

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

The SMA male to SMA male 12 inch cable using FM086FLEX coax, part number FMCA1039-12, 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 FMCA1039-12 SMA male to SMA male cable assembly operates to 26.5 GHz. The double 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	Typ	Max	Units
Frequency Range	DC		26.5	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	26.5	GHz
Insertion Loss (Max.)	0.6	0.85	1.22	1.52	1.88	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

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Weight	0.035 lbs [15.88 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



Configuration:

- SMA Male
- SMA Male
- FM086FLEX

Features:

- Max Frequency 26.5 GHz
- Shielding Effectivity > 90 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles

Applications:

- General Purpose
- Laboratory 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

Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP
Jacket Diameter	0.104 in [2.64 mm]
One Time Minimum Bend Radius	0.24 in [6.1 mm]
Repeated Minimum Bend Radius	0.79 in [20.07 mm]

Connectors

Description	Connector 1	Connector 2
Type	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 & Plating	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:

How to Order

Part Number Configuration:

FMCA1039 - xx uu

 cm = Centimeters
 <blank> = Inches

Length

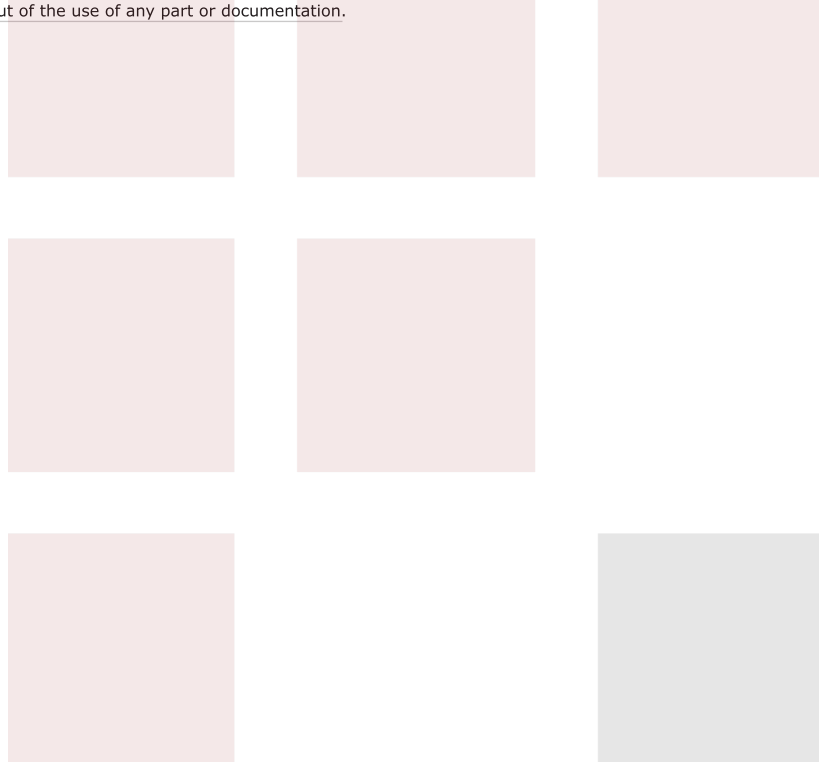
 Example: FMCA1039-12 = 12 inches long cable
 FMCA1039-100cm = 100 cm long cable

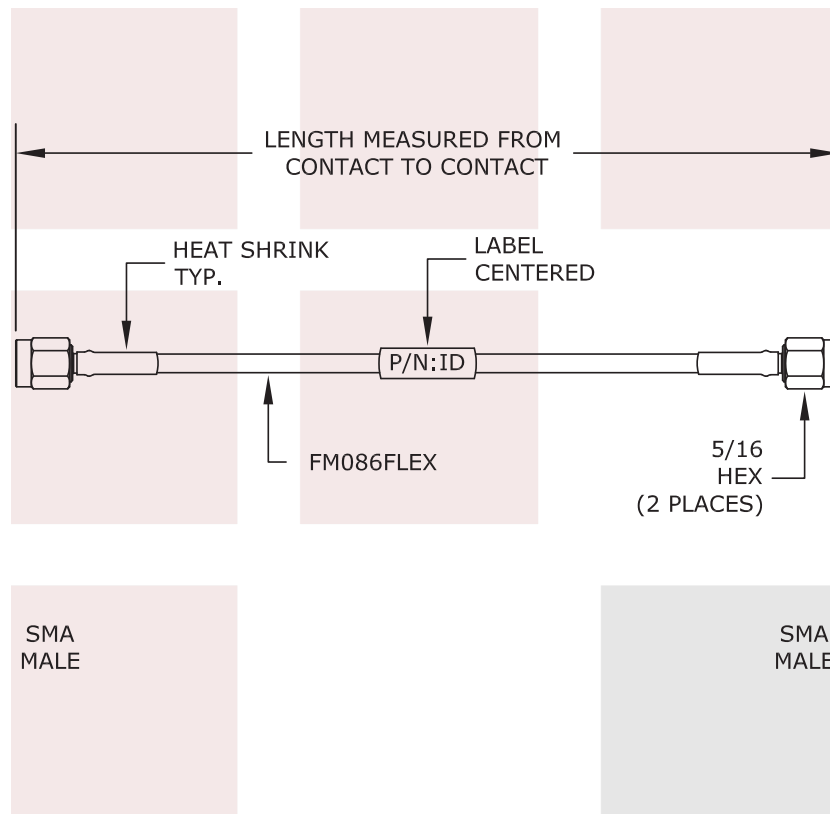
SMA Male to SMA Male Cable FM086FLEX Coax in 12 Inch with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Male to SMA Male Cable FM086FLEX Coax in 12 Inch with LF Solder FMCA1039-12](#)

URL: <https://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm086flex-coax-fmca1039-12-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.





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 FM086FLEX Coax in 12 Inch with LF Solder		DWG NO FMCA1039		CAGE CODE 3FKR5	
CAD FILE	032715	SHEET		SCALE	N/A
		SIZE	A		150