

SMA Male to SMA Female Cable LMR-100 Coax

The SMA male to SMA female cable using LMR-100 coax, part number FMC00092, 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 FMC00092 SMA male to SMA female cable assembly operates to 6 GHz. 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		6	GHz
VSWR			1.4:1	
Insertion Loss		1 3.28	1.5 4.92	dB/ft dB/m
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]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω /1000ft [Ω /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 (Typ.)	0.06	0.08	0.12	0.19	0.3	dB/ft
	0.2	0.26	0.39	0.62	0.98	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly



Configuration:

- SMA Male
- SMA Female
- LMR-100A

Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

Applications:

- General Purpose
- Laboratory Use
- Antenna Installations
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems

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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 Male	SMA Female
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 & Plating		Brass, Gold
Outer Cond Plating Spec.		3 µin minimum
Body Material & Plating	Brass, Nickel	
Body Plating Spec.	100 µin minimum	
Coupling Nut Material & Plating	Brass, Nickel	
Coupling Nut Plating Spec.	100 µin minimum	
Hex Size	5/16 inch	1/4 inch
Torque	3 in-lbs 0.34 Nm	

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

Environmental Specifications
Temperature

Operating Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

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

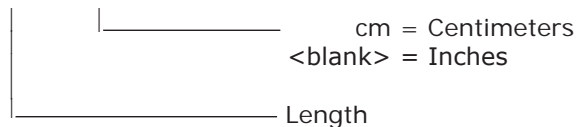
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC00092 - xx uu



Example: FMC00092-12 = 12 inches long cable
FMC00092-100cm = 100 cm long cable

SMA Male to SMA 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: [SMA Male to SMA Female Cable LMR-100 Coax FMC00092](#)

URL: <https://www.fairviewmicrowave.com/sma-male-sma-female-cable-lmr100-coax-fmc00092-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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/19/2020	S.ELLIS

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<div><div><div></div><div></div><div></div><div></div></div><div><div>Fairview Microwave™</div><div>an INFINITE brand</div></div></div> <div><p>TITLE</p><p>SMA Male to SMA Female Cable LMR-100 Coax</p></div>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table><tr><td>.X = ±.2 [5.08]</td><td>FRACTIONS ± 1/32</td></tr><tr><td>.XX = ±.02 [.51]</td><td>ANGLES ± 1°</td></tr><tr><td>.XXX = ±.005 [.13]</td><td></td></tr></table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table><tr><td>L ≤ 12 [305] = +1 [25] / -0</td></tr><tr><td>12 [305] < L ≤ 60 [1524] = +2 [51] / -0</td></tr><tr><td>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td></tr><tr><td>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td></tr><tr><td>300 [7620] < L = +5%L / -0</td></tr></table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> <table><tr><td>SIZE A</td><td>CAGE CODE 3FKR5</td><td>DRAWN BY K.DANG</td><td>ITEM NO. FMC00092</td><td>REV A</td></tr></table>	.X = ±.2 [5.08]	FRACTIONS ± 1/32	.XX = ±.02 [.51]	ANGLES ± 1°	.XXX = ±.005 [.13]		L ≤ 12 [305] = +1 [25] / -0	12 [305] < L ≤ 60 [1524] = +2 [51] / -0	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	300 [7620] < L = +5%L / -0	SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMC00092	REV A	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> <table><tr><td>SHEET 1</td><td>OF 1</td></tr><tr><td colspan="2">SCALE N/A</td></tr></table>	SHEET 1	OF 1	SCALE N/A	
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