

## RA SMA Male to SMA Female 4 Hole Flange Cable RG405 Type .086 Coax

The RA SMA male to SMA female 4 hole flange cable using RG405 type .086 coax, part number FMCA2954, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to female gender configuration with 50 ohm semi-rigid FM-SR086CU-STR coax. Fairview Microwave's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. The FMCA2954 SMA male to SMA female cable assembly operates to 12.4 GHz. The right angle SMA interface on the FM-SR086CU-STR cable allows for easier connections in tight spaces. Our RF cable assembly with SMA 4 hole flange 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.

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		12.4	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
RF Shielding	-110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	12.4		GHz
Insertion Loss (Typ.)	0.22	0.316	0.477	0.896		dB/ft
	0.72	1.04	1.56	2.94		dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

##### Cable

Cable Type	FM-SR086CU-STR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1



#### Configuration:

- SMA Male Right Angle
- SMA Female 4 Hole Flange
- FM-SR086CU-STR

#### Features:

- Max Frequency 12.4 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity

#### Applications:

- General Purpose
- Laboratory Use

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Outer Conductor Material and Plating	Copper
Repeated Minimum Bend Radius	0.05 in [1.27 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Mount Method		4 Hole Flange
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	50 $\mu$ in minimum	
Dielectric Type	PTFE	PTFE
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Spec.	30 $\mu$ in minimum	
Coupling Nut Material & Plating	Brass, Nickel	
Coupling Nut Plating Spec.	100 $\mu$ in minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

**Mechanical Specification Notes:**

Maximum length using the straight semi rigid coax is 5ft. For lengths greater than 5ft, please contact us

**Environmental Specifications**
**Temperature**

Operating Range

-55 to +125 deg C

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2954 - xx uu**

cm = Centimeters

<blank> = Inches

Length

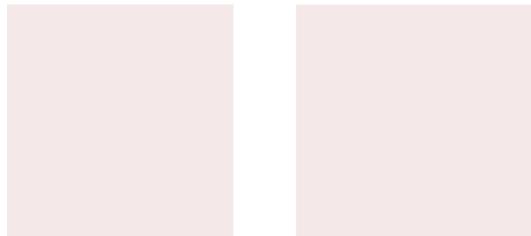
Example: FMCA2954-12 = 12 inches long cable  
 FMCA2954-100cm = 100 cm long cable

RA SMA Male to SMA Female 4 Hole Flange Cable RG405 Type .086 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.

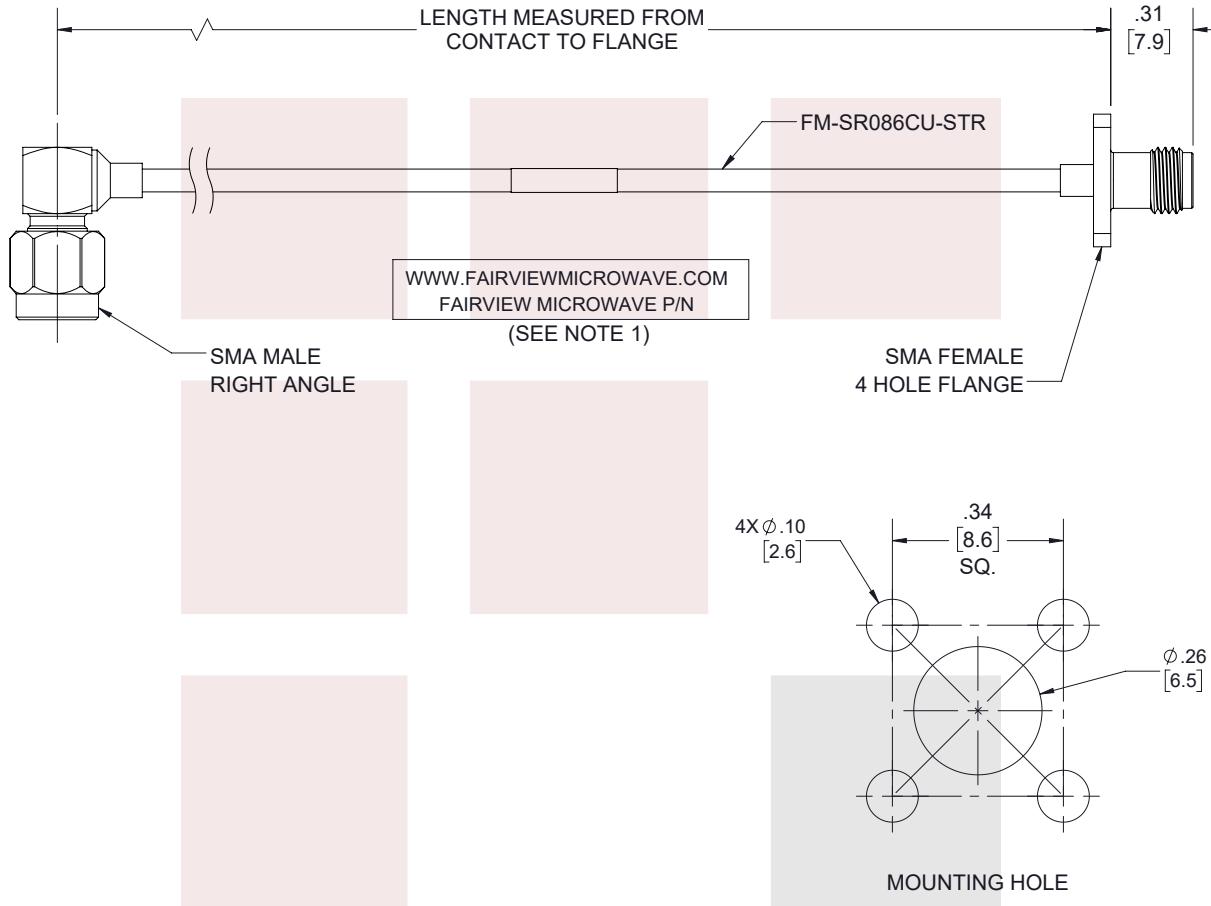
Click the following link to obtain additional part information: [RA SMA Male to SMA Female 4 Hole Flange Cable RG405 Type .086 Coax FMCA2954](https://www.fairviewmicrowave.com/ra-sma-male-to-sma-female-4-hole-flange-cable-rg405-type-.086-coax-fmca2954-p.aspx)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-to-sma-female-4-hole-flange-cable-rg405-type-.086-coax-fmca2954-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.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/03/22	AGANWANI



NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.  
CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END  
6.0" FROM THE FRONT OF THE CONNECTOR.

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<b>Fairview Microwave</b> an INFINITE <sup>®</sup> brand		UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TITLE  RA SMA Male to SMA Female 4 Hole Flange Cable RG405 Type .086 Coax		TOLERANCES: .X = ±.2 [5.08] FRACTIONS .XX = ±.02 [.51] ± 1/32 .XXX = ±.005 [.13] ANGLES ± 1°	CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 60 [1524] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE N/A	
SIZE A	CAGE CODE 3FKR5	DRAWN BY PSRINIVAS	ITEM NO. FMCA2954
			REV A

T-Rev.D