

BNC Female to TNC Male Right Angle Cable
Assembly using LC141TBJ Coax, 2 FT



LCCA30527-FT2

Configuration

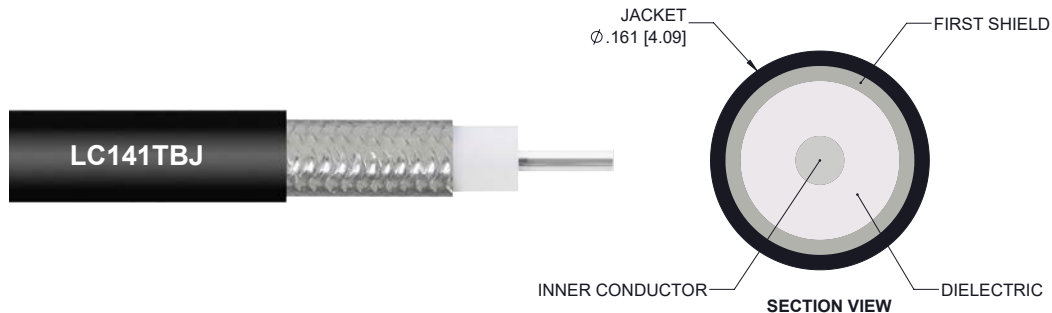
- Connector 1: BNC Female
- Connector 2: TNC Male Right Angle
- Cable Type: LC141TBJ

Features

- Max Frequency 2 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 70.0% VoP
- Hand Formable
- Tin Filled Copper Braid Outer Conductor
- FEP Jacket

Applications

- General Purpose
- Laboratory Use
- System Interconnect



Description

L-com's LCCA30527-FT2 is a BNC female to TNC male right angle cable assembly using LC141TBJ coax, 2 FT and ships same-day. The LC141TBJ coax of this BNC 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 BNC to TNC cable assembly has a female to male gender configuration with formable LC141TBJ series coax and operates to 2 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. This right angle TNC cable interface on the LC141TBJ coax allows for easier connections in tight spaces.

Custom versions of this BNC female to BNC male 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 LCCA30527-FT2 L-com BNC Female to TNC Male Right Angle Cable Assembly using LC141TBJ Coax, 2 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 2 | 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 | | 7.28 [23.88] | | 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 (Typ.) | 0.37 | 0.45 | 0.54 | | | 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 for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length 24 in [609.6 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 | BNC Female | TNC Male Right Angle |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | | Brass, Gold over Nickel |
| Dielectric Type | | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Material and Plating | | 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:

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LCCA30527-FT2

How to Order

Part Number Configuration:

LCCA30527 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: LCCA30527-12 = 12 inches long cable
LCCA30527-100cm = 100 cm long cable

BNC Female to TNC Male Right Angle Cable Assembly using LC141TBJ 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 implement 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 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 implement 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.

BNC Female to TNC Male Right Angle Cable Assembly using LC141TBJ Coax, 2 FT

L-com CAD Drawing

| REVISIONS | | |
|-----------|-----------------|--------------------|
| REV. | DESCRIPTION | DATE |
| A | INITIAL RELEASE | 05/11/2020 |
| | | APPROVED SELLIS |

LENGTH MEASURED FROM CONTACT TO CONTACT

TNC MALE RIGHT ANGLE

2X HEAT SHRINK SLEEVE

LC141TBJ

1/2" FLATS

BNC FEMALE

LABEL

WWW.L-COM.COM
L-COM P/N
(SEE NOTE 1)

NOTES:

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

TOLERANCES:

| | |
|----------------------|-------------|
| X = ± .2 [.06] | FRACTIONS |
| .XX = ± .02 [.51] | ± 1/32 |
| .XXX = ± .005 [.13] | ANGLES ± 1° |

CABLE LENGTH (L) TOLERANCES:

| | |
|-----------------------------|-----------------|
| L ≤ 12 [305] | ± .1 [25] / -0 |
| 12 [305] < L ≤ 60 [1524] | ± .2 [51] / -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.

| | | | |
|----------------------------|---|--|--------------------|
| L-com TM | <p>an INFINITE brand</p> <p>50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA</p> <p>Phone: 1.800.341.5266 1.978.682.6936 Fax: 1.978.689.9484 Website: www.L-com.com E-mail: CustomerService@L-com.com</p> | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> | |
| SIZE A | CAGE CODE 43321 | DRAWN BY DFRISIELLO | ITEM NO. LCCA30527 |
| | | | REV A |

T-Rev D