

LCCA30381-FT1



Configuration

Connector 1: SMA Male
Connector 2: MMCX Plug
Cable Type: CA-100

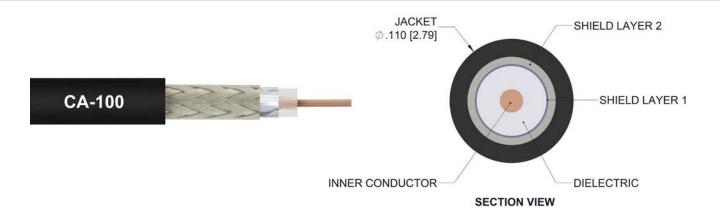
Features

- 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 LCCA30381-FT1 is a low loss SMA male to MMCX plug cable assembly using 100 series coax, 1 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 MMCX cable assembly has a male to plug 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 plug 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 LCCA30381-FT1 L-com Low Loss SMA Male to MMCX Plug Cable Assembly using 100 Series Coax, 1 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



LCCA30381-FT1

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 Cond	ductor	81.07 [265.98]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Con	ductor	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.)	0.28	0.33	0.38	0.46	0.62	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.

Mechanical Specifications

Cable Assembly

 Length
 12 in [304.8 mm]

 Diameter
 0.312 in [7.92 mm]

 Weight
 0.009 lbs [4.08 g]

Cable

Cable Type CA-100
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Steel
Dielectric Type PE
Number of Shields 2
Shield Layer 1 Aluminum Tape

Shield Layer 2 Tinned Copper Braid Jacket Material PVC, Black Jacket Diameter 0.109 in [2.77 mm]

One Time Minimum Bend Radius 0.55 in [13.97 mm]





LCCA30381-FT1

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

Description	Connector 1	Connector 2		
Туре	SMA Male	MMCX Plug		
Specification	MIL-STD-348A	BS EN 122340		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Brass, Gold	Brass, Gold		
Contact Plating Specification	30μ in. Minimum	30μ in. minimum		
Dielectric Type	PTFE	Teflon		
Body Material and Plating	Brass, Nickel	Brass, Gold		
Body Plating Specification	100μ in. Minimum	3μ in. minimum		
Coupling Nut Material and Plating	Brass, Nickel			
Coupling Nut Plating Specification	100μ in. Minimum			
Hex Size	5/16 in			
Torque	5 in-lbs 0.57 Nm			

Environmental Specifications

Temperature

Operating Range -20 to +70 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



LCCA30381-FT1

How to Order

Part Number Configuration:

LCCA30381 - xx uu

Unit of Measure:
cm = Centimeters

chlank> = Inches
Length
Base Number

Example: LCCA30381-12 = 12 inches long cable

LCCA30381-100cm = 100 cm long cable

Low Loss SMA Male to MMCX Plug Cable Assembly using 100 Series 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

