

## **GLOBAL CONNECTIVITY SOLUTIONS**

SMA Male to TNC Male Right Angle Cable Assembly using LC141TB Coax, 1.5 FT

## LCCA30423-FT1.5

#### Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male Right Angle
- Cable 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 LCCA30423-FT1.5 is a SMA male to TNC male right angle cable assembly using LC141TB coax, 1.5 FT and ships same-day. The LC141TB coax of this SMA 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 SMA to TNC cable assembly has a male to male gender configuration with formable LC141TB series coax and operates to 6 GHz. The outer conductor is easily formed by hand with an overall diameter of inches and excellent shielding effectiveness greater than 100dB. This right angle TNC cable interface on the LC141TB coax allows for easier connections in tight spaces.

Custom versions of this SMA male to SMA 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 LCCA30423-FT1.5 L-com SMA Male to TNC Male Right Angle 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	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]

#### **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**

<b>Cable Assembly</b> Length Diameter	18 in [457.2 mm] 0.591 in [15.01 mm]
Weight	0.043 lbs [19.5 g]
<b>Cable</b> Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1	LC141TB 50 Ohms Solid Copper, Silver PTFE 1 Tinned Copper Braid
One Time Minimum Bend Radius Repeated Minimum Bend Radius	0.315 in [8 mm] 1.57 in [39.88 mm]

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## LCCA30423-FT1.5



#### Connectors

Description	Connector 1	Connector 2
Туре	SMA Male	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating		Brass, Gold
Dielectric Type		PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Nickel
Hex Size	5/16 in.	
Torque	8 in-Ibs 0.9 Nm	

#### **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.

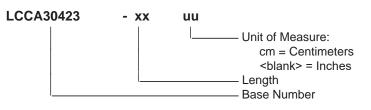


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## LCCA30423-FT1.5

#### How to Order

Part Number Configuration:



Example: LCCA30423-12 = 12 inches long cable LCCA30423-100cm = 100 cm long cable

SMA Male to TNC Male Right Angle 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 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.

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. APPROVED THIRD-ANGLE PROJECTION SELLIS Ŵ ∢ REV Ч A/A ~  $( \mathbf{\Phi} )$ 04/29/20 LCCA30423 DATE SHEET SCALE 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 REVISIONS E-mail: CustomerService@L-com.com an INFINIT® brand ITEM NO. Website: www.L-com.com INITIAL RELEASE DESCRIPTION TNC MALE RIGHT ANGLE DRAWN BY DZINN CAGE CODE 43321 REV. ∢ SOLDER-A L = 12 [305] = +1 [25] / -0 12 [305] + L = 200 [304] = -2 [51] / -0 60 [1224] + L = 120 [3043] = -44 [102] / -0 120 [3048] < L = 300 [7620] = 46 [152] / -0 300 [7620] = 16 [152] / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.  $\begin{array}{c|c} \hline TOLERANCES: \\ X = \pm .2 & [5.08] & FRACTIONS \\ XX = \pm .02 & [.51] & \pm 1/32 \\ XXX = \pm .005 [.13] & ANGLES \pm 1^{\circ} \end{array}$ ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS CABLE LENGTH (L) TOLERANCES WWW.L-COM.COM L-COM P/N SEE NOTE 1 ENGTH MEASURED FROM CONTACT TO CONTACT 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 RANKIKIKIKIKIKIKIKI SOLDER SMA MALE

#### L-com CAD Drawing

NOTES: 1.

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