

75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable Assembly using 1694A-BK Coax, 0 FT

# LCCA30801/BK



## Configuration

Connector 1: HD-BNC Male
Connector 2: 1.0/2.3 Male
Cable Type: Belden 1694A-BK

#### **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

L-com's LCCA30801/BK is a 75 Ohm 6G SDI HD-BNC male to 1.0/2.3 male cable assembly using 1694A-BK coax, 0 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com HD-BNC to 1.0/2.3 cable assembly has a male to male gender configuration with 75 Ohm flexible 1694A-BK 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 HD-BNC cable is comprised of aluminum polyester.

Custom versions of this HD-BNC male to HD-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 LCCA30801/BK L-com 75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable Assembly using 1694A-BK Coax, 0 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		4.5	GHz
VSWR		1.4:1	
Velocity of Propagation	82		%
Group Delay	4.06 [13.32]		ns/ft [ns/m]
Capacitance	53.15 [174.38]		pF/ft [pF/m]
Inductance	0.348 [1.14]		uH/ft [uH/m]
DC Resistance Inner Conductor	21 [68.9]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor	9.19 [30.15]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)		300	Vrms

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4.5	GHz
Insertion Loss (Typ.)	0.063	0.099	0.14	0.21	0.489	dB/ft
	0.21	0.32	0.46	0.69	1.6	dB/m

#### **Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### **Mechanical Specifications**

# **Cable Assembly**

 Diameter
 0.5 in [12.7 mm]

 Weight
 0.1 lbs [45.36 g]

#### Cable

Cable Type Belden 1694A-BK
Impedance 75 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Bare
Dielectric Type HDPE
Number of Shields 1
Shield Layer 1 Aluminum Polyester
Shield Layer 2 Tinned Copper

Jacket MaterialPVC, BlackJacket Diameter0.274 in [6.96 mm]



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## **Connectors**

Description	Connector 1	Connector 2
Туре	HD-BNC Male	1.0/2.3 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, Gold
Outer Conductor Plating Specification	50 µin minimum	3 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

-30 to +75 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

· Values at 25°C, sea level.

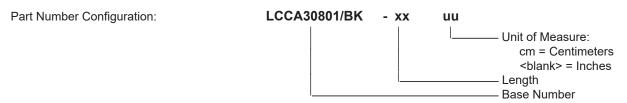


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#### **How to Order**



Example: LCCA30801/BK-12 = 12 inches long cable LCCA30801/BK-100cm = 100 cm long cable

75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable Assembly using 1694A-BK Coax, 0 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 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.

# **L-com CAD Drawing**

