

TNC Male Right Angle to TNC Female Bulkhead Cable  
Assembly using LC141TB Coax, 10 FT



**LCCA30088-FT10**

**Configuration**

- Connector 1: TNC Male Right Angle
- Connector 2: TNC Female Bulkhead
- Cable Type: LC141TB

**Features**

- Max Frequency 6 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 LCCA30088-FT10 is a TNC male right angle to TNC female bulkhead cable assembly using LC141TB coax, 10 FT and ships same-day. The LC141TB coax of this TNC 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 TNC to TNC cable assembly has a male 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 0.141 inches and excellent shielding effectiveness greater than 110dB. L-com's RF cable assembly with TNC 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. This right angle TNC cable interface on the LC141TB coax allows for easier connections in tight spaces.

Custom versions of this TNC male to TNC 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 LCCA30088-FT10 L-com TNC Male Right Angle to TNC Female Bulkhead 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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**Electrical Specifications**

| Description                   | Minimum | Typical      | Maximum | Units                 |
|-------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range               | DC      |              | 6       | GHz                   |
| Velocity of Propagation       |         | 69.5         |         | %                     |
| RF Shielding                  | 110     |              |         | dB                    |
| Capacitance                   |         | 29.4 [96.46] |         | 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] |
| Operating Voltage (AC)        |         |              | 170     | Vrms                  |

**Specifications by Frequency**

| Description           | F1   | F2  | F3  | F4   | F5   | Units |
|-----------------------|------|-----|-----|------|------|-------|
| Frequency             | 0.25 | 0.5 | 1   | 2.5  | 6    | GHz   |
| Insertion Loss (Max.) | 0.8  | 1   | 1.4 | 2.04 | 3.42 | 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 is estimated as 0.2 dB per right angle connector and 0.1 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Length 120 in [304.8 cm]  
Diameter 0.025 in [0.64 mm]

**Cable**

Cable Type LC141TB  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PTFE  
Number of Shields 0  
Outer Conductor Material and Plating Tinned Copper Braid  
Outer Conductor Diameter 0.141 in [3.58 mm]  
  
Repeated Minimum Bend Radius 0.625 in [15.88 mm]

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## LCCA30088-FT10

### Connectors

| Description                          | Connector 1             | Connector 2                        |
|--------------------------------------|-------------------------|------------------------------------|
| Type                                 | TNC Male Right Angle    | TNC Female Bulkhead                |
| Impedance                            | 50 Ohms                 | 50 Ohms                            |
| Contact Material and Plating         | Brass, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Dielectric Type                      | PTFE                    | PTFE                               |
| Outer Conductor Material and Plating |                         | Brass, Nickel                      |
| 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:

- Values at 25°C, sea level.

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**LCCA30088-FT10**

**How to Order**

Part Number Configuration:

**LCCA30088 - xx uu**



Example: LCCA30088-12 = 12 inches long cable  
LCCA30088-100cm = 100 cm long cable

TNC Male Right Angle to TNC Female Bulkhead 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.

# TNC Male Right Angle to TNC Female Bulkhead Cable Assembly using LC141TB Coax, 10 FT

## L-com CAD Drawing

| REVISIONS |                 |            |
|-----------|-----------------|------------|
| REV.      | DESCRIPTION     | DATE       |
| A         | INITIAL RELEASE | 01/31/2020 |
|           | APPROVED        | SELLIS     |

  

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(SEE NOTE 1)

RECOMMENDED  
PANEL CUTOUT

TNC MALE RIGHT ANGLE

TNC FEMALE BULKHEAD

LENGTH MEASURED  
FROM CONTACT TO FLANGE

LC141TB FORMABLE CABLE

LABEL

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

**TOLERANCES:**

|                   |             |
|-------------------|-------------|
| .X ± .2 [5.08]    | 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 [61] / -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.

THIRD-ANGLE PROJECTION

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DESIGN IN THIS DOCUMENT  
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SHEET 1 OF 1

SCALE N/A

REV A

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SIZE A CAGE CODE [DRAWN BY] PART NUMBER LCCA30088

**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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