



SMA Male to SMA Male Cable Using FM-103FLEX Coax

The SMA male to SMA male cable using FM-103FLEX coax, part number FMCA1971, 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 FM-103FLEX coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1971 SMA male to SMA male cable assembly operates to 26.5 GHz. The triple 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	Inits
Frequency Range	DC			26.5		GHz
VSWR				1.4:1		
Velocity of Propagation		-	76			%
RF Shielding	90					dB
Capacitance		26 [85.3]		pF/f	t [pF/m]
Inductance		65 [2	13.25		uH/f	t [uH/m]
Input Power (Peak)				550	V	Vatts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	26.5	GHz
Insertion Loss (Max.)	0.48	0.59	0.8	1.07	1.78	dB/ft
	1.57	1.94	2.62	3.51	5.84	dB/m
Insertion Loss (Typ.)	0.46	0.55	0.75	0.99	1.64	dB/ft
	1.51	1.8	2.46	3.25	5.38	dB/m

Mechanical Specifications

Cable Assembly

Diameter 0.35 in [8.89 mm]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

FM-103FLEX 50 Ohms Stranded Copper, Silver PTFE 3



Configuration:

- SMA Male
- SMA Male
- FM-103FLEX

Features:

- Max Frequency 26.5 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Triple Shielded
- ETFE Jacket

Applications:

- General Purpose
- Laboratory Use

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Shield Layer 1 Silver Plated Copper
Shield Layer 2 Conductive Tape
Shield Layer 3 Silver Plated Copper
Jacket Material ETFE, Gray

Jacket Diameter 0.103 in [2.62 mm]

One Time Minimum Bend Radius 0.32 in [8.13 mm]
Repeated Minimum Bend Radius 0.96 in [24.38 mm]
Typical Flex Cycles 500,000

Connectors

Description	Connector	1	Connector 2	2
Туре	SMA Male		SMA Male	
Impedance	50 Ohms		50 Ohms	
Contact Material & Plating	Beryllium Copper,	Gold	Beryllium Copper,	Gold
Contact Plating Spec.	ASTM-B488 50μ Ιι	n. Min A	STM-B488 50μ In. M	1inimun
Dielectric Type	PTFE		PTFE	
Body Material & Plating	Passivated Stainles	s Steel	Passivated Stainless	s Steel
Body Plating Spec.	SAE-AMS-270	0	SAE-AMS-270	0
Coupling Nut Material & Pla	ating Passivated Stainles	s Steel	Passivated Stainless	s Steel
Coupling Nut Plating Spec.	SAE-AMS-270	0	SAE-AMS-270	0
Hex Size	5/16 Inch		5/16 Inch	
Torque	8 in-lbs 0.9 N	m	8 in-lbs 0.9 N	m

Mechanical Specification Notes:

Environmental Specifications

TemperatureOperating Range

-45 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

How to Order

Part Number Configuration:

Example: FMCA1971-12 = 12 inches long cable

FMCA1971-100cm = 100 cm long cable

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





SMA Male to SMA Male Cable Using FM-103FLEX 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 Male Cable Using FM-103FLEX Coax FMCA1971

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/sma-male-sma-male-FM-103FLEX-cable-assembly-FMCA1971-p.aspx

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.		ent improvements								
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