

75 Ohm 12G SDI 1.0/2.3 Male to 1.0/2.3 Male Cable Assembly using 4694R-BK Coax, 1 FT



LCCA30730/BK-FT1

Configuration

- Connector 1: 1.0/2.3 Male
- Connector 2: 1.0/2.3 Male
- Cable Type: Belden 4694R-BK

Features

- Meets SMPTE ST 2082-1
- Backwards Compatible with 2081-1
- 12Gb/s Transmission
- Cost Effective

Applications

- 12G-SDI, Video, and Broadband UHDTV
- Broadband Internet Delivery
- Broadcast A/V
- 4K/8K Video Equipment
- Medical Equipment Requiring High Speed Video
- HD Cameras



Description

L-com's LCCA30730/BK-FT1 is a 75 Ohm 12G SDI 1.0/2.3 male to 1.0/2.3 male cable assembly using 4694R-BK coax, 1 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 Belden 4694R-BK series coax and operates to 12 GHz and enables 12Gb/s data transfer rates for high resolution uncompressed video signal transmission. These products offer 4K and Ultra-HD quality signals that meet SMPTE Standard 2082-1. 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 LCCA30730/BK-FT1 L-com 75 Ohm 12G SDI 1.0/2.3 Male to 1.0/2.3 Male Cable Assembly using 4694R-BK Coax, 1 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	12	GHz
VSWR		1.5:1	
Velocity of Propagation		84.5	%
Group Delay		1.2 [3.94]	ns/ft [ns/m]
Capacitance		15.9 [52.17]	pF/ft [pF/m]
Inductance		0.106 [0.35]	uH/ft [uH/m]
DC Resistance Inner Conductor		6.4 [21]	Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		2.8 [9.19]	Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)		300	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12	GHz
Insertion Loss (Typ.)	0.25	0.26	0.3	0.34	0.43	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	12 in [304.8 mm]
Diameter	0.5 in [12.7 mm]
Weight	0.1 lbs [45.36 g]

Cable

Cable Type	Belden 4694R-BK
Impedance	75 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	HDPE
Number of Shields	1
Shield Layer 1	Aluminum Polyester
Shield Layer 2	Tinned Copper
Jacket Material	PVC, Black
Jacket Diameter	0.274 in [6.96 mm]

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Connectors

Description	Connector 1	Connector 2
Type	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.

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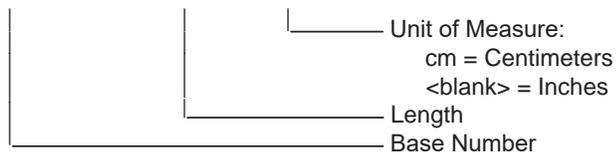


LCCA30730/BK-FT1

How to Order

Part Number Configuration:

LCCA30730/BK - xx uu



Example: LCCA30730/BK-12 = 12 inches long cable
LCCA30730/BK-100cm = 100 cm long cable

75 Ohm 12G SDI 1.0/2.3 Male to 1.0/2.3 Male Cable Assembly using 4694R-BK Coax, 1 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 in-stock 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

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	5/2/22
		APPROVED AGANWANI

LENGTH MEASURED FROM CONTACT TO CONTACT

1.0/2.3 MALE

4694R COAX CABLE

1.0/2.3 MALE

LCCA30730/ZZ (ZZ = CABLE COLOR DESIGNATION)	COAX CABLE COLOR
LCCA30730/BK	BLACK
LCCA30730/BL	BLUE
LCCA30730/GR	GREEN
LCCA30730/OR	ORANGE
LCCA30730/RD	RED
LCCA30730/VL	VIOLET
LCCA30730/WH	WHITE
LCCA30730/YW	YELLOW

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32

.XX = ±.02 [.51] ANGLES ± 1°

.XXX = ±.005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = ±1 [25] / -0

12 [305] < L ≤ 60 [1524] = ±2 [61] / -0

60 [1524] < L ≤ 120 [3048] = ±4 [102] / -0

120 [3048] < L ≤ 300 [7620] = ±6 [152] / -0

300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	HBAKKE	LCCA30730/ZZ	A

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