

## SMA Female 4 Hole Flange to SMA Male Cable Tinned Aluminum RG402 Type .141 Coax

The SMA female 4 hole flange to SMA male cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2863, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a female to male gender configuration with 50 ohm semi-rigid FM-SR141ALTN-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 FMCA2863 SMA female to SMA male cable assembly operates to 18 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		18	GHz
VSWR			1.5:1	

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.13	0.166	0.258	0.423	0.66	dB/ft
	0.43	0.54	0.85	1.39	2.17	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 0.033 lbs [14.97 g]

#### Cable

Cable Type FM-SR141ALTN-STR  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Outer Conductor Material and Plating Tinned Aluminum

Repeated Minimum Bend Radius 0.15 in [3.81 mm]



### Configuration:

- SMA Female 4 Hole Flange
- SMA Male
- FM-SR141ALTN-STR

### Features:

- Max Frequency 18 GHz

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMA Male
Mount Method	4 Hole Flange	
Specification	MIL-STD-348	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Spec.	MIL-G-45204	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Spec.	MIL-G-45204	10 µin minimum
Coupling Nut Material & Plating		Brass, Nickel
Coupling Nut Plating Spec.		100 µin 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

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMCA2863 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

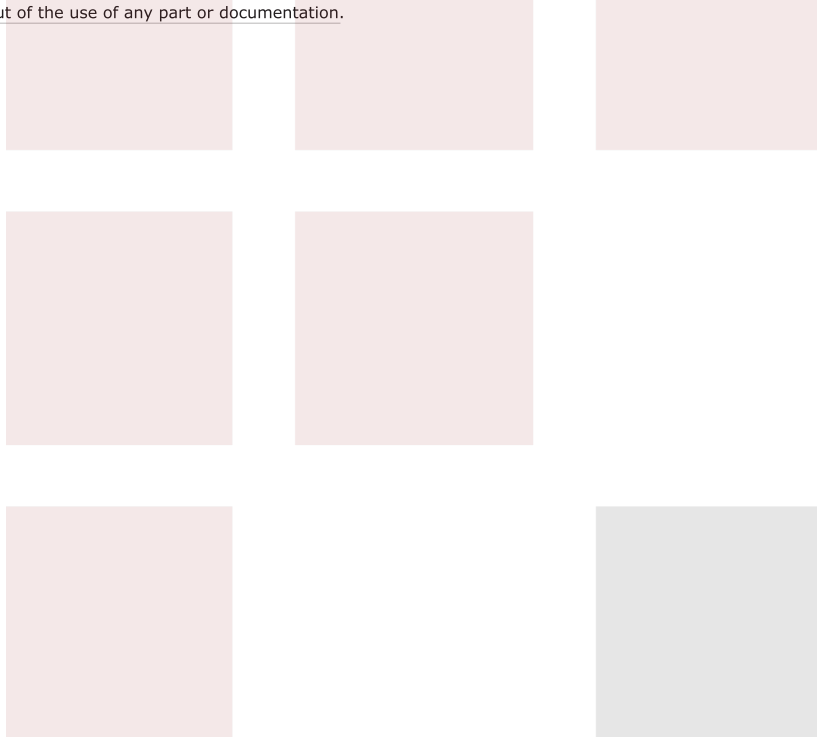
Example: FMCA2863-12 = 12 inches long cable  
 FMCA2863-100cm = 100 cm long cable

SMA Female 4 Hole Flange to SMA Male Cable Tinned Aluminum RG402 Type .141 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.

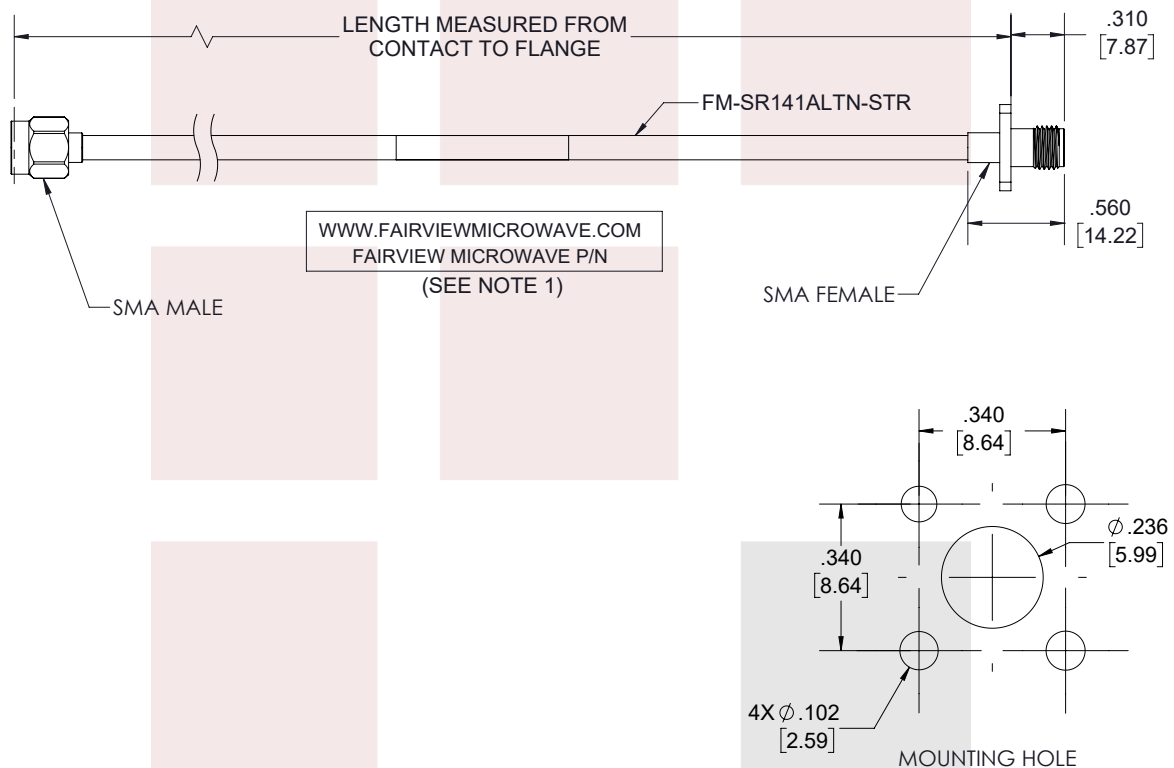
Click the following link to obtain additional part information: [SMA Female 4 Hole Flange to SMA Male Cable Tinned Aluminum RG402 Type .141 Coax FMCA2863](https://www.fairviewmicrowave.com/sma-female-4-hole-flange-to-sma-male-cable-tinned-aluminum-rg402-type-.141-coax-fmca2863)

URL: <https://www.fairviewmicrowave.com/sma-female-4-hole-flange-to-sma-male-cable-tinned-aluminum-rg402-type-.141-coax-fmca2863-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	07/21/2022	AGANWANI



**NOTES:**

- 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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TITLE

SMA Female 4 Hole Flange to SMA Male Cable Tinned  
Aluminum RG402 Type .141 Coax

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

**TOLERANCES:**

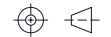
.X =  $\pm$  .2 [5.08] FRACTIONS  
.XX =  $\pm$  .02 [.51]  $\pm$  1/32  
.XXX =  $\pm$  .005 [.13] ANGLES  $\pm$  1°

**CABLE LENGTH (L) TOLERANCES:**

L  $\leq$  12 [305] =  $\pm$  1 [25] / -0  
12 [305] < L  $\leq$  60 [1524] =  $\pm$  2 [51] / -0  
60 [1524] < L  $\leq$  120 [3048] =  $\pm$  4 [102] / -0  
120 [3048] < L  $\leq$  300 [7620] =  $\pm$  6 [152] / -0  
300 [7620] < L =  $\pm$  5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**THIRD-ANGLE PROJECTION**



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SHEET 1 OF 1

SCALE

N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	PSRINIVAS	FMCA2863	A

T-Rev.D