

LCCA30410-FT1.5

Configuration

· Connector 1: SMA Male

Connector 2: N Female Bulkhead

• Cable Type: LC141TB

Features

Max Frequency 10 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 LCCA30410-FT1.5 is a SMA male to N female bulkhead 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 N cable assembly has a male to female gender configuration with formable LC141TB series coax and operates to 10 GHz. The outer conductor is easily formed by hand with an overall diameter of inches and excellent shielding effectiveness greater than 100dB. 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 SMA male to SMA 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 LCCA30410-FT1.5 L-com SMA Male to N Female Bulkhead Cable Assembly using LC141TB Coax, 1.5 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





LCCA30410-FT1.5

Electrical Specifications

Minimum	Typical	Maximum	Units
DC		10	GHz
		1.45:1	
	69.5		%
100			dB
	1.43 [4.69]		ns/ft [ns/m]
	29 [95.14]		pF/ft [pF/m]
		335	Vrms
	DC	DC 69.5 100 1.43 [4.69]	DC 10 1.45:1 69.5 100 1.43 [4.69] 29 [95.14]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Max.)	0.32	0.38	0.48	0.64	0.88	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
 18 in [457.2 mm]

 Diameter
 0.81 in [20.57 mm]

 Weight
 0.123 lbs [55.79 g]

Cable

Cable Type LC141TB
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTFE
Number of Shields 1
Shield Layer 1 Tinned Copper Braid

One Time Minimum Bend Radius 0.315 in [8 mm]
Repeated Minimum Bend Radius 1.57 in [39.88 mm]





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Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male	N Female Bulkhead		
Specification	MIL-STD-348A	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold		
Contact Plating Specification	50μ in. minimum	30μ in. minimum		
Dielectric Type	Teflon	Teflon		
Body Material and Plating	Stainless Steel, Gold	Passivated Stainless Steel		
Body Plating Specification	10μ in. minimum			
Coupling Nut Material and Plating	Brass, Nickel			
Coupling Nut Plating Specification	100μ in. minimum			
Hex Size	5/16 in			
Torque	5 in-lbs 0.57 Nm			

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

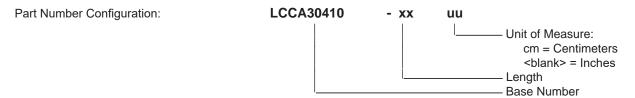
• Values at 25°C, sea level.





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How to Order



Example: LCCA30410-12 = 12 inches long cable

LCCA30410-100cm = 100 cm long cable

SMA Male to N Female Bulkhead 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 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

