

# **GLOBAL CONNECTIVITY SOLUTIONS**

0-10 0-10

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

# LCCA30802/BK

#### Configuration

- Connector 1: 1.0/2.3 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

1

L-com's LCCA30802/BK is a 75 Ohm 6G SDI 1.0/2.3 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 1.0/2.3 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 1.0/2.3 cable is comprised of aluminum polyester.

Custom versions of this 1.0/2.3 male to 1.0/2.3 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 LCCA30802/BK L-com 75 Ohm 6G SDI 1.0/2.3 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





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



# LCCA30802/BK

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**

Diameter	0.5 in [12.7 mm]
Weight	0.1 lbs [45.36 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-BK 75 Ohms Solid Copper, Bare HDPE 1 Aluminum Polyester Tinned Copper PVC, Black 0.274 in [6.96 mm]



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

# LCCA30802/BK



### Connectors

Description	Connector 1	Connector 2	
Туре	1.0/2.3 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, Gold	Brass, Gold	
Outer Conductor Plating Specification	3 µin minimum	3 µin minimum	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100 µin minimum	100 µin minimum	

#### **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.

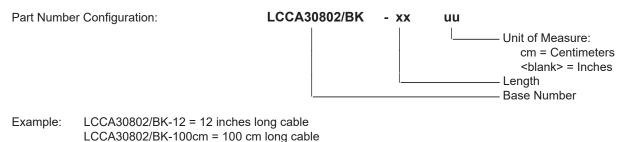


AL AL

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

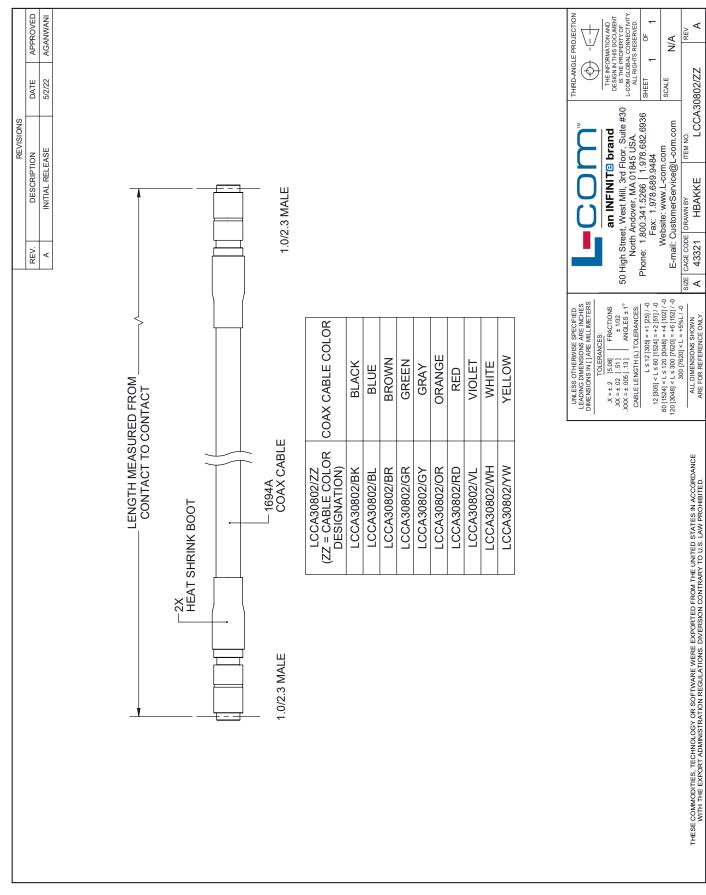
# LCCA30802/BK

#### How to Order



75 Ohm 6G SDI 1.0/2.3 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 document is 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 reserves the right to make such changes as required. Unless otherwise stated, and representative of the part described herein. It may be necessary to make modifications to the part and/or the document to 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

Rev.D