

GLOBAL CONNECTIVITY SOLUTIONS

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

LCCA30798/BK-FT6

Configuration

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

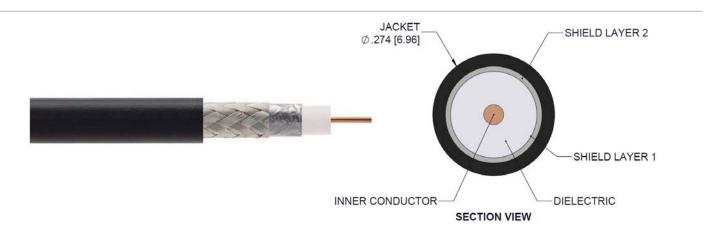
Features

- 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

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L-com's LCCA30798/BK-FT6 is a 75 Ohm 6G SDI BNC male to HD-BNC male cable assembly using 1694A-BK coax, 6 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-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 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/BK-FT6 L-com 75 Ohm 6G SDI BNC Male to HD-BNC Male Cable Assembly using 1694A-BK Coax, 6 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

| Description | Minimum | ТурісаІ | Maximum | Units |
|-------------|---------|---------|---------|-------|
| | | | | |

LCCA30798/BK-FT6 REV 1 | © 2020 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.





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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.) | 0.38 | 0.46 | 0.58 | 0.82 | 1.27 | 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 | 72 in [182.88 cm] 0.5 in [12.7 mm] 0.15 lbs [68.04 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 PE 1 Aluminum Polyester Tinned Copper PVC, Black 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:

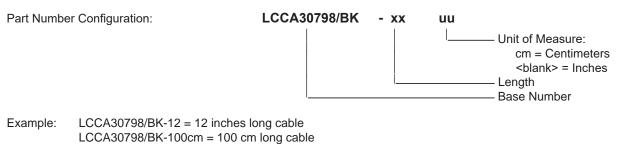
Values at 25°C, sea level.



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How to Order



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

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L-com CAD Drawing