



Fire Rated Low Loss RA SMA Male to SMA Male Cable LMR-100-FR Coax

The RA SMA male to SMA male cable using LMR-100-FR coax, part number FMCA3215, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-100A-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA3215 SMA male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interface on the LMR-100A-FR cable allows for easier connections in tight spaces. 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	ι	Jnits	
Frequency Range	DC			5.8		GHz	
VSWR				1.4:1			
Velocity of Propagation		(56			%	
RF Shielding	90					dB	
Group Delay	roup Delay				ns/ft [ns/m]		
Capacitance	30.8 [101.05]			pF/ft [pF/m]			
Inductance		0.077	7 [0.25]		uH/f	t [uH/r	n]
DC Resistance Inner Cor	nductor	81 [2	265.75]		Ω/100	Oft [Ω/I	(m)
DC Resistance Outer Cor	nductor	9.5 [31.17]		Ω/100	Oft [Ω/I	(m]
Jacket Spark				2,000	١	/rms	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.	0.115	0.165	0.24	0.398	0.641	dB/ft
	0.38	0.54	0.79	1.31	2.1	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Weight 0.04 lbs [18.14 g]

Cable

Cable Type LMR-100A-FR Impedance 50 Ohms



Configuration:

- SMA Male Right Angle
- SMA Male
- LMR-100A-FR

Features:

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- FRPE 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

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Inner Conductor Type

Inner Conductor Material and Plating Copper Dielectric Type PE

Dielectric Type Number of Shields

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper
Jacket Material FRPE, Black
Jacket Diameter 0.11 in [2.79 mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment Flat Plate Crush

Tensile Strength

0.25 in [6.35 mm] 1 in [25.4 mm]

Solid

2

0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm] 15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2			
Туре	SMA Male	SMA Male			
Specification	MIL-STD-348A	MIL-STD-348A			
Impedance	50 Ohms	50 Ohms			
Contact Material & Plating	Brass, Gold	Brass, Gold			
Contact Plating Spec.	50 μin minimum	50 µin minimum			
Dielectric Type	PTFE	PTFE			
Body Material & Plating	Brass, Gold	Brass, Gold			
Body Plating Spec.	3 µin minimum	3 µin minimum			
Coupling Nut Material & Pla	ting Brass, Gold	Brass, Gold			
Coupling Nut Plating Spec.	3 µin minimum	3 µin minimum			
Hex Size	5/16 in	5/16 in			

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

Example: FMCA3215-12 = 12 inches long cable

FMCA3215-100cm = 100 cm long cable

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Fire Rated Low Loss RA SMA Male to SMA Male Cable LMR-100-FR Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Fire Rated Low Loss RA SMA Male to SMA Male Cable LMR-100-FR Coax FMCA3215

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

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-ra-sma-male-to-sma-male-cable-lmr-100-fr-coax-fm-ca3215-p.aspx

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stated, all	specification	ons are	nominal.	Fairvie	w Microwa	ve does n	ot make	any rep	resentat	ion or	warranty re	egard	ling the
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arising ou	t of the use	of any	part or do	ocument	ation.								

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