

TNC Male Right Angle to TNC Male Right Angle Cable Assembly using LC085TBJ Coax, 2 FT



**LCCA30145-FT2**

**Configuration**

- Connector 1: TNC Male Right Angle
- Connector 2: TNC Male Right Angle
- Cable Type: LC085TBJ

**Features**

- Max Frequency 6 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.5% VoP
- Hand Formable
- Tin Filled Copper Composite Braid Outer Conductor
- FEP Jacket

**Applications**

- General Purpose
- Laboratory Use
- System Interconnect



**Description**

L-com's LCCA30145-FT2 is a TNC male right angle to TNC male right angle cable assembly using LC085TBJ coax, 2 FT and ships same-day. The LC085TBJ 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 male gender configuration with formable LC085TBJ series coax and operates to 6 GHz. The jacketed tinned copper composite braid outer conductor is easily formed by hand with an overall diameter of 0.105 inches and excellent shielding effectiveness greater than 100dB. This right angle TNC cable interface on the LC085TBJ coax allows for easier connections in tight spaces.

Custom versions of this TNC male to TNC 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 LCCA30145-FT2 L-com TNC Male Right Angle to TNC Male Right Angle Cable Assembly using LC085TBJ Coax, 2 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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## LCCA30145-FT2

### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units                 |
|-------------------------------|---------|---------------|---------|-----------------------|
| Frequency Range               | DC      |               | 6       | GHz                   |
| Velocity of Propagation       |         | 69.5          |         | %                     |
| RF Shielding                  | 100     |               |         | dB                    |
| Group Delay                   |         | 1.43 [4.69]   |         | ns/ft [ns/m]          |
| Capacitance                   |         | 29.4 [96.46]  |         | pF/ft [pF/m]          |
| DC Resistance Inner Conductor |         | 65.7 [215.55] |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 10.2 [33.46]  |         | Ohms/1000ft [Ohms/Km] |
| Operating Voltage (AC)        |         |               | 1,500   | Vrms                  |

### Specifications by Frequency

| Description           | F1   | F2  | F3   | F4  | F5   | Units |
|-----------------------|------|-----|------|-----|------|-------|
| Frequency             | 0.25 | 0.5 | 1    | 2.5 | 6    | GHz   |
| Insertion Loss (Max.) | 0.63 | 0.7 | 0.85 | 1.1 | 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 is estimated as 0.2 dB per right angle connector.

### Mechanical Specifications

#### Cable Assembly

Length 24 in [609.6 mm]  
Diameter 0.105 in [2.67 mm]

#### Cable

Cable Type LC085TBJ  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 0  
Outer Conductor Material and Plating Tinned Copper Composite Braid  
Outer Conductor Diameter 0.085 in [2.16 mm]  
Jacket Material FEP  
Jacket Diameter 0.105 in [2.67 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]

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## LCCA30145-FT2

Repeated Minimum Bend Radius

0.787 in [19.99 mm]

### Connectors

| Description                       | Connector 1             | Connector 2             |
|-----------------------------------|-------------------------|-------------------------|
| Type                              | TNC Male Right Angle    | TNC Male Right Angle    |
| Impedance                         | 50 Ohms                 | 50 Ohms                 |
| Contact Material and Plating      | Brass, Gold over Nickel | Brass, Gold over Nickel |
| Dielectric Type                   | PTFE                    | PTFE                    |
| Body Material and Plating         | Brass, Nickel           | Brass, Nickel           |
| Coupling Nut Material and Plating | Brass, 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.

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## LCCA30145-FT2

### How to Order

Part Number Configuration:

**LCCA30145 - xx uu**



Example: LCCA30145-12 = 12 inches long cable  
LCCA30145-100cm = 100 cm long cable

TNC Male Right Angle to TNC Male Right Angle Cable Assembly using LC085TBJ 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.

# TNC Male Right Angle to TNC Male Right Angle Cable Assembly using LC085TBJ Coax, 2 FT

## L-com CAD Drawing

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

  

TNC MALE RIGHT ANGLE

TNC MALE RIGHT ANGLE

LENGTH MEASURED FROM CONTACT TO CONTACT

2X HEAT SHRINK, BLACK

LC085TBJ FORMABLE CABLE

LABEL

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

TNC MALE RIGHT ANGLE

TNC MALE RIGHT ANGLE

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

REV A

PART NUMBER LCCA30145

DRAWN BY MVEERAPPAN

CAGE CODE A

SIZE A

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

TOLERANCES:

.X ± .2 [ .51 ] FRACTIONS ± 1/32

.XX ± .02 [ .51 ] ANGLES ± 1°

.XXX ± .005 [ .13 ] 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.

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.

NOTES:

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