

# **GLOBAL CONNECTIVITY SOLUTIONS**

## SMA Male to SMA Female Cable Assembly using RG178 Coax, 2 FT

# LCCA30053-FT2

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female
- Cable Type: RG178

#### **Features**

- Max Frequency 1 GHz
- 70% VoP

#### **Applications**

· General Purpose

- FEP Jacket
- Heat Shrink Strain Relief
- · Laboratory Use



#### Description

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L-com's LCCA30053-FT2 is a SMA male to SMA female cable assembly using RG178 coax, 2 FT and ships same-day. The RG178 coax of this SMA cable uses the PTFE dielectric with a VoP of 70%. 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 female gender configuration with flexible RG178 series coax and operates to 1 GHz. The shielding of this SMA cable is comprised of silver plated copper braid.

Custom versions of this SMA male to SMA female 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 LCCA30053-FT2 L-com SMA Male to SMA Female Cable Assembly using RG178 Coax, 2 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.







# LCCA30053-FT2

## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.3:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

## **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.43	0.48	0.62	0.82	1.09	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 connector.

#### **Mechanical Specifications**

<b>Cable Assembly</b> Length Diameter	24 in [609.6 mm] 0.072 in [1.83 mm]
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Jacket Material Jacket Diameter	RG178 50 Ohms Stranded Copper, Silver PTFE 1 Silver Plated Copper Braid FEP, Tan 0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]





# LCCA30053-FT2

## Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Female	
Specification	MIL-STD-348A	MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold	
Contact Plating Specification	50 µin minimum	MIL-G-45204	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100 µin minimum	QQ-N-290	
Coupling Nut Material and Plating	Brass, Nickel		
Coupling Nut Plating Specification	100 µin minimum		
Hex Size	5/16 Inch		
Torque	5 in-lbs 0.57 Nm		

#### **Environmental Specifications**

**Temperature** Operating Range

-55 to +200 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.



# LCCA30053-FT2

#### How to Order

Part Number Configuration: LCCA30053 - xx uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number

 Example:
 LCCA30053-12 = 12 inches long cable LCCA30053-100cm = 100 cm long cable

SMA Male to SMA Female Cable Assembly using RG178 Coax, 2 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 reserves the right to make such changes as required. Unless otherwise stated, 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 marke 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

