

# FMC00236-50CM DATA SHEET

# SMA Male to RA MMCX Plug Cable LMR-100 Coax in 50 CM

The SMA male to RA MMCX plug 50 cm cable using LMR-100 coax, part number FMC00236-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to MMCX cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-100A coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00236-50CM SMA male to MMCX plug cable assembly operates to 5.8 GHz. The right angle MMCX interface on the LMR-100A cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

## **Electrical Specifications**

Description	Min	Т	ур	Max	ι	Jnits	
Frequency Range	DC			5.8		GHz	
VSWR				1.4:1			
Velocity of Propagation		(	66			%	
RF Shielding	90					dB	
Group Delay		1.54	[5.05]		ns/f	t [ns/n	n]
Capacitance		30.8 [	101.05	]	pF/f	t [pF/r	n]
Inductance		0.077	[0.25]		uH/f	t [uH/r	m]
DC Resistance Inner Cor	nductor	81 [2	265.75]		Ω/100	Oft [Ω/	Km]
DC Resistance Outer Cor	nductor	9.5 [	31.17]		Ω/100	Oft [Ω/	Km]
Jacket Spark				2,000	\	/rms	
Jacket Spark				2,000	\	/rms	

## **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.88	1.12	1.5	2.3	3.5	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 for the straight connector and 0.2 dB for the right angle connector.

## **Mechanical Specifications**

#### **Cable Assembly**

Length\* 19.68 in [499.87 mm]

#### Cable

Cable Type LMR-100A



## **Configuration:**

- SMA Male
- MMCX Plug Right Angle
- LMR-100A

## **Features:**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- · Double Shielded
- PVC Jacket

## **Applications:**

- General Purpose
- Laboratory Use

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Impedance Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1

Shield Layer 2 Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment Flat Plate Crush

Tensile Strength

50 Ohms Solid

Copper Clad Steel

PE 2

> Aluminum Tape Tinned Copper Braid

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	MMCX Plug	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Brass, Gold	Brass, Gold	
Contact Plating Spec.	50 µin minimum	30 µin minimum	
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Brass, Nickel	Brass, Gold	
Body Plating Spec.	100 μin minimum	3 µin minimum	
Coupling Nut Material & Pla	ting Brass, Nickel		
Coupling Nut Plating Spec.	100 μin minimum		
Hex Size	5/16 inch		
Torque	3 in-lbs 0.34 Nm		

## Mechanical Specification Notes:

## **Environmental Specifications**

**Temperature** 

Operating Range -40 to +85 deg CStorage Range -70 to +85 deg C

**Compliance Certifications** (see product page for current document)

## **Plotted and Other Data**

Notes:

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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or  $\pm$  3/8", whichever is greater.





## **How to Order**

Part Number Configuration:	FMC00236	- xx	uu	
				<pre>- cm = Centimeters <black> = Inches</black></pre>
				– Length

Example: FMC00236-12 = 12 inches long cable

FMC00236-100cm = 100 cm long cable

SMA Male to RA MMCX Plug Cable LMR-100 Coax in 50 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: SMA Male to RA MMCX Plug Cable LMR-100 Coax in 50 CM FMC00236-50CM

URL: https://www.fairviewmicrowave.com/sma-male-ra-mmcx-plug-cable-lmr100-coax-fmc00236-50cm-p.aspx

The information contained in 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 implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

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