

SMA Male to SMA Male Cable FM102FLEX Coax and RoHS Compliant

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		26.5	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	90			dB

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	6	12	18	26.5		GHz
Insertion Loss (Max.)	0.8 [2.62]	1.08 [3.54]	1.36 [4.46]	1.67 [5.48]		dB/ft [dB/m]
VSWR (Max.)	1.25:1	1.25:1	1.25:1	1.4:1		
Power Handling (Max.)	160	110	89	73		Watts

Mechanical Specifications

Cable Assembly

Diameter 0.35 in [8.89 mm]

Cable

Cable Type FM-102FLEX
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Number of Shields 3
 Shield Layer 1 Silver Plated Copper
 Shield Layer 2 Aluminum Tape
 Shield Layer 3 Silver Plated Copper
 Jacket Material ETFE
 Jacket Diameter 0.16 in [4.06 mm]

One Time Minimum Bend Radius 0.32 in [8.13 mm]



Configuration:

- SMA Male
- SMA Male
- FM-102FLEX

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488 50µ In. Min	ASTM-B488 50µ In. Min
Dielectric Type	PTFE	PTFE
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Spec.	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2700

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FMC0202946 - xx uu**

cm = Centimeters
<blank> = Inches
Length

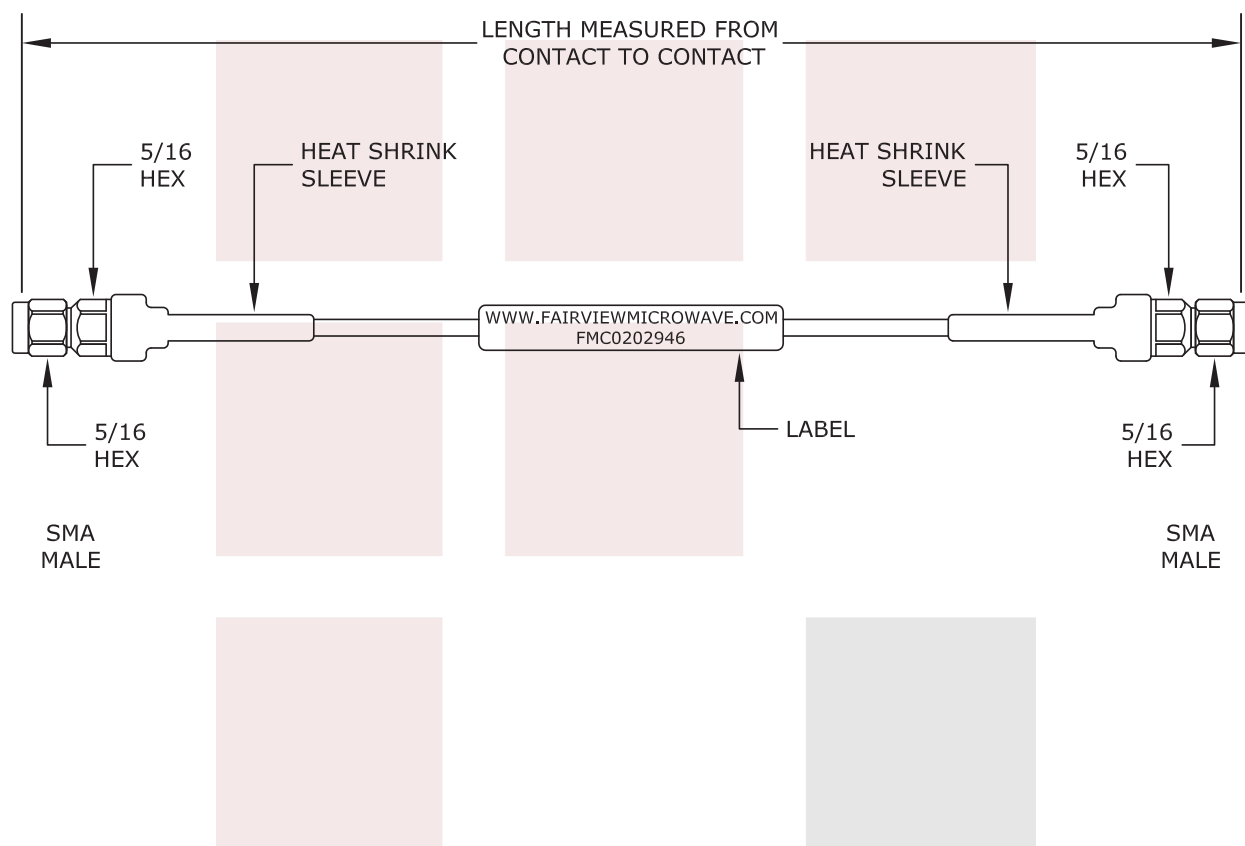
Example: FMC0202946-12 = 12 inches long cable
FMC0202946-100cm = 100 cm long cable

SMA Male to SMA Male Cable FM102FLEX Coax and RoHS Compliant 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 FM102FLEX Coax and RoHS Compliant FMC0202946](http://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm102flex-coax-fmc0202946-p.aspx)

URL: <http://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm102flex-coax-fmc0202946-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.



NOTE:
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE SMA Male to SMA Male Cable FM102FLEX Coax and RoHS Compliant		DWG NO FMC0202946		CAGE CODE 3FKR5	
		CAD FILE 122315	SHEET	SCALE N/A	SIZE A 2233