

Low Loss SMA Male to SMA Male Cable Assembly using 100 Series Coax, 3 FT

# LCCA30371-FT3



## Configuration

Connector 1: SMA MaleConnector 2: SMA MaleCable Type: CA-100

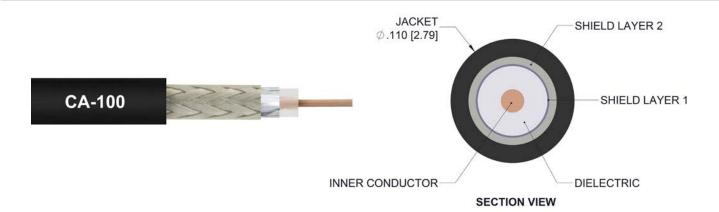
#### **Features**

- Max Frequency 6 GHz
- LMR-100 Equivalent
- Shielding Effectivity > 90 dB
- 66% Phase Velocity

#### **Applications**

- General Purpose
- · Laboratory Use
- Antenna Installations

- · Low Insertion Loss
- Double Shielded
- PVC Jacket
- Land Mobile Radio & Other Communication Systems
- · Cellular & Wi-Fi Systems



#### Description

L-com's LCCA30371-FT3 is a low loss SMA male to SMA male cable assembly using 100 series coax, 3 FT and ships same-day. The CA-100 coax of this SMA cable uses the PE dielectric with a VoP of 66%, resulting in very low insertion loss compared to solid dielectrics. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com SMA to SMA cable assembly has a male to male gender configuration with flexible CA-100 series coax and operates to 6 GHz. The double shield of this SMA cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB.

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 LCCA30371-FT3 L-com Low Loss SMA Male to SMA Male Cable Assembly using 100 Series Coax, 3 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



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#### LCCA30371-FT3

## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Capacitance		30.8 [101.05]		pF/ft [pF/m]
DC Resistance Inner Conducto	or	81.07 [265.98]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conducto	or	9.51 [31.2]		Ohms/1000ft [Ohms/Km]

## **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	2.5	GHz
Insertion Loss (Typ.)	0.44	0.59	0.74	0.97	1.46	dB

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in the assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

0.109 in [2.77 mm]

## **Mechanical Specifications**

## **Cable Assembly**

Jacket Diameter

Length 36 in [914.4 mm] Diameter 0.312 in [7.92 mm] Weight 0.026 lbs [11.79 g]

## Cable

Cable Type CA-100 50 Ohms Impedance Inner Conductor Type Solid Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type PΕ Number of Shields

Shield Layer 1 Aluminum Tape Shield Layer 2 Tinned Copper Braid Jacket Material PVC, Black

0.55 in [13.97 mm]

One Time Minimum Bend Radius



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Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 1 in [25.4 mm] 0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm] 15 lbs [6.8 Kg]

### **Connectors**

le SMA Male 48A MIL-STD-348A s 50 Ohms old Brass, Gold
s 50 Ohms
old Brass, Gold
mum 30µ in. Minimum
PTFE
kel Brass, Nickel
imum 100µ in. Minimum
kel Brass, Nickel
imum 100µ in. Minimum
5/16 in
7 Nm 5 in-lbs 0.57 Nm
i

# **Environmental Specifications**

**Temperature** 

Operating Range -20 to +70 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

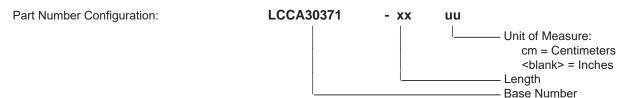
Notes:



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## LCCA30371-FT3

#### **How to Order**



Example: LCCA30371-12 = 12 inches long cable

LCCA30371-100cm = 100 cm long cable

Low Loss SMA Male to SMA Male Cable Assembly using 100 Series 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.

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**

