



SMA Male to RA SMA Male Cable FM141FLEX Coax

The SMA male to RA SMA male cable using FM141FLEX coax, part number FMCA1036, 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 FM141FLEX coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1036 SMA male to SMA male cable assembly operates to 27 GHz. The right angle SMA interface on the FM141FLEX 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. 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 in-rack RF devices where tight bends and continual flexure might be required. Our FM141FLEX is a flexible coax alternative to semirigid 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		1.43 [4.69]		ns/ft [ns/m]	
Capacitance		29.4 [96.46]]	pF/ft [pF/m	n]
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.)	0.38	0.55	0.85	1.03	1.3	dB/ft
	1.25	1.8	2.79	3.38	4.27	dB/m



Configuration:

- SMA Male
- SMA Male Right Angle
- 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 than1.22:1 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 the 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 www.fairviewmicrowave.com sales@fairviewmicrowave.com





VSWR (Max.)	1.08:1	1.12:1	1.2:1	1.3:1	1.4:1	
Power Handling (Max	(.) 215	150	105	88	75	W

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable Type FM141FLEX Impedance 50 Ohms

Inner Conductor Type Solid Copper Clad Steel, Silver

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

0.163 in [4.14 mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius

0.39 in [9.91 mm] 1.57 in [39.88 mm]

Silver Plated Copper Tape Silver Plated Copper Braid

Silver Plated Copper Tape

Silver Plated Copper Braid

PTFE

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Male	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500	500	
Contact Material & Plating	Brass, Gold	Brass, Gold	
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold	
Coupling Nut Material & Pla	ting Passivated Stainless Steel	Passivated Stainless Steel	
Hex Size	5/16 Inch	5/16 Inch	

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:	FMCA1036 -	XX	uu	
			l	cm = Centimeters <blank> = Inches</blank>
				Length

Example: FMCA1036-12 = 12 inches long cable

FMCA1036-100cm = 100 cm long cable

SMA Male to RA 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 Male to RA SMA Male Cable FM141FLEX Coax FMCA1036

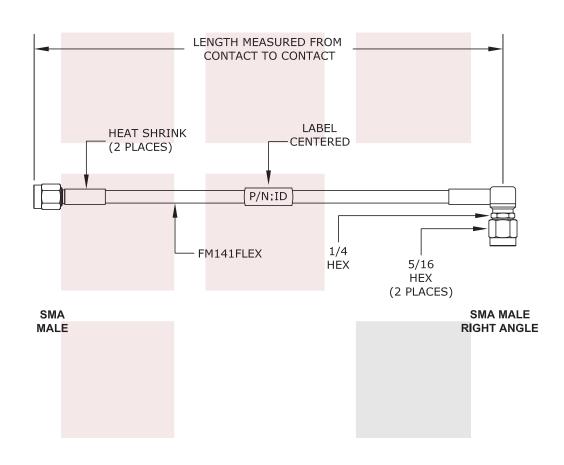
URL: https://www.fairviewmicrowave.com/sma-male-ra-sma-male-cable-fm141flex-coax-fmca1036-p.aspx

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 Male to RA SMA Male Cable FM141FLEX Coax	DWG NO FMCA1036			CAGE CODE 3FKR5		
	CAD FILE 032715	SHEET	SCALE N/	A SIZE A	150	