



### LCCA30421-FT1

### Configuration

- · Connector 1: N Female
- Connector 2: SMA 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 LCCA30421-FT1 is a N female to SMA female bulkhead cable assembly using LC141TB coax, 1 FT and ships same-day. The LC141TB 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 SMA cable assembly has a female 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 110dB. L-com's RF cable assembly with SMA 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 N female to N 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 LCCA30421-FT1 L-com N Female to SMA Female Bulkhead Cable Assembly using LC141TB Coax, 1 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





#### LCCA30421-FT1

# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
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 Con	ductor	5.5 [18.04]		Ohms/1000ft [Ohms/Km]

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units	
Frequency	0.5	1	2.5	5	10	GHz	
Insertion Loss (Max.)	0.28	0.32	0.39	0.49	0.65	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]

 Diameter
 0.63 in [16 mm]

### Cable

Cable TypeLC141TBImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopper, Silver

Dielectric Type PTFE
Number of Shields 1

Shield Layer 1 Tinned Copper Braid

Repeated Minimum Bend Radius 0.625 in [15.88 mm]





# LCCA30421-FT1

### **Connectors**

Connector 1	Connector 2
N Female	SMA Female Bulkhead
50 Ohms	50 Ohms
Phosphor Bronze, Gold over Nickel	Beryllium Copper, Gold over Nickel
PTFE	PTFE
Brass, Nickel	Brass, Gold over Nickel
	N Female 50 Ohms Phosphor Bronze, Gold over Nickel PTFE

# **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

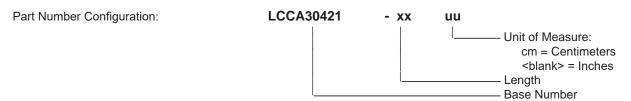
• Values at 25°C, sea level.





#### LCCA30421-FT1

#### **How to Order**



Example: LCCA30421-12 = 12 inches long cable

LCCA30421-100cm = 100 cm long cable

N Female to SMA Female Bulkhead 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 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**

