

# LCCA30487-FT5



### Configuration

- · Connector 1: N Female
- Connector 2: SMA Female Bulkhead
- Cable Type: LC141TBJ

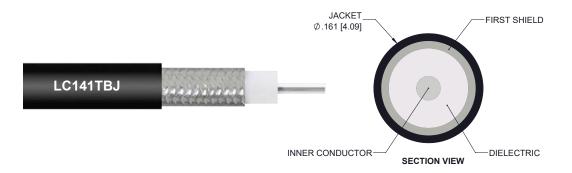
#### **Features**

- Max Frequency 10 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 LCCA30487-FT5 is a N female to SMA female bulkhead cable assembly using LC141TBJ coax, 5 FT and ships same-day. The LC141TBJ coax of this N 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 N to SMA cable assembly has a female to female gender configuration with formable LC141TBJ series coax and operates to 10 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 N female to N 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 LCCA30487-FT5 L-com N Female to SMA Female Bulkhead Cable Assembly using LC141TBJ Coax, 5 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



#### LCCA30487-FT5

#### **Electrical Specifications**

| Description              | Minimum | Typical     | Maximum | Units                 |
|--------------------------|---------|-------------|---------|-----------------------|
| Frequency Range          | DC      |             | 10      | GHz                   |
| VSWR                     |         |             | 1.45:1  |                       |
| Velocity of Propagation  |         | 70          |         | %                     |
| RF Shielding             | 100     |             |         | dB                    |
| Group Delay              |         | 1.43 [4.69] |         | ns/ft [ns/m]          |
| Capacitance              |         | 29 [95.14]  |         | pF/ft [pF/m]          |
| DC Resistance Inner Cond | ductor  | 8.23 [27]   |         | Ohms/1000ft [Ohms/Km] |

# **Specifications by Frequency**

| F1  | F2  | F3    | F4        | F5          | Units          |
|-----|-----|-------|-----------|-------------|----------------|
| 0.5 | 1   | 2.5   | 5         | 10          | GHz            |
| 0.6 | 0.8 | 1.12  | 1.65      | 2.45        | dB             |
|     | 0.0 | 0.5 1 | 0.5 1 2.5 | 0.5 1 2.5 5 | 0.5 1 2.5 5 10 |

#### **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
 0.63 in [16 mm]

#### Cable

Cable Type LC141TBJ
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Sil

Inner Conductor Material and Plating Copper, Silver Dielectric Type PTFE

Outer Conductor Material and Plating Tinned Copper Braid

Jacket MaterialFEP, BlackJacket Diameter0.161 in [4.09 mm]

One Time Minimum Bend Radius 0.315 in [8 mm]
Repeated Minimum Bend Radius 1.575 in [40.01 mm]



# LCCA30487-FT5

#### **Connectors**

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

# **Environmental Specifications**

Temperature

Operating Range -65 to +150 deg CStorage Range +10 to +35 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.



# LCCA30487-FT5



#### **How to Order**



Example: LCCA30487-12 = 12 inches long cable

LCCA30487-100cm = 100 cm long cable

N Female to SMA Female Bulkhead Cable Assembly using LC141TBJ 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**

