

N Male Right Angle to N Female Bulkhead Cable Assembly using LC141TBJ Coax, 1.5 FT

LCCA30102-FT1.5



Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Female Bulkhead
- Cable Type: LC141TBJ

Features

- Max Frequency 11 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 70% VoP
- Hand Formable
- Tin Filled Copper Braid Outer Conductor
- FEP Jacket

Applications

- General Purpose
- Laboratory Use
- System Interconnect



Description

L-com's LCCA30102-FT1.5 is a N male right angle to N female bulkhead cable assembly using LC141TBJ coax, 1.5 FT and ships same-day. The LC141TBJ coax of this N 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 N to N cable assembly has a male to female gender configuration with formable LC141TBJ series coax and operates to 11 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. L-com's RF cable assembly with N 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 N cable interface on the LC141TBJ coax allows for easier connections in tight spaces.

Custom versions of this N male to N 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 LCCA30102-FT1.5 L-com N Male Right Angle to N Female Bulkhead Cable Assembly using LC141TBJ Coax, 1.5 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

N Male Right Angle to N Female Bulkhead Cable
Assembly using LC141TBJ Coax, 1.5 FT

LCCA30102-FT1.5



Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 11 | GHz |
| Velocity of Propagation | | 70 | | % |
| 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 | | 8.23 [27] | | Ohms/1000ft [Ohms/Km] |
| Operating Voltage (AC) | | | 1,900 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 3,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|-----|------|------|-------|
| Frequency | 0.5 | 1 | 2.5 | 5 | 11 | GHz |
| Insertion Loss (Max.) | 0.33 | 0.39 | 0.5 | 0.68 | 0.98 | 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 straight connector.

Mechanical Specifications

Cable Assembly

| | |
|----------|--------------------|
| Length | 18 in [457.2 mm] |
| Diameter | 0.032 in [0.81 mm] |

Cable

| | |
|--------------------------------------|---------------------|
| Cable Type | LC141TBJ |
| 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 | 0.139 in [3.53 mm] |
| Jacket Material | FEP |
| Jacket Diameter | 0.161 in [4.09 mm] |
| One Time Minimum Bend Radius | 0.315 in [8 mm] |

N Male Right Angle to N Female Bulkhead Cable
Assembly using LC141TBJ Coax, 1.5 FT



LCCA30102-FT1.5

Repeated Minimum Bend Radius

1.575 in [40.01 mm]

Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|-------------------------|-----------------------------------|
| Type | N Male Right Angle | N Female Bulkhead |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold over Nickel | Phosphor Bronze, 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

-65 to +150 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

N Male Right Angle to N Female Bulkhead Cable Assembly using LC141TBJ Coax, 1.5 FT



LCCA30102-FT1.5

How to Order

Part Number Configuration:

LCCA30102

- **xx**

uu

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

Example: LCCA30102-12 = 12 inches long cable
LCCA30102-100cm = 100 cm long cable

N Male Right Angle to N Female Bulkhead Cable Assembly using LC141TBJ Coax, 1.5 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.

N Male Right Angle to N Female Bulkhead Cable Assembly using LC141TBJ Coax, 1.5 FT

L-com CAD Drawing

