



SMA Female Bulkhead to SMA Male Cable FM141FLEX Coax

The SMA female bulkhead to SMA male cable using FM141FLEX coax, part number FMCA1038, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a female to male gender configuration with 50 ohm flexible FM141FLEX coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1038 SMA female to SMA male cable assembly operates to 27 GHz. 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. Our new series of flexible cables use high performance FM141FLEX coax and are terminated with a new low profile connector design. These high performance flexible cables are an ideal choice for many applications including inrack RF devices where tight bends and continual flexure might be required. Our FM141FLEX is a flexible coax alternative to semi-rigid coax and has a solid PTFE resulting in a 69.5% phase velocity. This series features a smooth wall formed by the braid-over-sprial-ribbon design and has similar performance to a solid wall RG402 semi-rigid RG402 cable.

These FM141FLEX cables are similar to our existing SCA1814 cables. The heavier duty SCA1814 test cables have similar electrical performance, but include a heavy duty strain relief mechanism and extra booting material as well as a thick wal SMA connector to increase the ruggedness of the SCA1814 cables for use in more demanding test environments.

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	Тур	Max	Units
Frequency Range	DC		27	GHz
VSWR			1.4:1	
Return Loss			15.56	dB
Velocity of Propagation		69.5		%
RF Shielding	90) dB		
Group Delay		1.44 [4.72]		ns/ft [ns/m]
Capacitance		29.4 [96.46]	pF/ft [pF/m]	
Operating Voltage (AC)			250	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	6	12	18	27	GHz
Insertion Loss (Max.)	0.4	0.6	0.88	1.1	1.28	dB/ft
	1.31	1.97	2.89	3.61	4.2	dB/m



Configuration:

- SMA Female Bulkhead
- SMA Male
- FM141FLEX

Features:

- Max Frequency 27 GHz
- Shielding Effectivity > 90 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles
- Low Profile Right Angle SMA Design operates to 27 GHz
 Typical Right Angle SMA VSWR less than1.30:1 to 27 GHz
 Shielding effectivity > 90dB
 One time minimum bend radius: 0.4 inch

Applications:

- General Purpose
- Laboratory Use
- High Performance RF equipment interconnect
- Flexible in cabinet or in the rack requirements
- Inside the box RF routing
- General purpose lighter duty lab 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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VSWR (Max.)	1.12:1	1.2:1	1.25:1	1.35:1	1.4:1	
Power Handling (Max	a.) 215	150	105	88		W

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable Type Impedance 50 Ohms

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1

Shield Layer 2 Outer Conductor 1 Material and Plating Outer Conductor 2 Material and Plating

Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

FM141FLEX

Solid

Copper Clad Steel, Silver

PTFE

Silver Plated Copper Tape Silver Plated Copper Braid Silver Plated Copper Tape Silver Plated Copper Braid

0.163 in [4.14 mm]

0.4 in [10.16 mm] 1.58 in [40.13 mm]

Connectors

Connector 1	Connector 2		
SMA Female	SMA Male		
Bulkhead			
50 Ohms	50 Ohms		
500	500		
Beryllium Copper, Gold	d Brass, Gold		
PTFE	PTFE		
Stainless Steel, Gold	Stainless Steel, Gold		
iting	Passivated Stainless Steel		
	5/16 Inch		
Silicon			
	SMA Female Bulkhead 50 Ohms 500 Beryllium Copper, Gol PTFE Stainless Steel, Gold		

Environmental Specifications

Temperature

Operating Range -40 to +150 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:	FMCA1038 - x	x uu	
		<u> </u>	<pre> cm = Centimeters <black> = Inches</black></pre>
			— Length

Example: FMCA1038-12 = 12 inches long cable

FMCA1038-100cm = 100 cm long cable

SMA Female Bulkhead to SMA Male Cable FM141FLEX 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: SMA Female Bulkhead to SMA Male Cable FM141FLEX Coax FMCA1038

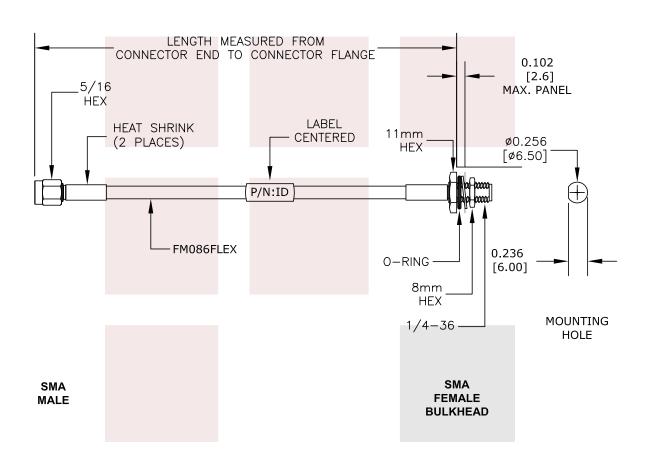
URL: https://www.fairviewmicrowave.com/sma-female-sma-male-cable-fm141flex-coax-fmca1038-p.aspx

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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SMA Female Bulkhead to SMA Male Cable FM141FLEX Coax	DWG NO FMCA1038			CAGE CODE 3FKR5		
	CAD FILE 041015	SHEET	SCAL	E N/A	SIZE A	150