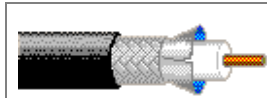


1694A Coax - Low Loss Serial Digital Coax



For more Information
please call

1-800-Belden1



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. (in.)
1	18	Solid	BC - Bare Copper	0.040

Insulation:

Insulation Material

Ins Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.180

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 Cabling:

Overall Nominal Diameter: .274 in.

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 Tension: 69 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.750 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification CMR

CEC/C(UL) Specification CMG

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

EU RoHS Compliance Date (mm/dd/yyyy) 01/01/2004

RG Type 6/U

Flame Test:

UL Flame Test UL1666 Vertical Shaft

Suitability:

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Suitability - Indoor	Yes
Suitability - Outdoor	Yes - Black only
Suitability - Aerial	Yes - Black only, when supported by a messenger wire
Plenum/Non-Plenum:	
Plenum (Y/N)	N
Plenum Number	1695A

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
75.000

Nom. Inductance

Inductance (µH/ft)
0.106

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
16.200

Nominal Velocity of Propagation

VP (%)
82

Nominal Delay

Delay (ns/ft)
1.240

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
6.400

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.800

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.240
	3.580			0.450
	5.000			0.540
	7.000			0.630
	10.000			0.720
	67.500			1.570
	71.500			1.600
	88.500			1.750
	100.000			1.840
	135.000			2.100
	143.000			2.160
	180.000			2.420
	270.000			2.970
	360.000			3.430
	540.000			4.250
	720.000			4.950
	750.000			5.000
	1000.000			5.890
	1500.000			7.330
	2000.000			8.570
	2250.000			9.140
	3000.000			10.670
	4500.000			13.290

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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

Description	Freq. (MHz)	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 Also available in bundled versions. See 7710A through 7713A.

PUT UPS AND COLORS:

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

Notes:

C = CRATE REEL PUT-UP.

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

Revision Number: 10 Revision Date: 05-14-2007

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