

## SMA Female Bulkhead to RA SSMC Plug Cable LMR-100 Coax in 48 Inch

The SMA female bulkhead to RA SSMC plug 48 inch cable using LMR-100 coax, part number FMCA2151-48, 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 FMCA2151-48 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	Typ	Max	Units
Frequency Range	DC		5.8	GHz
VSWR			1.6:1	
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 Conductor		81 [265.75]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		9.5 [31.17]		$\Omega$ /1000ft [ $\Omega$ /Km]
Jacket Spark			2,000	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.74	0.86	1.02	1.9	2.86	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*	48 in [121.92 cm]
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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**Cable**

Cable Type	LMR-100A
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]

One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Female	SSMC Plug
Mount Method	Bulkhead	
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.		MIL-G-45204
Dielectric Type		Teflon
Outer Cond Material & Plating	Brass, Nickel	
Body Material & Plating	Brass, Nickel	Brass, Gold
Body Plating Spec.		MIL-G-45204
Coupling Nut Material & Plating		Beryllium Copper, Gold
Coupling Nut Plating Spec.		MIL-G-45204
Torque		1.75 in-lbs 0.2 Nm

**Compliance Certifications** (see [product page](#) for current document)

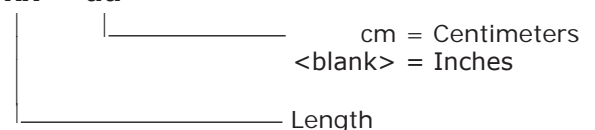
**Plotted and Other Data**

- Notes:
- Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**FMCA2151 - xx uu**



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

SMA Female Bulkhead to RA SSMC Plug Cable LMR-100 Coax in 48 Inch 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 48 Inch FMCA2151-48](#)

URL: <https://www.fairviewmicrowave.com/sma-female-ra-ssmc-plug-cable-lmr100-coax-fmca2151-48-p.aspx>

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