# N Male to SMA Female Cable Assembly using LC141TBJ Coax, 3 FT

## LCCA30481-FT3

### Configuration

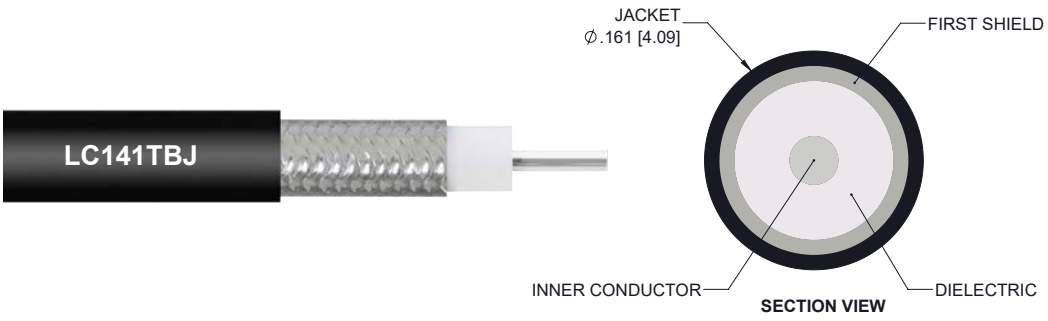
- Connector 1: N Male
- Connector 2: SMA Female
- Cable Type: LC141TBJ

### Features

- Max Frequency 11 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 LCCA30481-FT3 is a N male to SMA female cable assembly using LC141TBJ coax, 3 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 male to female gender configuration with formable LC141TBJ series coax and operates to 11 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.

Custom versions of this N male 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 LCCA30481-FT3 L-com N Male to SMA Female Cable Assembly using LC141TBJ Coax, 3 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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## LCCA30481-FT3

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 11 | 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 Conductor | | 8.23 [27] | | Ohms/1000ft [Ohms/Km] |

### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.5 | 1 | 2.5 | 5 | 11 | GHz |
| Insertion Loss (Max.) | 0.44 | 0.56 | 0.75 | 1.07 | 1.61 | 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 | 36 in [914.4 mm] |
| Diameter | 0.79 in [20.07 mm] |

**Cable**

| | |
|---|---|
| Cable Type | LC141TBJ |
| 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 |
| Jacket Material | FEP, Black |
| Jacket Diameter | 0.161 in [4.09 mm] |
| One Time Minimum Bend Radius | 0.315 in [8 mm] |
| Repeated Minimum Bend Radius | 1.575 in [40.01 mm] |

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### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | N Male | SMA Female |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Gold over Nickel |
| Coupling Nut Material and Plating | Brass, Nickel | |

### Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -65 to +150 deg C |
| Storage 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.

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## LCCA30481-FT3

### How to Order

Part Number Configuration: **LCCA30481 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- LCCA30481 — Base Number

Example: LCCA30481-12 = 12 inches long cable
LCCA30481-100cm = 100 cm long cable

N Male to SMA Female Cable Assembly using LC141TBJ Coax, 3 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.

## L-com CAD Drawing