

LCCA30073-FT4



Configuration

- Connector 1: SMA Male Right AngleConnector 2: SMA Male Right Angle
- 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 LCCA30073-FT4 is a SMA male right angle to SMA male right angle cable assembly using LC141TB coax, 4 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 male gender configuration with formable LC141TB series coax and operates to 10 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. This right angle SMA 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 LCCA30073-FT4 L-com SMA Male Right Angle to SMA Male Right Angle Cable Assembly using LC141TB Coax, 4 FT data sheet PDF includes details of the RF product specifications. CAD drawing(s) and dimensions below.





LCCA30073-FT4

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Co	nductor	7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Co	onductor	5.5 [18.04]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Max.)	0.52	0.68	0.94	1.36	2	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 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

 Length
 48 in [121.92 cm]

 Diameter
 0.025 in [0.64 mm]

Cable

Cable TypeLC141TBImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopper, 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]



LCCA30073-FT4

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male Right Angle	SMA Male Right Angle	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Hex Size	5/16 inch	5/16 inch	
Torque	10 in-lbs 1.13 Nm	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

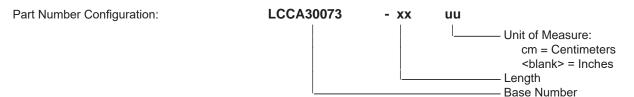
Notes:

• Values at 25°C, sea level.



LCCA30073-FT4

How to Order



Example: LCCA30073-12 = 12 inches long cable

LCCA30073-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Cable Assembly using LC141TB Coax, 4 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 instock 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.

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L-com CAD Drawing

