

# **GLOBAL CONNECTIVITY SOLUTIONS**

Low Loss SMA Male to SMA Male Cable Assembly using LMR-100 Coax, 1 FT with Times Microwave Components

# LCCA30151-FT1

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: LMR-100A-PVC

#### Features

- Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity

#### Applications

- · General Purpose
- · Laboratory Use
- Antenna Installations

- PVC Jacket
- Low Insertion Loss
- Bend Radius of 1 Inch
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems



#### Description

L-com's LCCA30151-FT1 is a low loss SMA male to SMA male cable assembly using LMR-100 coax, 1 FT with Times Microwave components and ships same-day. The LMR-100A-PVC 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 LMR-100A-PVC series coax and operates to 5.8 GHz. The double shield of this SMA cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB. \*LMR™ is a trademark of Times Microwave Systems.

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 LCCA30151-FT1 L-com Low Loss SMA Male to SMA Male Cable Assembly using LMR-100 Coax, 1 FT with Times Microwave Components 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		5.8	GHz
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Cond	uctor	81 [265.75]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Cond	luctor	9.5 [31.17]		Ohms/1000ft [Ohms/Km]
Jacket Spark			2,000	Vrms

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units	
Frequency	0.25	0.5	1	2.5	5.8	GHz	
Insertion Loss (Typ.)	0.32	0.37	0.44	0.6	0.84	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 includes an estimated insertion loss of 0.1 dB per connector.

#### **Mechanical Specifications**

Cable Assembly Length Diameter Weight	12 in [304.8 mm] 0.312 in [7.92 mm] 0.044 lbs [19.96 g]
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2	LMR-100A-PVC 50 Ohms Solid Copper Clad Steel PE 2 Aluminum Tape Tinned Copper Braid



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Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength PVC, Black 0.11 in [2.79 mm]

0.25 in [6.35 mm] 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	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Stainless Steel	Stainless Steel
Coupling Nut Material and Plating	Stainless Steel	Stainless Steel

#### **Environmental Specifications**

**Temperature** Operating Range Storage Range

-40 to +85 deg C -70 to +85 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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## LCCA30151-FT1

#### How to Order

Part Number Configuration: LCCA30151 - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** 

Example: LCCA30151-12 = 12 inches long cable LCCA30151-100cm = 100 cm long cable

Low Loss SMA Male to SMA Male Cable Assembly using LMR-100 Coax, 1 FT with Times Microwave Components 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.



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## L-com CAD Drawing

