

SMA Male to SMA Female Cable Assembly using LC141TB Coax, 6 FT



**LCCA30074-FT6**

**Configuration**

- Connector 1: SMA Male
- Connector 2: SMA Female
- Cable Type: LC141TB

**Features**

- Max Frequency 18 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.9% VoP
- Hand Formable
- Tin Filled Copper Braid Outer Conductor

**Applications**

- General Purpose
- Laboratory Use
- System Interconnect



**Description**

L-com's LCCA30074-FT6 is a SMA male to SMA female cable assembly using LC141TB coax, 6 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 SMA cable assembly has a male to female gender configuration with formable LC141TB series coax and operates to 18 GHz. The tinned copper braid outer conductor is easily formed by hand with an overall diameter of 0.141 inches and excellent shielding effectiveness greater than 110dB.

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 LCCA30074-FT6 L-com SMA Male to SMA Female Cable Assembly using LC141TB Coax, 6 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		18	GHz
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			500	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.92	1.18	1.82	2.71	4.1	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 0.1 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Length	72 in [182.88 cm]
Diameter	0.025 in [0.64 mm]

**Cable**

Cable Type	LC141TB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	0
Outer Conductor Material and Plating	Tinned Copper Braid
Outer Conductor Diameter	0.141 in [3.58 mm]
Repeated Minimum Bend Radius	0.625 in [15.88 mm]

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## LCCA30074-FT6

### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Impedance	50 Ohms	50 Ohms
Contact Material and Plating		Beryllium Copper, Gold over Nickel
Dielectric Type		PTFE
Outer Conductor Material and Plating		Brass, Gold over Nickel
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 inch	
Torque	10 in-lbs 1.13 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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**LCCA30074-FT6**

**How to Order**

Part Number Configuration:

**LCCA30074 - xx uu**



Example: LCCA30074-12 = 12 inches long cable  
LCCA30074-100cm = 100 cm long cable

SMA Male to SMA Female Cable Assembly using LC141TB Coax, 6 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.

# SMA Male to SMA Female Cable Assembly using LC141TB Coax, 6 FT

## L-com CAD Drawing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/31/2020	SELLIS

  

LENGTH MEASURED  
FROM CONTACT TO CONTACT

SMA MALE

SMA FEMALE

LC141TB FORMABLE CABLE

LABEL

WWW.L-COM.COM  
L-COM P/N

(SEE NOTE 1)

  

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

**TOLERANCES:**

.X ± .2 [ .50]	FRACTIONS ± 1/32
.XX ± .02 [ .51]	ANGLES ± 1°
.XXX ± .005 [ .13]	

**CABLE LENGTH (L) TOLERANCES:**

L ≤ 12 [305] = +1 [25] / -0	L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0	

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

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an INFINITE brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

  

**NOTES:**

- 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.

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