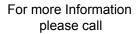
## **Detailed Specifications & Technical Data**



## ENGLISH MEASUREMENT VERSION

## 1694A Coax - Low Loss Serial Digital Coax



1-800-Belden1



## **Description:**

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RG-6/U Type, 18 AWG solid .040" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

	<b>U</b> 7.			
Physical Characteristics (Ov	erall)			
Conductor AWG:				
# Coax AWG Stranding Conduct	or Material Dia. (i	n.)		
1 18 Solid BC - Bare	e Copper .040			
Insulation				
Insulation Material:				
Insulation Material Gas-injected FHDPE - Foam High D	)ensity Polyethylen	Dia. (in.) e .180		
Outer Shield Outer Shield Material:				
Layer # Outer Shield Trade Name	Type Outer Shie	eld Material	Coverage (%)	
1 Duofoil®		Foil-Polyester Tape-Aluminum Fo		
2	Braid TC - Tinne	d Copper	95	
Outer Jacket				
Outer Jacket Material:				
Outer Jacket Material PVC - Polyvinyl Chloride				
Overall Cabling Overall Nominal Diameter:		0.274 in.		
		0.274 111.		 
Mechanical Characteristics (	Overall)			
Operating Temperature Range	):	-30°C To +75°C		
UL Temperature Rating:		75°C		
Bulk Cable Weight:		40 lbs/1000 ft.		
Max. Recommended Pulling T	ension:	69 lbs.		 
Min. Bend Radius (Install)/Min	or Axis:	2.750 in.		
Applicable Specifications an				
Applicable Standards & Enviro NEC/(UL) Specification:	millentai Prog	CMR		
CEC/C(UL) Specification:		CMG		 
EU CE Mark:		Yes		 
EU Directive 2000/53/EC (ELV)		Yes		 
EU Directive 2002/95/EC (RoH	S):	Yes		 
EU RoHS Compliance Date (m	m/dd/yyyy):	01/01/2004		 
EU Directive 2002/96/EC (WEE	E):	Yes		

# **Detailed Specifications & Technical Data**

## ENGLISH MEASUREMENT VERSION

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143.000

2.300



## 1694A Coax - Low Loss Serial Digital Coax

EU Dire	ective 2003/11/EC (BFF	R):	Yes	
CA Pro	p 65 (CJ for Wire & Ca	able):	Yes	
MII Ord	er #39 (China RoHS):		Yes	
RG Typ			6/U	
ame Tes			0,0	
	ne Test:		UL1666 Vertical Shaft	
uitability	lity - Indoor:		Yes	
	lity - Outdoor:		Yes - Black only	
Suitabi	lity - Aerial:		Yes - Black only, when	supported by a messenger wire
lenum/No	on-Plenum			
Plenum	(Y/N):		No	
Plenum	Number:		1695A	
optrical	Characteristics (	Quarell		
	Characteristics (C acteristic Impedance:	overall)		
Impedanc	•			
75				
lom. Induc	tance:			
Inductanc				
0.106				
om. Capad	citance Conductor to	Shield:		
Capacitan	ce (pF/ft)			
16.2				
Nominal Ve	locity of Propagation:	:		
VP (%)				
82				
Nominal De	-			
Delay (ns/	ft)			
1.24				
	uctor DC Resistance:			
-	°C (Ohm/1000 ft)			
6.4				
	ter Shield DC Resista	ance:		
DCR @ 20 2.8	°C (Ohm/1000 ft)			
Nom. Atten				
Freq. (MH 1.000	z) Attenuation (dB/100 ft 0.240	t.)		
3.580	0.240			
5.000	0.520	-		
6.000	0.570			
7.000	0.610			
10.000 12.000	0.710	_		
25.000	1.080			
67.500	1.650	-		
71.500	1.690			
88.500	1.860			
100.000 135.000	1.950 2.240	_		
135.000	2.240	_		



## ENGLISH MEASUREMENT VERSION

1694A	Coax - Low	Loss Serial	<b>Digital Coax</b>
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180.000	2.570
270.000	3.170
360.000	3.690
540.000	4.600
720.000	5.380
750.000	5.500
1000.000	6.420
1500.000	7.990
2000.000	9.370
2250.000	10.010
3000.000	11.780
4500.000	14.920

#### Max. Operating Voltage - UL:

Voltage

300 V RMS

**Other Electrical Characteristic 1:** 

Other Electrical Characteristic 2:	Return Loss tested in a

Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2

using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

#### 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.

#### **Misc. Information (Overall)**

#### Notes (Overall)

Notes: Also available in bundled versions. See 7710A through 7713A.

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1694A N3U1000	1,000 FT	45.000 LB	GREEN, MIL	С	#18 PE/GIFHDPE SH FR PVC
1694A N3U5000	5,000 FT	225.000 LB	GREEN, MIL	CN	#18 PE/GIFHDPE SH FR PVC
1694A 0011000	1,000 FT	45.000 LB	BROWN	С	#18 PE/GIFHDPE SH FR PVC
1694A 0015000	5,000 FT	225.000 LB	BROWN	CN	#18 PE/GIFHDPE SH FR PVC
1694A 0021000	1,000 FT	45.000 LB	RED	С	#18 PE/GIFHDPE SH FR PVC
1694A 0025000	5,000 FT	225.000 LB	RED	CN	#18 PE/GIFHDPE SH FR PVC
1694A 0031000	1,000 FT	45.000 LB	ORANGE	С	#18 PE/GIFHDPE SH FR PVC
1694A 0041000	1,000 FT	45.000 LB	YELLOW	С	#18 PE/GIFHDPE SH FR PVC
1694A 0061000	1,000 FT	45.000 LB	BLUE, LIGHT	С	#18 PE/GIFHDPE SH FR PVC
1694A 0065000	5,000 FT	225.000 LB	BLUE, LIGHT	CN	#18 PE/GIFHDPE SH FR PVC
1694A 0071000	1,000 FT	45.000 LB	VIOLET	С	#18 PE/GIFHDPE SH FR PVC
1694A 0075000	5,000 FT	225.000 LB	VIOLET	CN	#18 PE/GIFHDPE SH FR PVC
1694A 0081000	1,000 FT	45.000 LB	GRAY	С	#18 PE/GIFHDPE SH FR PVC
1694A 0085000	5,000 FT	225.000 LB	GRAY	CN	#18 PE/GIFHDPE SH FR PVC
1694A 0091000	1,000 FT	45.000 LB	WHITE	С	#18 PE/GIFHDPE SH FR PVC
1694A 0101000	1,000 FT	45.000 LB	BLACK	С	#18 PE/GIFHDPE SH FR PVC
1694A 010500	500 FT	20.500 LB	BLACK	С	#18 PE/GIFHDPE SH FR PVC
1694A 0105000	5,000 FT	225.000 LB	BLACK	CN	#18 PE/GIFHDPE SH FR PVC

#### Notes:

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.



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#### 1694A Coax - Low Loss Serial Digital Coax

**Revision Number: 13** Revision Date: 03-23-2009

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