

2.92mm Female 4 Hole Flange to 2.92mm Female 4 Hole Flange Cable RG405 Type .086 Coax in 12 Inch

The 2.92mm female 4 hole flange to 2.92mm female 4 hole flange 12 inch cable using RG405 type .086 coax, part number FMCA2963-12, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm cable assembly has a female 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 FMCA2963-12 2.92mm female to 2.92mm female cable assembly operates to 40 GHz. Our RF cable assembly with 2.92mm 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	
Velocity of Propagation		69.5		%
RF Shielding	-110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			500	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20		GHz
Insertion Loss (Typ.)	0.51	0.67	1	1.4		dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Weight	0.0388 lbs [17.6 g]

Cable

Cable Type	FM-SR086CU-STR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver



Configuration:

- 2.92mm Female 4 Hole Flange
- 2.92mm Female 4 Hole Flange
- FM-SR086CU-STR

Features:

- Max Frequency 40 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

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Dielectric Type	PTFE
Number of Shields	1
Outer Conductor Material and Plating	Copper
Repeated Minimum Bend Radius	0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	2.92mm Female	2.92mm 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.	50µ in. minimum	50µ in. minimum
Dielectric Type	ULTEM	ULTEM
Outer Cond Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Spec.	50µ in. minimum	50µ in. minimum

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:

FMCA2963 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMCA2963-12 = 12 inches long cable
 FMCA2963-100cm = 100 cm long cable

2.92mm Female 4 Hole Flange to 2.92mm Female 4 Hole Flange Cable RG405 Type .086 Coax in 12 Inch 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.

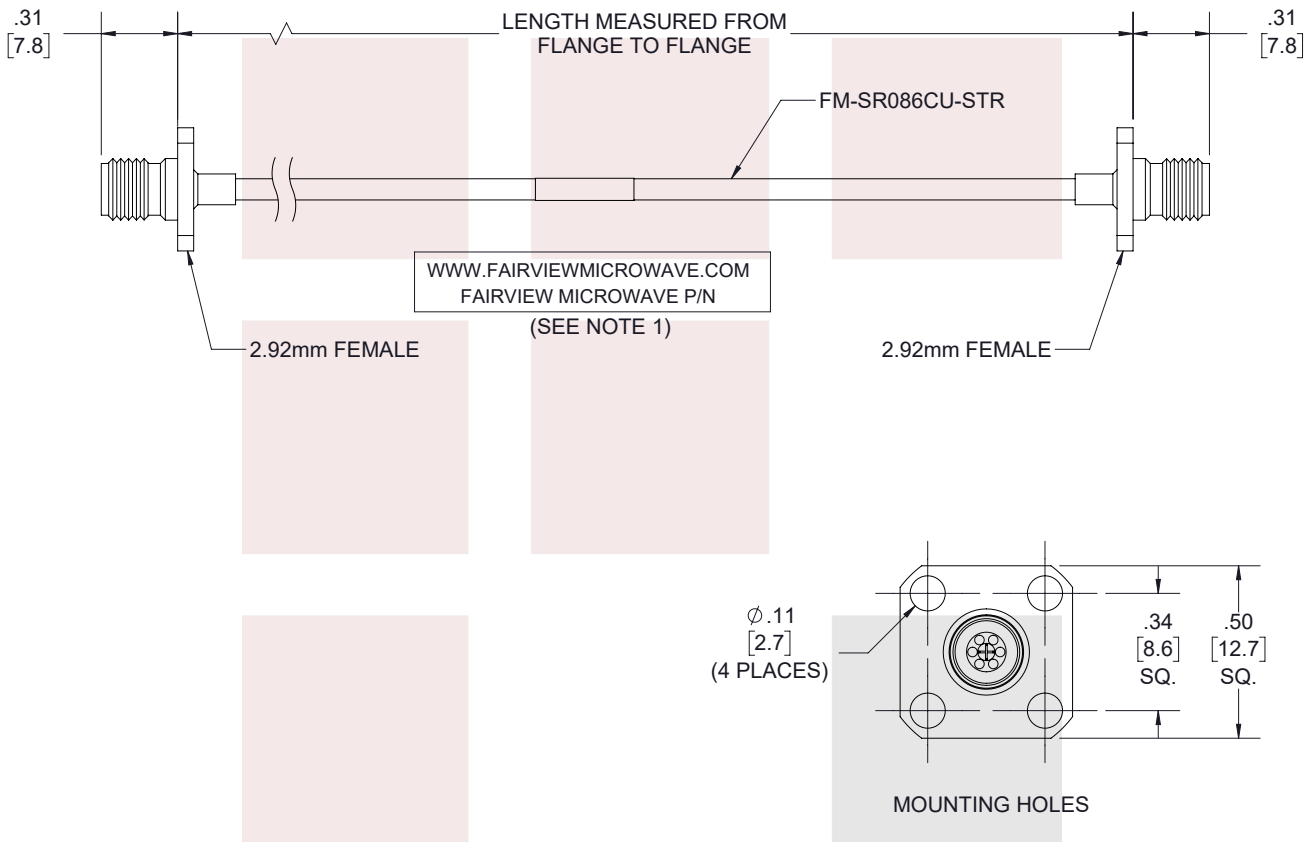
Click the following link to obtain additional part information: [2.92mm Female 4 Hole Flange to 2.92mm Female 4 Hole Flange Cable RG405 Type .086 Coax in 12 Inch FMCA2963-12](https://www.fairviewmicrowave.com/2.92mm-female-4-hole-flange-to-2.92mm-female-4-hole-flange-cable-rg405-type-.086-coax-fmca2963-12)

URL: <https://www.fairviewmicrowave.com/2.92mm-female-4-hole-flange-to-2.92mm-female-4-hole-flange-cable-rg405-type-.086-coax-fmca2963-12-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.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/26/2022	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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TITLE

2.92mm Female 4 Hole Flange to 2.92mm Female 4
Hole Flange Cable RG405 Type .086 Coax in 12 Inch

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

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
12 [305] < 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

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	FMCA2963	A

T-Rev.D