

BNC Female to SMA Female Cable Assembly using LC141TB Coax, 10 FT



**LCCA30404-FT10**

**Configuration**

- Connector 1: BNC Female
- Connector 2: SMA Female
- Cable Type: LC141TB

**Features**

- Max Frequency 2 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 LCCA30404-FT10 is a BNC female to SMA female cable assembly using LC141TB coax, 10 FT and ships same-day. The LC141TB coax of this BNC 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 BNC to SMA cable assembly has a female to female gender configuration with formable LC141TB series coax and operates to 2 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 BNC female to BNC 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 LCCA30404-FT10 L-com BNC Female to SMA Female Cable Assembly using LC141TB Coax, 10 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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## LCCA30404-FT10

### Electrical Specifications

| Description                   | Minimum | Typical     | Maximum | Units                 |
|-------------------------------|---------|-------------|---------|-----------------------|
| Frequency Range               | DC      |             | 2       | 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 Conductor |         | 7.8 [25.59] |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 5.5 [18.04] |         | Ohms/1000ft [Ohms/Km] |

### Specifications by Frequency

| Description           | F1  | F2  | F3  | F4 | F5 | Units |
|-----------------------|-----|-----|-----|----|----|-------|
| Frequency             | 0.5 | 1   | 2   |    |    | GHz   |
| Insertion Loss (Max.) | 1   | 1.4 | 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 120 in [304.8 cm]

#### Cable

Cable Type LC141TB  
 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]

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## LCCA30404-FT10

### Connectors

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

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## LCCA30404-FT10

### How to Order

Part Number Configuration:

**LCCA30404 - xx uu**



Example: LCCA30404-12 = 12 inches long cable  
LCCA30404-100cm = 100 cm long cable

BNC Female to SMA Female Cable Assembly using LC141TB Coax, 10 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.

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## L-com CAD Drawing

| REVISIONS |                 | DATE       | APPROVED |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     |            |          |
| A         | INITIAL RELEASE | 04/27/2020 | SELLIS   |

  

LENGTH MEASURED FROM CONTACT TO CONTACT

.51 [13] ACROSS FLATS

7/16 HEX

BNC FEMALE

SOLDER

LC141TB

WWW.L-COM.COM  
L-COMP/P/N  
SEE NOTE 1

SMA FEMALE

SOLDER

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

ITEM NO. LCCA30404

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CAGE CODE A 43321

SIZE A

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [ .508 ]     FRACTIONS ±1/32

.XX = ±.02 [ .51 ]     ANGLES ± 1°

.XXX = ±.005 [ .13 ]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = ±1 [25] / -0

60 [1524] < L ≤ 120 [3048] = ±4 [102] / -0

120 [3048] < L ≤ 300 [7620] = +6 [152] / -0

300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE FRONT OF THE CONNECTOR.

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