

# **GLOBAL CONNECTIVITY SOLUTIONS**

BNC Female Bulkhead to TNC Male Cable Assembly using LC141TB Coax, 1 FT

# LCCA30460-FT1

#### Configuration

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

#### **Features**

- Max Frequency 1 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

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L-com's LCCA30460-FT1 is a BNC female bulkhead to TNC male cable assembly using LC141TB coax, 1 FT and ships same-day. The LC141TB coax of this BNC 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 BNC to TNC cable assembly has a female to male gender configuration with formable LC141TB series coax and operates to 1 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 BNC 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 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 LCCA30460-FT1 L-com BNC Female Bulkhead to TNC Male Cable Assembly using LC141TB Coax, 1 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



BNC Female Bulkhead to TNC Male Cable Assembly using LC141TB Coax, 1 FT



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## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
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	ductor	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	500	1,000				MHz
Insertion Loss (Max.)	0.28	0.32				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 Length	12 in [304.8 mm]		
Cable			
Cable Type	LC141TB		
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	BNC Female Bulkhead	TNC Male
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:

Values at 25°C, sea level.

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# LCCA30460-FT1

#### How to Order

Part Number Configuration: LCCA30460 - xx uu

Example: LCCA30460-12 = 12 inches long cable LCCA30460-100cm = 100 cm long cable

BNC Female Bulkhead to TNC Male Cable Assembly using LC141TB Coax, 1 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications 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 marke 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.



Unit of Measure: cm = Centimeters <blank> = Inches

Length Base Number

#### THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. APPROVED THIRD-ANGLE PROJECTION SELLIS ∢ Ļ. REV Ь A/A ~ $( \mathbf{\Phi} )$ 04/23/20 LCCA30460 DATE SHEET SCALE $\begin{bmatrix} 12.19 + 0.10 \\ 0.00 \end{bmatrix}$ 50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 | 1.978.682.6936 Fax: 1.978.689.9484 .480<sup>+.004</sup> REVISIONS E-mail: CustomerService@L-com.com an INFINIT® brand ITEM NO. Website: www.L-com.com -5/8 HEX INITIAL RELEASE DESCRIPTION ର MOUNTING HOLE 20.4 BNC FEMALE BULKHEAD 80. NN BY DZINN +DRA 11/16 HEX-CAGE CODE 43321 MAX PANEL REV. ∢ .23 [5.8] ۷ IZE **SOLDER** Ø.504<sup>+.008</sup> $\left[12.80^{+0.20}\right]$ L = 12 [305] = +1 [25] / -0 12 [305] - L = 200 [314] = -2 [51] / -0 60 [1224] - L = 120 [3048] = +4 [102] / -0 120 [3048] - L = 300 [7620] = +6 [152] / -0 300 [7620] = L = 5% L / -0 ALL DIMENSIONS SHOWN ARE POR REFERENCE ONLY. ± 1/32 ANGLES ± 1° UNLESS OT HERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS ERANCES: 08] | FRACTIONS CABLE LENGTH (L) TOLERANCES. $X = \pm .2$ [5.08] $XX = \pm .02$ [.51] $XXX = \pm .005$ [.13] WWW.L-COM.COM L-COM P/N SEE NOTE 1 LENGTH MEASURED FROM CONTACT TO FLANGE THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED. 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. LC141TB SOLDER INC MALE

## L-com CAD Drawing

NOTES: 1.

# **Mouser Electronics**

Authorized Distributor

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