

Low Loss RA SMA Male to SMA Female Bulkhead Cable LMR-100 Coax in 100 cm

The RA SMA male to SMA female bulkhead 100 cm cable using LMR-100 coax, part number FMC00206-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to female 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 FMC00206-100CM SMA male to SMA female cable assembly operates to 3 GHz. The right angle SMA 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	Un	its
Frequency Range	DC			3	G	Hz
VSWR				1.4:1		
Velocity of Propagation		ć	6		9	6
RF Shielding	90				d	В
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 Cor	nductor	81 [2	65.75]		Ω/1000f	t [Ω/Km]
DC Resistance Outer Cor	nductor	9.5 [31.17]		Ω/1000f	t [Ω/Km]
Jacket Spark				2,000	Vri	ms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.5	0.53	0.63	0.79	1.45	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 0.2 dB for the SMA Male connector and 0.1 dB for the SMA Female connector.

Mechanical Specifications

Cable Assembly

Length* Diameter 39.37 in [100 cm] 0.433 in [11 mm]

FMC00206-100CM DATA SHEET



Configuration:

- SMA Male Right Angle
- SMA Female Bulkhead
- LMR-100A

Features:

- Max Frequency 3 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 PΕ

Dielectric Type 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
Туре	SMA Male	SMA Female
Mount Method		Bulkhead
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	50 μin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plati	ng	Brass, Gold
Outer Cond Plating Spec.		3 µin minimum
Body Material & Plating	Brass, Nickel	
Body Plating Spec.	100 μin minimum	
Coupling Nut Material & Pla	iting Brass, Nickel	
Coupling Nut Plating Spec.	100 μin minimum	
Hex Size	16-May inch 16-May inch	

Environmental Specifications

Temperature

-20 to +80 deg C Operating Range

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:	FMC00206 - xx	uu	
			<pre>- cm = Centimeters <black> = Inches</black></pre>
			– Length
Everence: EMCOOOO 12 12 inches le	mar aalala		

Example: FMC00206-12 = 12 inches long cable

FMC00206-100cm = 100 cm long cable

Low Loss RA SMA Male to SMA Female Bulkhead Cable LMR-100 Coax in 100 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: Low Loss RA SMA Male to SMA Female Bulkhead Cable LMR-100 Coax in 100 cm FMC00206-100CM

URL: https://www.fairviewmicrowave.com/low-loss-ra-sma-male-sma-female-cable-lmr100-coax-fmc00206-100cm-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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