

# SMA Female to TNC Female Bulkhead Cable Assembly using LC141TB Coax, 5 FT

#### LCCA30433-FT5

#### Configuration

· Connector 1: SMA Female

Connector 2: TNC Female Bulkhead

Cable Type: LC141TB

#### **Features**

· Max Frequency 6 GHz

Shielding Effectivity > 100dB

• PTFE Dielectric with 69.9% VoP

#### **Applications**

- General Purpose
- · Laboratory Use

- Hand Formable
- Tin Filled Copper Braid Outer Conductor
- · System Interconnect



#### Description

L-com's LCCA30433-FT5 is a SMA female to TNC female bulkhead cable assembly using LC141TB coax, 5 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 TNC cable assembly has a female to female gender configuration with formable LC141TB series coax and operates to 6 GHz. The tinned copper braid outer conductor is easily formed by hand with an overall diameter of inches and excellent shielding effectiveness greater than 110dB. L-com's RF cable assembly with TNC 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 female 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 LCCA30433-FT5 L-com SMA Female to TNC Female Bulkhead Cable Assembly using LC141TB Coax, 5 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



#### SMA Female to TNC Female Bulkhead Cable Assembly using LC141TB Coax, 5 FT



#### LCCA30433-FT5

#### **Electrical Specifications**

| Description              | Minimum | Typical     | Maximum | Units                 |
|--------------------------|---------|-------------|---------|-----------------------|
| Frequency Range          | DC      |             | 6       | GHz                   |
| VSWR                     |         |             | 1.45:1  |                       |
| Velocity of Propagation  |         | 69.5        |         | %                     |
| RF Shielding             | 110     |             |         | dB                    |
| Capacitance              |         | 29 [95.14]  |         | pF/ft [pF/m]          |
| DC Resistance Inner Cond | uctor   | 7.8 [25.59] |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Cond | ductor  | 5.5 [18.04] |         | Ohms/1000ft [Ohms/Km] |

#### **Specifications by Frequency**

| Description           | F1  | F2  | F3   | F4  | F5 | Units |
|-----------------------|-----|-----|------|-----|----|-------|
| Frequency             | 0.5 | 1   | 2.5  | 6   |    | GHz   |
| Insertion Loss (Max.) | 0.6 | 0.8 | 1.12 | 1.8 |    | 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 60 in [152.4 cm] Diameter 0.69 in [17.53 mm]

#### Cable

LC141TB Cable Type Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating

Copper, Silver Dielectric Type **PTFE** 

Outer Conductor Material and Plating Tinned Copper Braid

Repeated Minimum Bend Radius 0.625 in [15.88 mm]



SMA Female to TNC Female Bulkhead Cable Assembly using LC141TB Coax, 5 FT



#### LCCA30433-FT5

#### **Connectors**

| Connector 1                        | Connector 2  |
|------------------------------------|--|
| SMA Female                         | TNC Female Bulkhead  |
| 50 Ohms                            | 50 Ohms  |
| Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel                         |
| PTFE                               | PTFE   |
| Brass, Gold over Nickel            | Brass, Nickel  |
|                                    | SMA Female 50 Ohms Beryllium Copper, Gold over Nickel PTFE |

#### **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.

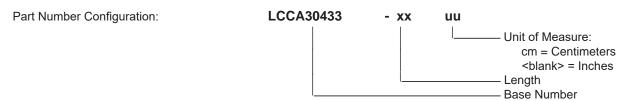


SMA Female to TNC Female Bulkhead Cable Assembly using LC141TB Coax, 5 FT



#### LCCA30433-FT5

#### **How to Order**



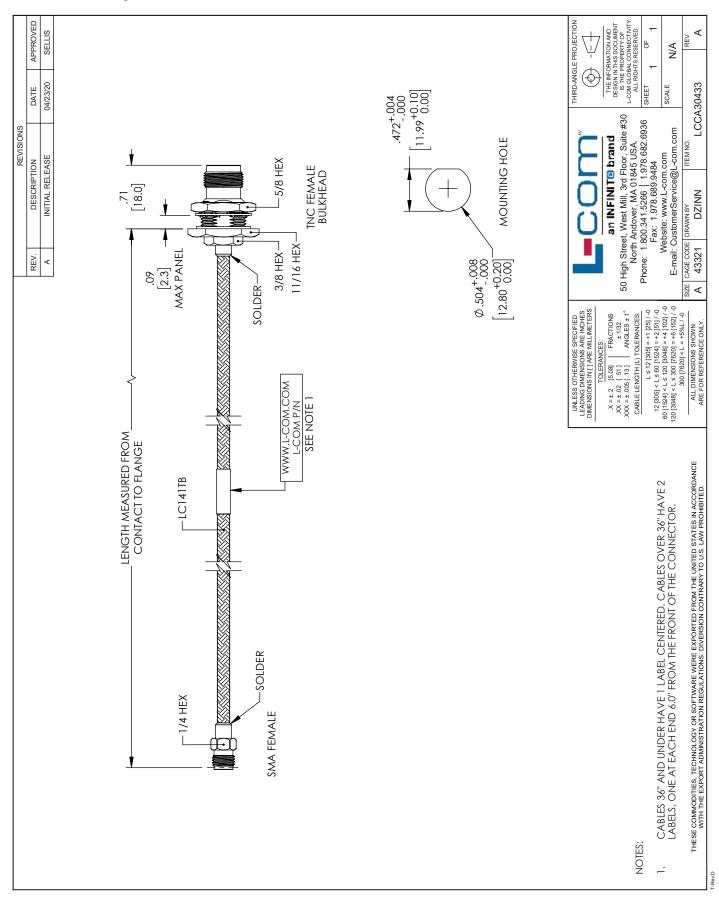
Example: LCCA30433-12 = 12 inches long cable

LCCA30433-100cm = 100 cm long cable

SMA Female to TNC Female Bulkhead Cable Assembly using LC141TB Coax, 5 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**



## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### L-Com:

LCCA30433-FT5 LCCA31213-FT4