

1694F Coax - Low Loss Serial Digital Coax



For more Information
please call

1-800-Belden1

**Description:**

19 AWG stranded (7x27) bare copper conductor, gas-injected foam HDPE insulation, double tinned copper braid shield (99% coverage), PVC jacket.

Physical Characteristics (Overall)**Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	19	7x27	BC - Bare Copper	1.016

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	4.572

Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	TC - Tinned Copper	93
2	Braid	TC - Tinned Copper	93

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 7.010 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	74.410 Kg/Km
Max. Recommended Pulling Tension:	364.752 N
Min. Bend Radius (Install)/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
EU Directive 2002/96/EC (WEEE):	Yes

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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: UL1666 Vertical Shaft

Suitability

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): No

Plenum Number: 1695A

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 (%)

81

Nominal Delay:

Delay (ns/m)

4.10125

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

27.8885

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.5777

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1 0.78744

3.58 1.47645

5 1.77174

7 2.03422

10 2.36232

67.5 6.2339

71.5 6.562

88.5 7.2182

100 7.8744

135 9.1868

143 9.5149

180 10.8273

270 13.124

360 15.4207

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540	19.3579
720	22.6389
750	22.967
1000	26.9042
1500	34.1224
2000	40.3563
2250	43.3092
3000	51.1836
4500	64.9638

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Operating Voltage - Non-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	850	20
850	4500	15

Sweep Test**Sweep Testing:**

100% Sweep tested 5 MHz to 4.5 GHz.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1694F B591000	305 MT	24.494 KG	BLACK, MATTE	C	#19 GIFHDLDPDPE DBLB FRPVC
1694F G7V1000	305 MT	24.494 KG	RED, MATTE	C	QLTHLDFHDLDPDPE DBLB FRPVC
1694F G7W1000	305 MT	24.494 KG	GREEN, MATTE	C	#19 GIFHDLDPDPE DBLB FRPVC
1694F G7X1000	305 MT	24.494 KG	BLUE, MATTE	C	#19 GIFHDLDPDPE DBLB FRPVC
1694F G7Y1000	305 MT	24.494 KG	WHITE, MATTE	C	#19 GIFHDLDPDPE DBLB FRPVC
1694F G8L1000	305 MT	24.494 KG	ORANGE, MATTE	C	#19 GIFHDLDPDPE DBLB FRPVC
1694F G8M1000	305 MT	24.494 KG	YELLOW, MATTE	C	#19 GIFHDLDPDPE DBLB FRPVC
1694F Z4B1000	305 MT	24.494 KG	VIO Z4B	C	#19 GIFHDLDPDPE DBLB FRPVC

Notes:

C = CRATE REEL PUT-UP.

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