

N Female Bulkhead to TNC Male Cable Assembly using LC141TB Coax, 1.5 FT

# LCCA30456-FT1.5



#### Configuration

· Connector 1: N Female Bulkhead

Connector 2: TNC MaleCable Type: LC141TB

#### **Features**

· Max Frequency 6 GHz

Shielding Effectivity > 100dB

• PTFE Dielectric with 69.9% VoP

#### **Applications**

- General Purpose
- · Laboratory Use

- Hand Formable
- Tin Filled Copper Braid Outer Conductor
- · System Interconnect



#### Description

L-com's LCCA30456-FT1.5 is a N female bulkhead to TNC male cable assembly using LC141TB coax, 1.5 FT and ships same-day. The LC141TB coax of this N 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 N to TNC cable assembly has a female to male 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 inches and excellent shielding effectiveness greater than 110dB. 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.

Custom versions of this N female to N 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 LCCA30456-FT1.5 L-com N Female Bulkhead to TNC Male Cable Assembly using LC141TB Coax, 1.5 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
VSWR			1.45:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Con	nductor	7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Cor	nductor	5.5 [18.04]		Ohms/1000ft [Ohms/Km]

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	6		GHz
Insertion Loss (Max.)	0.32	0.38	0.48	0.68		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**

18 in [457.2 mm] Length Diameter 0.866 in [22 mm]

#### Cable

LC141TB Cable Type 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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#### **Connectors**

Description	Connector 1	Connector 2		
Туре	N Female Bulkhead	TNC Male		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Phosphor Bronze, 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		

### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

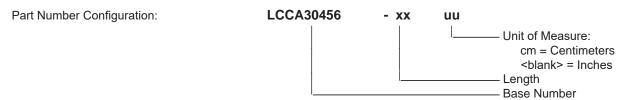
• Values at 25°C, sea level.



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#### **How to Order**



Example: LCCA30456-12 = 12 inches long cable LCCA30456-100cm = 100 cm long cable

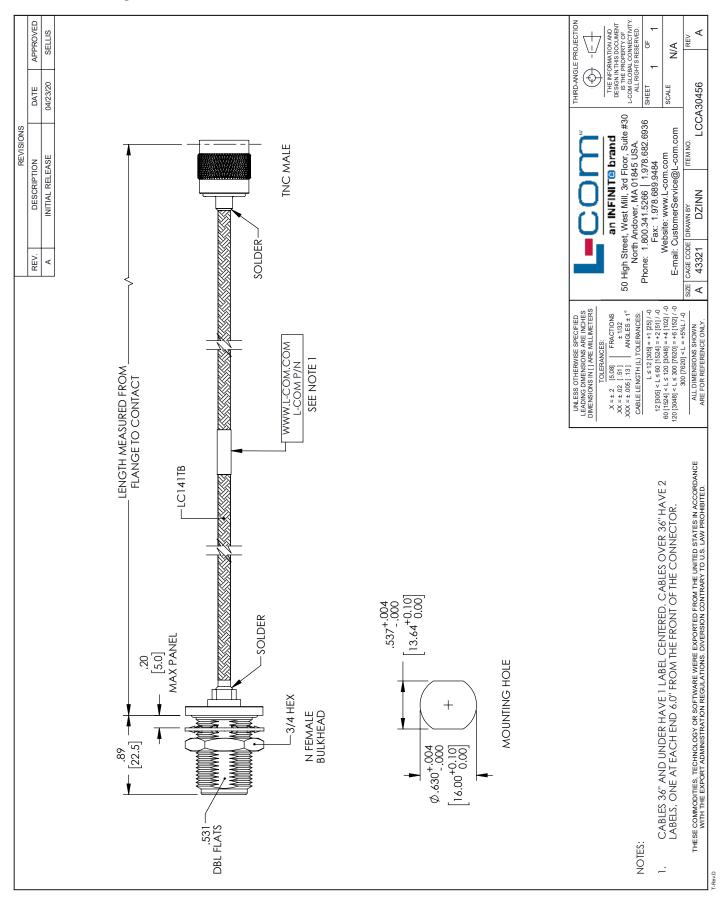
N Female Bulkhead to TNC Male Cable Assembly using LC141TB Coax, 1.5 FT from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning

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.

and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active

# **L-com CAD Drawing**



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