

# SMA Female Bulkhead to RA SSMC Plug Cable LMR-100 Coax in 50 cm

The SMA female bulkhead to RA SSMC plug 50 cm cable using LMR-100 coax, part number FMCA2151-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SSMC cable assembly has a female 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 FMCA2151-50CM SMA female to SSMC plug cable assembly operates to 5.8 GHz. The right angle SSMC interface on the LMR-100A cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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	Мах	U	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.6:1		
Velocity of Propagation		(	56			%
RF Shielding	90					dB
Group Delay		1.54	[5.05]	]	ns/fl	t [ns/m]
Capacitance		30.8 [	101.0	5]	pF/fl	t [pF/m]
Inductance		0.077	' [0.25	]	uH/fl	t [uH/m]
DC Resistance Inner Cor	nductor	81 [2	65.75		Ω/100	0ft [Ω/Km]
DC Resistance Outer Cor	nductor	9.5 [	31.17]		Ω/100	0ft [Ω/Km]
Jacket Spark				2,000	V	/rms

#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.48	0.53	0.6	0.96	1.35	dB

**Electrical Specification Notes:** 

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB for the SMA Female connector and 0.2 dB for the SSMC Male connector.

## **Mechanical Specifications**

**Cable Assembly** Length\* Diameter

19.68 in [499.87 mm] 0.312 in [7.92 mm] 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

FMCA2151-50CM

**DATA SHEET** 

# **Configuration:**

- SMA Female Bulkhead
- SSMC 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

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#### Cable

Cable Type
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

#### Connectors

Description	Connector 1		Connector 2	
Туре	SMA Fem	nale	SSMC Plug	
Mount Method	Bulkhea	ad		
Specification	MIL-STD-	348		
Impedance	50 Ohn	ns	50 Ohm	IS
Mating Cycles			500	
Contact Material & Plating	Beryllium Cop	per, G <mark>old</mark>	Beryllium Copp	er, Gold
Contact Plating Spec.			MIL-G-452	204
Dielectric Type			Teflon	
Outer Cond Material & Plating Brass,		ckel		
Body Material & Plating	Brass, Nie	ckel	Brass, Go	old
Body Plating Spec.			MIL-G-452	204
Coupling Nut Material & Pla	ating	Beryllium Copper, Gold		er, Gold
Coupling Nut Plating Spec.			MIL-G-452	204
Torque			1.75 in-lbs 0	.2 Nm

LMR-100A 50 Ohms Solid

PE 2

**Copper Clad Steel** 

Aluminum Tape Tinned Copper Braid

0.11 in [2.79 mm]

0.25 in [6.35 mm] 1 in [25.4 mm]

15 lbs [6.8 Kg]

0.1 lbs-ft [0.14 N-m]

10 lbs/in [0.18 Kg/mm]

PVC, Black

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

#### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

#### How to Order

Part Number Configuration:



Example: FMCA2151-12 = 12 inches long cable FMCA2151-100cm = 100 cm long cable

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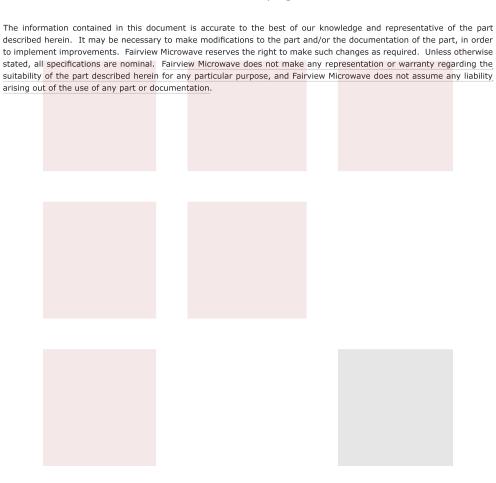


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SMA Female Bulkhead to RA SSMC Plug Cable LMR-100 Coax in 50 cm from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest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

Click the following link to obtain additional part information: SMA Female Bulkhead to RA SSMC Plug Cable LMR-100 Coax in 50 cm FMCA2151-50CM

URL: https://www.fairviewmicrowave.com/sma-female-ra-ssmc-plug-cable-lmr100-coax-fmca2151-50cm-p.aspx

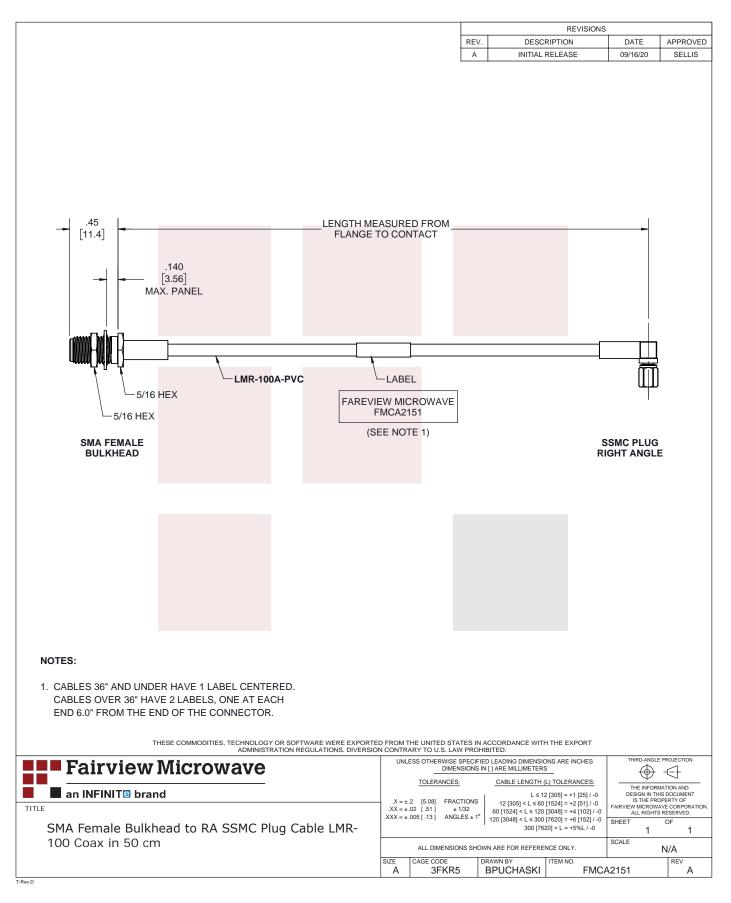


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