



Low Loss SMA Female Bulkhead to RA Push-On SMP Female Cable LMR-100 Coax

The SMA female bulkhead to RA SMP female push-on cable using LMR-100 coax, part number FMC00394, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMP cable assembly has a female 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 FMC00394 SMA female to SMP female cable assembly operates to 3 GHz. The right angle SMP 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.)	0.06	0.07	0.1	0.18	0.35	dB/ft
	0.2	0.23	0.33	0.59	1.15	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1~\mathrm{dB}$ for the SMA connector and $0.2~\mathrm{dB}$ for the SMP connector.

Mechanical Specifications

Cable Assembly Diameter

0.433 in [11 mm]



Configuration:

- SMA Female Bulkhead
- Push-OnSMP Female Right Angle
- 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

Copper Clad Steel Inner Conductor Material and Plating Dielectric Type PΕ

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 Female	SMP Female		
Mount Method	Bulkhead			
Specification	MIL-STD-348/	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms		
Connection Method		Push-On		
Contact Material & Plating	Beryllium Copper,	Gold Beryllium Copper, Gold		
Contact Plating Spec.	50 μin minimur	m 30μ in. minimum		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Platin	ng Brass, Gold	Beryllium Copper, Gold		
Outer Cond Plating Spec.	3 µin minimum	n 3μ in. minimum		
Body Material & Plating		Brass, Gold		
Body Plating Spec.		3μ in. minimum		
Hex Size	5/16 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:	FMC00394	- xx	uu	
				cm = Centimeters <blank> = Inches Length</blank>

Example: FMC00394-12 = 12 inches long cable

FMC00394-100cm = 100 cm long cable

Low Loss SMA Female Bulkhead to RA Push-On SMP Female 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 SMA Female Bulkhead to RA Push-On SMP Female Cable LMR-100 Coax FMC00394

URL: https://www.fairviewmicrowave.com/low-loss-sma-female-ra-smp-female-cable-lmr100-coax-fmc00394-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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