

## SMA Female 4 Hole Flange to SMA Female 4 Hole Flange Cable Tinned Aluminum RG405 Type .086 Coax

The SMA female 4 hole flange to SMA female 4 hole flange cable using Tinned Aluminum RG405 type .086 coax, part number FMCA3012, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a female to female gender configuration with 50 ohm semi-rigid FM-SR086ALTN-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 FMCA3012 SMA female to SMA female cable assembly operates to 40 GHz. 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		40	GHz
VSWR			1.5:1	

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	20	GHz
Insertion Loss (Typ.)	0.23	0.29	0.45	0.74	1.31	dB/ft
	0.75	0.95	1.48	2.43	4.3	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.022 lbs [9.98 g]

#### Cable

Cable Type FM-SR086ALTN-STR  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Tinned Aluminum



### Configuration:

- SMA Female 4 Hole Flange
- SMA Female 4 Hole Flange
- FM-SR086ALTN-STR

### Features:

- Max Frequency 40 GHz

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMA Female
Mount Method	4 Hole Flange	4 Hole Flange
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Spec.	MIL-G-45204	MIL-G-45204

Mechanical Specification Notes:

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

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMCA3012 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA3012-12 = 12 inches long cable  
 FMCA3012-100cm = 100 cm long cable

SMA Female 4 Hole Flange to SMA Female 4 Hole Flange Cable Tinned Aluminum 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: [SMA Female 4 Hole Flange to SMA Female 4 Hole Flange Cable Tinned Aluminum RG405 Type .086 Coax FMCA3012](#)

URL: <https://www.fairviewmicrowave.com/sma-female-4-hole-flange-to-sma-female-4-hole-flange-cable-tinned-aluminum-rg405-type-.086-coax-fmca3012-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.