

GLOBAL CONNECTIVITY SOLUTIONS

N Female to TNC Male Right Angle Cable Assembly using LC085TB Coax, 10 FT

LCCA30585-FT10

Configuration

- Connector 1: N Female
- Connector 2: TNC Male Right Angle
- 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

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L-com's LCCA30585-FT10 is a N female to TNC male right angle cable assembly using LC085TB coax, 10 FT and ships same-day. The LC085TB 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 LC085TB series coax and operates to 6 GHz. The tin plated copper outer conductor can be easily formed by hand and has an overall diameter of 0.085 inches. This right angle TNC cable interface on the LC085TB coax allows for easier connections in tight spaces.

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 LCCA30585-FT10 L-com N Female to TNC Male Right Angle Cable Assembly using LC085TB Coax, 10 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		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Condu	ctor	65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Condu	uctor	10.2 [33.46]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	6		GHz
Insertion Loss (Typ.)	1.8	2.6	3.8	6.3		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 for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly Length Diameter	120 in [304.8 cm] 0.63 in [16 mm]
Cable Cable Type	LC085TB
Impedance	50 Ohme

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

50 Ohms Solid Copper Clad Steel, Silver PTFE 1 Copper, Tin 0.085 in [2.16 mm]

0.78 in [19.81 mm]



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Connectors

Description	Connector 1	Connector 2
Туре	N Female	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold over Nickel
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating		Brass, Nickel

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



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LCCA30585-FT10

How to Order

Part Number Configuration: LCCA30585 - xx uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number

Example:

LCCA30585-12 = 12 inches long cable LCCA30585-100cm = 100 cm long cable

N Female to TNC Male Right Angle Cable Assembly using LC085TB Coax, 10 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 marken 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 Ь A/A ~ $(\mathbf{\Phi})$ **RIGHT ANGLE** 06/03/2020 TNC MALE LCCA30585 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 Website: www.L-com.com E-mail: CustomerService@L-com.com an INFINITe brand ITEM NO. INITIAL RELEASE DESCRIPTION BPUCHASKI SOLDER DRAWN BY 43321 CAGE CODE REV. ∢ A A L = 12 [305] = +1 [25] / -0 12 [305] = L = 120 [304] = -2 [51] / -0 60 [1524] = L = 120 [3048] = 44 [102] / -0 120 [3048] < L = 3300 [7620] = 46 [152] / -0 300 [7620] = 16 = 95%L / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE OULY. ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: [5.08] | FRACTIONS CABLE LENGTH (L) TOLERANCES WWW.L-COM.COM $X = \pm .2$ [5.08] $XX = \pm .02$ [.51] $XXX = \pm .005$ [.13] (SEE NOTE 1) L-COM P/N LABEL LENGTH 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 END OF THE CONNECTOR. SOLDER N FEMALE NOTES: ÷.

L-com CAD Drawing

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