

FMC00206 DATA SHEET

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

The RA SMA male to SMA female bulkhead cable using LMR-100 coax, part number FMC00206, 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 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	Мах	ι	Inits
Frequency Range	DC			3		GHz
VSWR				1.4:1		
Velocity of Propagation		e	56			%
RF Shielding	90					dB
Group Delay		1.54	[5.05]		ns/f	t [ns/m]
Capacitance		30.8 [101.0	5]	pF/f	t [pF/m]
Inductance		0.077	[0.25]	uH/f	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	١	/rms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.06	0.07	0.1	0.15	0.35	dB/ft
	0.2	0.23	0.33	0.49	1.15	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. 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 Diameter

0.433 in [11 mm]



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

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

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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

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]

15 lbs [6.8 Kg]

0.1 lbs-ft [0.14 N-m]

10 lbs/in [0.18 Kg/mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength

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 & Plat	ter Cond Material & Plating			
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

Operating Range

-20 to +80 deg C

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



Example: FMC00206-12 = 12 inches long cable FMC00206-100 cm = 100 cm long cable

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

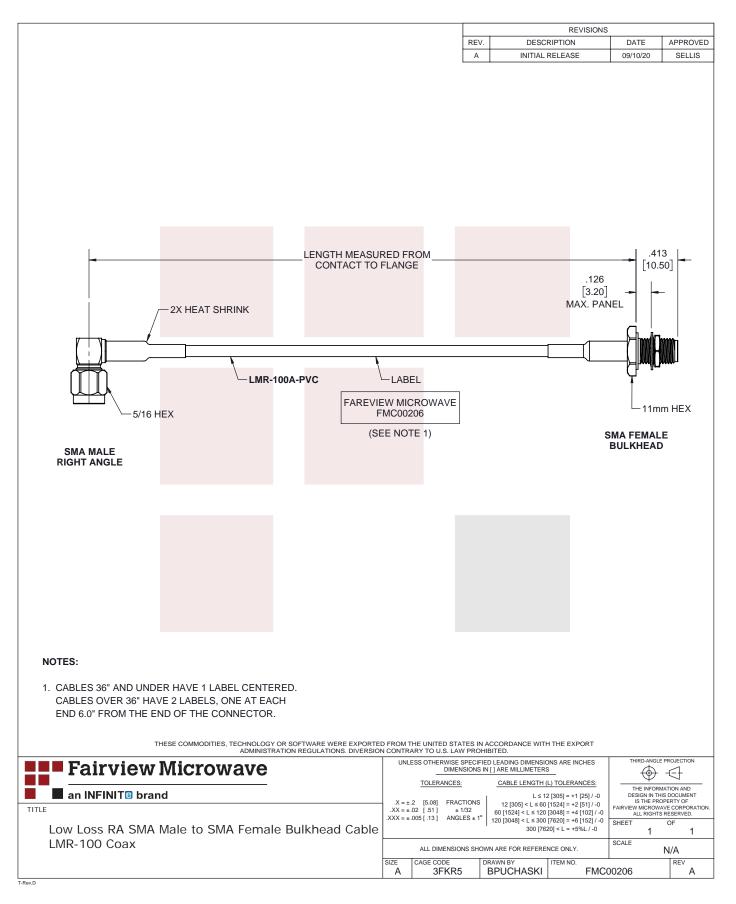
URL: https://www.fairviewmicrowave.com/low-loss-ra-sma-male-sma-female-cable-Imr100-coax-fmc00206-p.aspx

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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