

SMA Male to SMA Female Bulkhead Cable
Assembly using LC141TBJ Coax, 6 FT



LCCA30095-FT6

Configuration

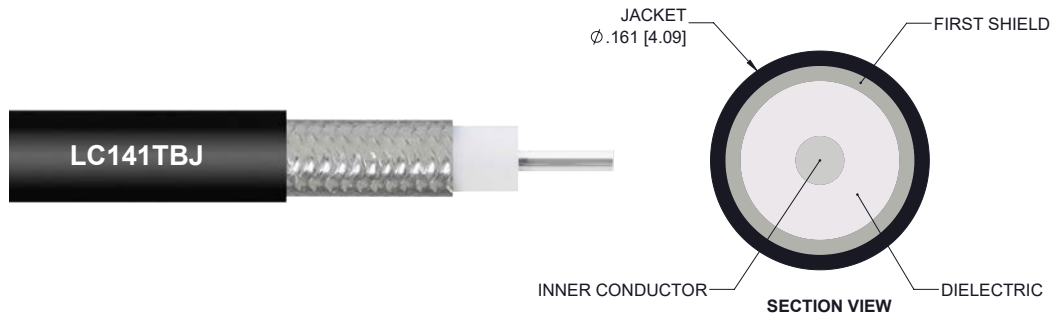
- Connector 1: SMA Male
- Connector 2: SMA Female Bulkhead
- Cable Type: LC141TBJ

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 70% VoP
- Hand Formable
- Tin Filled Copper Braid Outer Conductor
- FEP Jacket

Applications

- General Purpose
- Laboratory Use
- System Interconnect



Description

L-com's LCCA30095-FT6 is a SMA male to SMA female bulkhead cable assembly using LC141TBJ coax, 6 FT and ships same-day. The LC141TBJ coax of this SMA cable uses the PTFE dielectric with a VoP of 70%. These formable RF cable assemblies are a great alternative to expensive semi-rigid assemblies because they can be hand formed to fit specific designs. Our L-com SMA to SMA cable assembly has a male to female gender configuration with formable LC141TBJ series coax and operates to 18 GHz. The jacketed tinned copper braid outer conductor is easily formed by hand with an overall diameter of 0.161 inches and excellent shielding effectiveness greater than 100dB. L-com's RF cable assembly with SMA bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications.

Custom versions of this SMA male to SMA female 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 LCCA30095-FT6 L-com SMA Male to SMA Female Bulkhead Cable Assembly using LC141TBJ Coax, 6 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 18 | GHz |
| Velocity of Propagation | | 70 | | % |
| RF Shielding | 100 | | | dB |
| Group Delay | | 1.43 [4.69] | | ns/ft [ns/m] |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | | 8.23 [27] | | Ohms/1000ft [Ohms/Km] |
| Operating Voltage (AC) | | | 1,900 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 3,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|-----|------|-------|
| Frequency | 1 | 2 | 4.5 | 9 | 18 | GHz |
| Insertion Loss (Max.) | 0.95 | 1.25 | 1.98 | 2.9 | 4.65 | dB |

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Length 72 in [182.88 cm]
Diameter 0.032 in [0.81 mm]

Cable

Cable Type LC141TBJ
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTFE
Number of Shields 0
Outer Conductor Material and Plating Tinned Copper Braid
Outer Conductor Diameter 0.139 in [3.53 mm]
Jacket Material FEP
Jacket Diameter 0.161 in [4.09 mm]

One Time Minimum Bend Radius 0.315 in [8 mm]

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Repeated Minimum Bend Radius 1.575 in [40.01 mm]

Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|----------------------------|------------------------------------|
| Type | SMA Male | SMA Female Bulkhead |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | | Beryllium Copper, Gold over Nickel |
| Dielectric Type | | PTFE |
| Outer Conductor Material and Plating | | Brass, Gold over Nickel |
| Body Material and Plating | Brass, Gold over Nickel | Brass, Gold over Nickel |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Hex Size | 5/16 inch | |
| Torque | 10 in-lbs 1.13 Nm | |

Environmental Specifications

Temperature

Operating Range -65 to +150 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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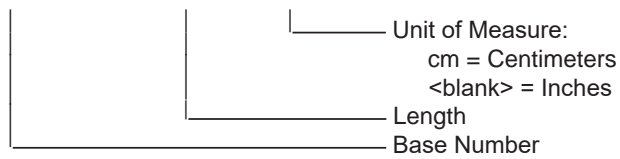


LCCA30095-FT6

How to Order

Part Number Configuration:

LCCA30095 - xx uu



Example: LCCA30095-12 = 12 inches long cable
LCCA30095-100cm = 100 cm long cable

SMA Male to SMA Female Bulkhead Cable Assembly using LC141TBJ 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 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.

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L-com CAD Drawing

