial Dia. (in.)				
1 16 Solid BC - Bare Copp					
Total Number of Conductors:	1				
Insulation Insulation Material:					
Insulation Material	Dia. (in.)				
Gas-injected FHDPE - Foam High Density					
Outer Shield	i				
Outer Shield Material:					
Layer # Outer Shield Trade Name Type	Outer Shield Material	Coverage (%)			
	Aluminum Foil-Polyester Tape-Aluminum Foil				
2 Braid 3 Beldfoil® with shorting fold Tape	TC - Tinned Copper	95.000			
		100.000			
Outer Jacket Outer Jacket Material:					
Outer Jacket Material					
PVC - Polyvinyl Chloride					
Overall Cable					
Overall Nominal Diameter:	0.320 in.				
Mechanical Characteristics (Ove	rall)				
Operating Temperature Range:	-30°C To +75°C				
Bulk Cable Weight:	59 lbs/1000 ft.	59 lbs/1000 ft.			
Max. Recommended Pulling Tension: 111 lbs.					
Min. Bend Radius/Minor Axis:	3.250 in.				
Applicable Specifications and Ag	jency Compliance (Overall)				
Applicable Standards & Environme					
NEC/(UL) Specification:	CMR				
CEC/C(UL) Specification:	CMG				
EU CE Mark:	Yes				

Yes

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

100.000

1.460

1794A Coax - Low Loss Serial Digital Coax

EU Dire	ective 2002/95/EC (RoHS):	Yes
	HS Compliance Date (mm/dd/yyyy):	01/01/2004
		Yes
	ective 2002/96/EC (WEEE):	
	ective 2003/11/EC (BFR):	Yes
CA Pro	op 65 (CJ for Wire & Cable):	Yes
MII Ord	ler #39 (China RoHS):	Yes
Series	Туре:	Series 7
Flame Tes	st	
UL Flar	me Test:	UL1666 Vertical Shaft
CSA FI	ame Test:	FT4
Suitability	,	
-	ility - Indoor:	Yes
	on-Plenum	
Plenum		No
Fienun	(1/N).	INU
lectrical	Characteristics (Overall)	
	acteristic Impedance:	
Impedance 75	ce (Onm)	
75		
Nom. Induc	stance:	
Inductand	ce (µH/ft)	
0.091		
Nom. Capa	citance Conductor to Shield:	
16.100	nce (pF/ft)	
16.100		
Nominal Ve	elocity of Propagation:	
VP (%)		
84.000		
Nominal De	elay:	
Delay (ns	-	
1.210	7	
Nom Cond	uctor DC Resistance:	
4.000	0°C (Ohm/1000 ft)	
	uter Shield DC Resistance:	
-	0°C (Ohm/1000 ft)	
1.900		
Nom. Atten		
	Iz) Attenuation (dB/100 ft.)	
1.000	0.170	
3.580	0.300	
5.000	0.350	
6.000	0.380	
7.000	0.400	
10.000	0.480	
12.000	0.520	
25.000	0.740	
55.000	1.080	
67.500	1.200	
71.500	1.240	
88.500	1.370	

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1794A Coax - Low Loss Serial Digital Coax

135.000	1.700
143.000	1.750
180.000	1.970
270.000	2.430
360.000	2.830
540.000	3.500
720.000	4.090
750.000	4.180
1000.000	4.890
1500.000	6.100
2000.000	7.200
2250.000	7.690
3000.000	9.080
4500.000	11.530

Max. Operating Voltage - UL:

Voltage

300 V RMS

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 3 Ohms

Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a

Other Electrical Characteristic 2:

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	1600	23
1600	4500	21

Sweep Test

Sweep Testing:

100% Sweep tested 5 MHz to 4.5 GHz.

75 Ohm fixed bridge and termination.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1794A N3U1000	1,000 FT	63.000 LB	GREEN, MIL	С	#16 LDPE/GIFHDLDPE SH FRPVC
1794A 0011000	1,000 FT	63.000 LB	BROWN	С	#16 LDPE/GIFHDLDPE SH FRPVC
1794A 0021000	1,000 FT	63.000 LB	RED	С	#16 LDPE/GIFHDLDPE SH FRPVC
1794A 0031000	1,000 FT	63.000 LB	ORANGE	С	#16 LDPE/GIFHDLDPE SH FRPVC
1794A 0041000	1,000 FT	63.000 LB	YELLOW	С	#16 LDPE/GIFHDLDPE SH FRPVC
1794A 0061000	1,000 FT	63.000 LB	BLUE, LIGHT	С	#16 LDPE/GIFHDLDPE SH FRPVC
1794A 0071000	1,000 FT	63.000 LB	VIOLET	С	#16 LDPE/GIFHDLDPE SH FRPVC
1794A 0081000	1,000 FT	63.000 LB	GRAY	С	#16 LDPE/GIFHDLDPE SH FRPVC
1794A 0091000	1,000 FT	63.000 LB	WHITE	С	#16 LDPE/GIFHDLDPE SH FRPVC
1794A 0101000	1,000 FT	63.000 LB	BLACK	С	#16 LDPE/GIFHDLDPE SH FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 05-12-2010

© 2012 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



ENGLISH MEASUREMENT VERSION

1794A Coax - Low Loss Serial Digital Coax

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. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.