



LCCA30432-FT2

Configuration

Connector 1: SMA Female
Connector 2: TNC Female
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 LCCA30432-FT2 is a SMA female to TNC female cable assembly using LC141TB coax, 2 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.

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 LCCA30432-FT2 L-com SMA Female to TNC Female Cable Assembly using LC141TB Coax, 2 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





LCCA30432-FT2

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.) | 0.36 | 0.44 | 0.57 | 0.84 | | 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

24 in [609.6 mm] Length Diameter 0.472 in [11.99 mm]

Cable

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

Dielectric Type **PTFE**

Outer Conductor Material and Plating Tinned Copper Braid

Repeated Minimum Bend Radius 0.625 in [15.88 mm]





LCCA30432-FT2

Connectors

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

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

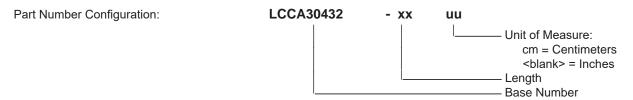
• Values at 25°C, sea level.





LCCA30432-FT2

How to Order



Example: LCCA30432-12 = 12 inches long cable LCCA30432-100cm = 100 cm long cable

SMA Female to TNC Female Cable Assembly using LC141TB Coax, 2 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

