



SMA Female Bulkhead to RA SSMC Plug Cable LMR-100 Coax

The SMA female bulkhead to RA SSMC plug cable using LMR-100 coax, part number FMCA2151, 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 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	Max	U	nits	
Frequency Range	DC			5.8	(GHz	
VSWR				1.6:1			
Velocity of Propagation		ć	6			%	
RF Shielding	90					dB	
Group Delay		1.54 [5.05]			ns/ft [ns/m]		
Capacitance		30.8 [101.05]	pF/ft	[pF/n	n]
Inductance		0.077	[0.25]		uH/ft	[uH/r	<u>n]</u>
DC Resistance Inner Cor	nductor	81 [2	65.75]		Ω/1000	Oft [Ω/I	Km]
DC Resistance Outer Cor	nductor	9.5 [31.17]		Ω/1000	Oft [Ω/l	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.)	0.41	0.44	0.48	0.7	0.94	dB/ft
	1.35	1.44	1.57	2.3	3.08	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. 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

Diameter

0.312 in [7.92 mm]



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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Weight 0.045 lbs [20.41 g]

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

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment Flat Plate Crush Tensile Strength

Jacket Diameter

LMR-100A 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	Connect	or 1	Connector 2		
Туре	SMA Fem	nale	SSMC Plug		
Mount Method	Bulkhea	ad			
Specification	MIL-STD-	348			
Impedance	50 Ohn	าร	50 Ohms		
Mating Cycles			500		
Contact Material & Plating	Beryllium Cop	oer, Gold	d Beryllium Copper, Gold		
Contact Plating Spec.			MIL-G-45204	4	
Dielectric Type			Teflon		
Outer Cond Material & Plati	ing Brass, Nic	ckel			
Body Material & Plating	Brass, Nic	ckel	Brass, Gold		
Body Plating Spec.			MIL-G-45204	4	
Coupling Nut Material & Pla	ating		Beryllium Copper	, Gold	
Coupling Nut Plating Spec.			MIL-G-45204	4	
Torque			1.75 in-lbs 0.2	Nm	

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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How to Order

Part Number Configuration:	FMCA2151 - xx	uu	
			- cm = Centimeters
			- Length

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

SMA Female Bulkhead to RA SSMC Plug Cable LMR-100 Coax 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 FMCA2151

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

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