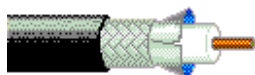


1694A Coax - Low Loss Serial Digital Coax



For more Information
please call

1-800-Belden1

**General Description:**

RG-6/U Type, 18 AWG solid .040" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC 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 Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	4.572

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 Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 6.960 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°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:	69.850 mm

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MIL Order #39 (China RoHS):	Yes
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RG Type:	6/U
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Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes - Black only
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Suitability - Aerial:	Yes - Black only, when supported by a messenger wire
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Plenum Number:	1695A
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

75

Nom. Inductance:

Inductance (μH/m)

0.347786

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.1522

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)
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1.000	0.787
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3.580	1.444
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5.000	1.706
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6.000	1.870
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7.000	2.001
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10.000	2.330
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12.000	2.559
--------	-------

25.000	3.543
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67.500	5.414
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71.500	5.545
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88.500	6.103
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100.000	6.398
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135.000	7.349
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METRIC MEASUREMENT VERSION

1694A Coax - Low Loss Serial Digital Coax

143.000	7.546
180.000	8.432
270.000	10.401
360.000	12.107
540.000	15.093
720.000	17.652
750.000	18.046
1000.000	21.064
1500.000	26.215
2000.000	30.743
2250.000	32.843
3000.000	38.650
4500.000	48.953

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 +/- 1.5 Ohms

Other Electrical Characteristic 2:

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

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	305 MT	20.412 KG	GREEN, MIL	C	#18 PE/GIFHDPE SH FR PVC
1694A N3U5000	1,524 MT	102.059 KG	GREEN, MIL	C N	#18 PE/GIFHDPE SH FR PVC
1694A 0011000	305 MT	20.412 KG	BROWN	C	#18 PE/GIFHDPE SH FR PVC
1694A 0015000	1,524 MT	102.059 KG	BROWN	C N	#18 PE/GIFHDPE SH FR PVC
1694A 0021000	305 MT	20.412 KG	RED	C	#18 PE/GIFHDPE SH FR PVC
1694A 0025000	1,524 MT	102.059 KG	RED	C N	#18 PE/GIFHDPE SH FR PVC
1694A 0031000	305 MT	20.412 KG	ORANGE	C	#18 PE/GIFHDPE SH FR PVC
1694A 0041000	305 MT	20.412 KG	YELLOW	C	#18 PE/GIFHDPE SH FR PVC
1694A 0061000	305 MT	20.412 KG	BLUE, LIGHT	C	#18 PE/GIFHDPE SH FR PVC
1694A 0065000	1,524 MT	102.059 KG	BLUE, LIGHT	C N	#18 PE/GIFHDPE SH FR PVC
1694A 0071000	305 MT	20.412 KG	VIOLET	C	#18 PE/GIFHDPE SH FR PVC
1694A 0075000	1,524 MT	102.059 KG	VIOLET	C N	#18 PE/GIFHDPE SH FR PVC
1694A 0081000	305 MT	20.412 KG	GRAY	C	#18 PE/GIFHDPE SH FR PVC
1694A 0085000	1,524 MT	102.059 KG	GRAY	C N	#18 PE/GIFHDPE SH FR PVC
1694A 0091000	305 MT	20.412 KG	WHITE	C	#18 PE/GIFHDPE SH FR PVC
1694A 0101000	305 MT	20.412 KG	BLACK	C	#18 PE/GIFHDPE SH FR PVC
1694A 010500	152 MT	10.206 KG	BLACK	C	#18 PE/GIFHDPE SH FR PVC
1694A 0105000	1,524 MT	102.059 KG	BLACK	C N	#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.

Test Reports

a) UL

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

b) CSA

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

* other test data may be available if requested at time of order.

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