

SMA Male to SMA Male Right Angle Cable Assembly using LC085TBJ Coax, 3 FT

# LCCA30132-FT3



## Configuration

· Connector 1: SMA Male

Connector 2: SMA Male Right Angle

· Cable Type: LC085TBJ

#### **Features**

Max Frequency 10 GHz

Shielding Effectivity > 100dB

• PTFE Dielectric with 69.5% VoP

## **Applications**

- General Purpose
- · Laboratory Use

- Hand Formable
- Tin Filled Copper Composite Braid Outer Conductor
- FEP Jacket
- · System Interconnect



### **Description**

L-com's LCCA30132-FT3 is a SMA male to SMA male right angle cable assembly using LC085TBJ coax, 3 FT and ships same-day. The LC085TBJ 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 LC085TBJ series coax and operates to 10 GHz. The jacketed tinned copper composite braid outer conductor is easily formed by hand with an overall diameter of 0.105 inches and excellent shielding effectiveness greater than 100dB. This right angle SMA cable interface on the LC085TBJ 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 LCCA30132-FT3 L-com SMA Male to SMA Male Right Angle Cable Assembly using LC085TBJ Coax, 3 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



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### LCCA30132-FT3

## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Conduc	tor	65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conduc	ctor	10.2 [33.46]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			1,500	Vrms

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Max.)	0.75	0.98	1.35	1.95	2.74	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 straight connector and 0.2 dB per right angle connector.

## **Mechanical Specifications**

## **Cable Assembly**

Length 36 in [914.4 mm] Diameter 0.105 in [2.67 mm]

## Cable

Cable Type LC085TBJ 50 Ohms Impedance Inner Conductor Type Solid

Copper Clad Steel, Silver Inner Conductor Material and Plating PTFE

Dielectric Type Number of Shields

Outer Conductor Material and Plating Tinned Copper Composite Braid

Outer Conductor Diameter 0.085 in [2.16 mm] **FEP** 

Jacket Material

Jacket Diameter 0.105 in [2.67 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]



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Repeated Minimum Bend Radius

0.787 in [19.99 mm]

## **Connectors**

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Male Right Angle	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel	
Contact Plating Specification		8 µin minimum	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel	
Body Plating Specification		4 μin minimum	
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:

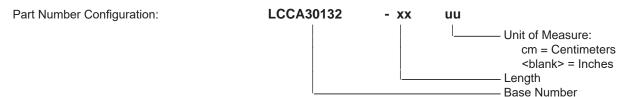
• Values at 25°C, sea level.



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## LCCA30132-FT3

### **How to Order**



Example: LCCA30132-12 = 12 inches long cable

LCCA30132-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Cable Assembly using LC085TBJ Coax, 3 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.

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# **L-com CAD Drawing**

