

## SMA Male to N Female Bulkhead Cable Assembly using LC141TB Coax, 6 FT



### LCCA30410-FT6

#### Configuration

- Connector 1: SMA Male
- Connector 2: N Female Bulkhead
- Cable Type: LC141TB

#### Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.9% VoP
- Hand Formable
- Tin Filled Copper Braid Outer Conductor

#### Applications

- General Purpose
- Laboratory Use
- System Interconnect



#### Description

L-com's LCCA30410-FT6 is a SMA male to N female bulkhead cable assembly using LC141TB coax, 6 FT and ships same-day. The LC141TB coax of this SMA cable uses the PTFE dielectric with a VoP of 69.5%. 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 N cable assembly has a male to female gender configuration with formable LC141TB series coax and operates to 10 GHz. The outer conductor is easily formed by hand with an overall diameter of inches and excellent shielding effectiveness greater than 100dB. L-com's RF cable assembly with N 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 LCCA30410-FT6 L-com SMA Male to N Female Bulkhead Cable Assembly using LC141TB Coax, 6 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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**LCCA30410-FT6**

**Electrical Specifications**

| Description             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 10      | GHz          |
| VSWR                    |         |             | 1.45:1  |              |
| Velocity of Propagation |         | 69.5        |         | %            |
| RF Shielding            | 100     |             |         | dB           |
| Group Delay             |         | 1.43 [4.69] |         | ns/ft [ns/m] |
| Capacitance             |         | 29 [95.14]  |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |             | 335     | Vrms         |

**Specifications by Frequency**

| Description           | F1   | F2   | F3  | F4   | F5  | Units |
|-----------------------|------|------|-----|------|-----|-------|
| Frequency             | 0.5  | 1    | 2.5 | 5    | 10  | GHz   |
| Insertion Loss (Max.) | 0.68 | 0.92 | 1.3 | 1.94 | 2.9 | 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 includes an estimated insertion loss of 0.1 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

|          |                     |
|----------|---------------------|
| Length   | 72 in [182.88 cm]   |
| Diameter | 0.81 in [20.57 mm]  |
| Weight   | 0.123 lbs [55.79 g] |

**Cable**

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | LC141TB             |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper, Silver      |
| Dielectric Type                      | PTFE                |
| Number of Shields                    | 1                   |
| Shield Layer 1                       | Tinned Copper Braid |

|                              |                    |
|------------------------------|--------------------|
| One Time Minimum Bend Radius | 0.315 in [8 mm]    |
| Repeated Minimum Bend Radius | 1.57 in [39.88 mm] |

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### Connectors

| Description                        | Connector 1           | Connector 2                |
|------------------------------------|-----------------------|----------------------------|
| Type                               | SMA Male              | N Female Bulkhead          |
| Specification                      | MIL-STD-348A          | MIL-STD-348A               |
| Impedance                          | 50 Ohms               | 50 Ohms                    |
| Contact Material and Plating       | Brass, Gold           | Beryllium Copper, Gold     |
| Contact Plating Specification      | 50µ in. minimum       | 30µ in. minimum            |
| Dielectric Type                    | Teflon                | Teflon                     |
| Body Material and Plating          | Stainless Steel, Gold | Passivated Stainless Steel |
| Body Plating Specification         | 10µ in. minimum       |                            |
| Coupling Nut Material and Plating  | Brass, Nickel         |                            |
| Coupling Nut Plating Specification | 100µ in. minimum      |                            |
| Hex Size                           | 5/16 in               |                            |
| Torque                             | 5 in-lbs 0.57 Nm      |                            |

### Environmental Specifications

#### Temperature

Operating Range -55 to +125 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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## LCCA30410-FT6

### How to Order

Part Number Configuration:

**LCCA30410 - xx uu**



Example: LCCA30410-12 = 12 inches long cable  
LCCA30410-100cm = 100 cm long cable

SMA Male to N Female Bulkhead Cable Assembly using LC141TB 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.

# SMA Male to N Female Bulkhead Cable Assembly using LC141TB Coax, 6 FT

## L-com CAD Drawing

