

# **GLOBAL CONNECTIVITY SOLUTIONS**

TNC Male Right Angle to TNC Female Bulkhead Cable Assembly using LC085TB Coax, 4 FT

# LCCA30128-FT4

#### Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: TNC Female Bulkhead
- Cable Type: LC085TB

#### **Features**

- Max Frequency 6 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.5% VoP

#### **Applications**

- General Purpose
- Laboratory Use

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



#### Description

L-com's LCCA30128-FT4 is a TNC male right angle to TNC female bulkhead cable assembly using LC085TB coax, 4 FT and ships same-day. The LC085TB 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 LC085TB series coax and operates to 6 GHz. The tinned copper composite braid outer conductor is easily formed by hand with an overall diameter of 0.085 inches and excellent shielding effectiveness greater than 100dB. 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 LC085TB 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 LCCA30128-FT4 L-com TNC Male Right Angle to TNC Female Bulkhead Cable Assembly using LC085TB Coax, 4 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	100			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Cond	ductor	65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Con	ductor	10.2 [33.46]		Ohms/1000ft [Ohms/Km]

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Max.)	0.76	0.9	1.2	1.69	2.71	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	
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Length Diameter

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Outer Conductor Material and Plating Outer Conductor Diameter

Repeated Minimum Bend Radius

48 in [121.92 cm] 0.013 in [0.33 mm]

LC085TB 50 Ohms Solid Copper Clad Steel, Silver PTFE 0 Tinned Copper Composite Braid 0.085 in [2.16 mm]

0.78 in [19.81 mm]



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### Connectors

Description	Connector 1	Connector 2
Туре	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.

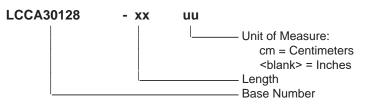


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#### How to Order

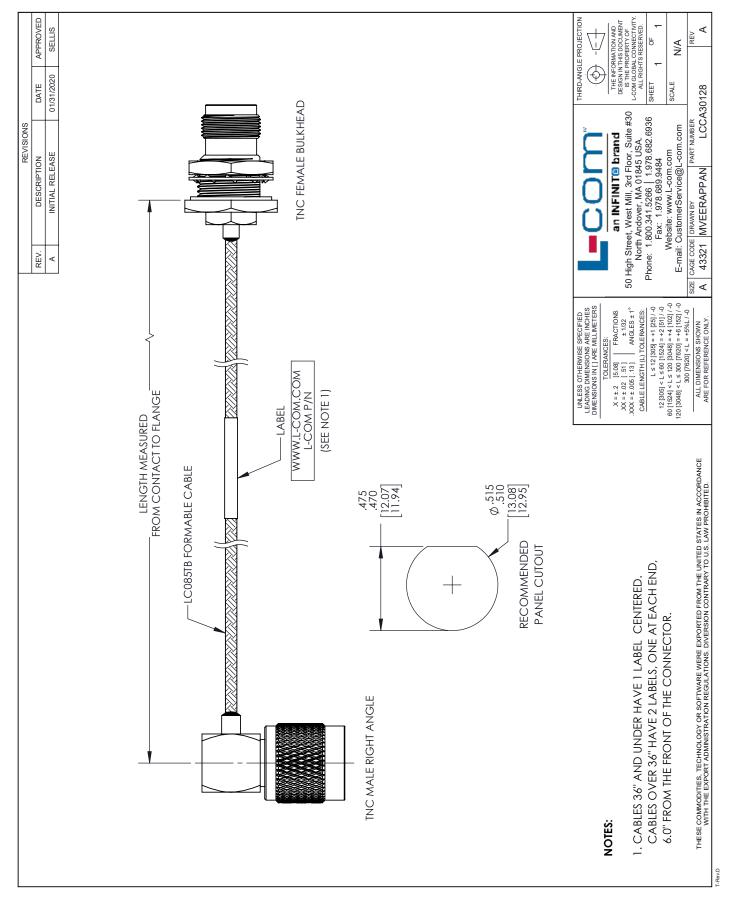
Part Number Configuration:



Example: LCCA30128-12 = 12 inches long cable LCCA30128-100cm = 100 cm long cable

TNC Male Right Angle to TNC Female Bulkhead Cable Assembly using LC085TB Coax, 4 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 instock 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 marranty regarding the suitability of 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.



### L-com CAD Drawing