

FMCA1040-12 DATA SHEET

SMA Male to RA SMA Male Cable FM086FLEX Coax in 12 Inch with LF Solder

The SMA male to RA SMA male 12 inch cable using FM086FLEX coax, part number FMCA1040-12, 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 FM086FLEX coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1040-12 SMA male to SMA male cable assembly operates to 27 GHz. The right angle SMA interface on the FM086FLEX 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 FM086FLEX 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 FM086FLEX 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 RG405 semi-rigid RG405 cable.

These FM086FLEX 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 wall 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

Min	Typ	Max	Units	
	- 7 P	- 10-21		
DC		27	GHz	
		1.4:1		
		15.56	dB	
	69.5		%	
90			dB	
	1.47 [4.82]	ns/ft [ns/m]		
	29.4 [96.46	pF/ft [pF/m	າ]	
		250	Vrms	
		DC 69.5 90 1.47 [4.82]	DC 27 1.4:1 15.56 69.5 90 1.47 [4.82] 29.4 [96.46]	DC 27 GHz 1.4:1 15.56 dB 69.5 % 90 dB 1.47 [4.82] ns/ft [ns/m 29.4 [96.46] pF/ft [pF/n

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	6	12	18	27	GHz
Insertion Loss (Max.) 0.6	0.86	1.22	1.52	1.86	dB
VSWR (Max.)	1.08:1	1.12:1	1.2:1	1.3:1	1.4:1	
Power Handling (Max	.) 81	50	40	33	26	W



Configuration:

- SMA Male
- SMA Male Right Angle
- FM086FLEX

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 than 1.22:1 to 27 GHz
 Shielding effectivity > 90dB
 One time minimum bend radius: 0.24 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

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Mechanical Specifications

Cable Assembly

Length* 12 in [304.8 mm] Weight 0.04 lbs [18.14 g]

Cable

Cable Type FM086FLEX Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type **PTFE** Number of Shields 2

Shield Layer 1 Silver Plated Copper Tape Silver Plated Copper Braid Shield Layer 2 Outer Conductor Material and Plating Silver Plated Copper Tape

Jacket Material

FEP Jacket Diameter 0.104 in [2.64 mm]

One Time Minimum Bend Radius 0.23 in [5.84 mm] Repeated Minimum Bend Radius 0.78 in [19.81 mm]

Connectors

Description	Connect	or 1	Connecto	r 2		
Туре	SMA Ma	ale	SMA Mal	е		
Impedance	50 Ohr	ns	50 Ohms			
Mating Cycles	500		500			
Contact Material & Plating	Brass, G	old	Brass, Gold			
Dielectric Type	PTFE		PTFE			
Body Material & Plating	Stainless Ste	el, Gold	Stainless Stee	Stainless Steel, Gold		
Coupling Nut Material & Pla	iting Passivated Stair	nless Stee	el Passivated Stainl	ess Steel		
Hex Size	5/16 In	ch	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:

How to Order

FMCA1040 - xx Part Number Configuration: uu cm = Centimeters

lank> = Inches - Length

Example: FMCA1040-12 = 12 inches long cable

FMCA1040-100cm = 100 cm long cable





SMA Male to RA SMA Male Cable FM086FLEX Coax in 12 Inch with LF Solder 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 FM086FLEX Coax in 12 Inch with LF Solder FMCA1040-12

The information contained in this document is accurate to the best of our knowledge and representative of the part

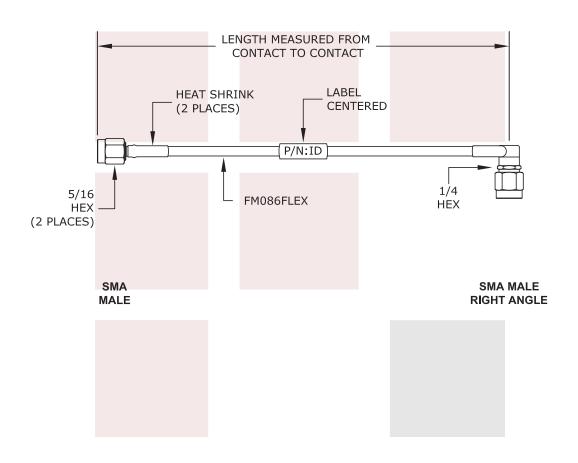
URL: https://www.fairviewmicrowave.com/sma-male-ra-sma-male-cable-fm086flex-coax-fmca1040-12-p.aspx

described	herein. It	may be	necessar	y to ma	ke modific	ations to t	he part a	nd/or t	ne docum	entation	of the par	t, in order
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SMA Male to RA SMA Male Cable FM086FLEX Coax in	DWG NO FMCA1040				CAGE CODE 3FKR5		
12 Inch with LF Solder	CAD FILE 031715	SHEET	SCALE N/A		SIZE A	150	