

GLOBAL CONNECTIVITY SOLUTIONS

75 Ohm 6G SDI BNC Male to HD-BNC Male Cable Assembly using 1694A-GY Coax, 10 FT

LCCA30798/GY-FT10

Configuration

- Connector 1: BNC Male
- Connector 2: HD-BNC Male
- Cable Type: Belden 1694A-GY

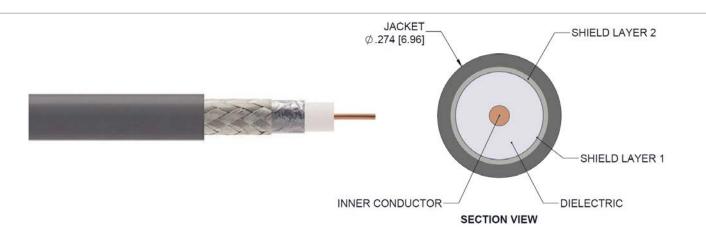
Features

- Meets SMPTE ST 2081-1
- · 6Gb/s Transmission

Applications

- · 6G-SDI, Video, and Broadband UHDTV
- Broadband Internet Delivery
- Broadcast A/V

- Cost Effective
- 4K/8K Video Equipment
- · Medical Equipment Requiring High Speed Video
- HD Cameras



Description

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L-com's LCCA30798/GY-FT10 is a 75 Ohm 6G SDI BNC male to HD-BNC male cable assembly using 1694A-GY coax, 10 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com BNC to HD-BNC cable assembly has a male to male gender configuration with 75 Ohm flexible 1694A-GY series coax and operates to 6 GHz and enables 6Gb/s data transfer rates for high resolution uncompressed video signal transmission. These products offer 4K and Ultra-HD quality signals that meet SMPTE Standard 2081-1. The shielding of this BNC cable is comprised of aluminum polyester.

Custom versions of this BNC male to BNC male cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day. Other available RF cable assembly value added services from L-com include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly. Contact a sales representative for testing or custom RF cable quotes. Part number LCCA30798/GY-FT10 L-com 75 Ohm 6G SDI BNC Male to HD-BNC Male Cable Assembly using 1694A-GY Coax, 10 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units

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Frequency Range DC		6	GHz
VSWR		1.5:1	
Velocity of Propagation	82		%
Group Delay	4.06 [13.32]		ns/ft [ns/m]
Capacitance	16.2 [53.15]		pF/ft [pF/m]
Inductance	0.347 [1.14]		uH/ft [uH/m]
DC Resistance Inner Conductor	6.4 [21]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor	3.8 [12.47]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)		300	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units	
Frequency	0.25	0.5	1	2.5	6	GHz	
Insertion Loss (Typ.)	0.5	0.63	0.83	1.23	1.97	dB	

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly Length Diameter Weight	120 in [304.8 cm] 0.5 in [12.7 mm] 0.3 lbs [136.08 g]
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter	Belden 1694A-GY 75 Ohms Solid Copper, Bare PE 1 Aluminum Polyester Tinned Copper PVC, Gray 0.274 in [6.96 mm]



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Connectors

Description	Connector 1	Connector 2
Туре	BNC Male	HD-BNC Male
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	10 µin minimum	10 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Outer Conductor Plating Specification	50 µin minimum	50 µin minimum
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Seal Gasket Material	Silicone	

Environmental Specifications

Temperature

Operating Range

-20 to +75 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

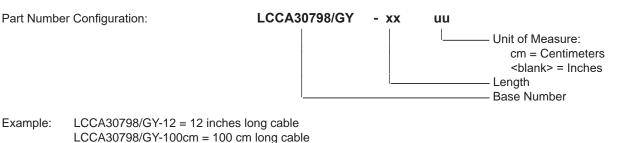
Values at 25°C, sea level.



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How to Order



75 Ohm 6G SDI BNC Male to HD-BNC Male Cable Assembly using 1694A-GY Coax, 10 FT from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to instock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.ontained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not maxe to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. APPROVED AGANWANI THIRD-ANGLE PROJECTION ∢ $\frac{1}{\sqrt{2}}$ R Ь A/A ~ $(\mathbf{\Phi})$ LCCA30798/ZZ DATE 5/2/22 SHEET SCALE 50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 | 1.978.682.6936 Fax: 1.978.689.9484 E-mail: CustomerService@L-com.com REVISIONS an INFINITe brand ITEM NO. Website: www.L-com.com INITIAL RELEASE DESCRIPTION HBAKKE HD BNC MALE DRAWN BY CAGE CODE 43321 REV. ∢ SIZE ∢ L = 12 [305] = +1 [25] / -0 12 [305] + L = 240 [304] = -2 [51] / -0 60 [1224] + L = 120 [3043] = -44 [102] / -0 120 [3048] < L = 300 [7620] = 46 [152] / -0 300 [7620] = 1 = 45% L / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS ANCES: CABLE LENGTH (L) TOLERANCES COAX CABLE COLOR $X = \pm .2$ [5.08] $XX = \pm .02$ [.51] $XXX = \pm .005$ [.13] ORANGE YELLOW BLACK BROWN GREEN VIOLET WHITE BLUE GRAY RED LENGTH MEASURED FROM CONTACT TO CONTACT COAX CABLE LCCA30798/ZZ (ZZ = CABLE COLOR DESIGNATION) THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED. LCCA30798/GR LCCA30798/OR LCCA30798/WH LCCA30798/YW LCCA30798/BR LCCA30798/RD LCCA30798/BK LCCA30798/GY LCCA30798/VL LCCA30798/BL 1694A 2X HEAT SHRINK BOOT **BNC MALE**

L-com CAD Drawing