

2.92mm Female 4 Hole Flange to 2.92mm Female 4 Hole Flange Cable RG405 Type .086 Coax in 48 Inch

The 2.92mm female 4 hole flange to 2.92mm female 4 hole flange 48 inch cable using RG405 type .086 coax, part number FMCA2963-48, 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 FMCA2963-48 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.) | 1.44 | 2.08 | 3.4 | 5 | | 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* 48 in [121.92 cm]
 Weight 0.0778 lbs [35.29 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

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

| | |
|--------------------------------------|-------------------|
| 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 48 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.

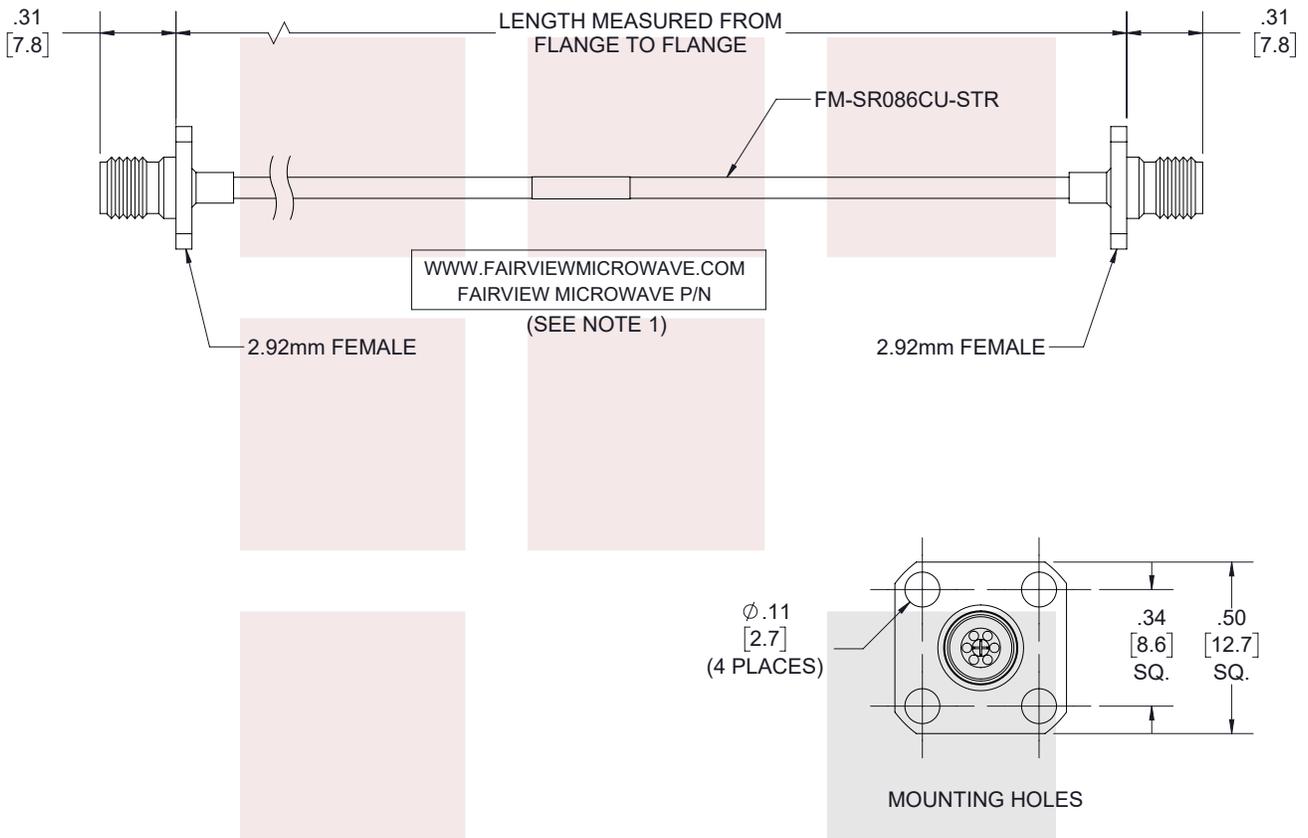
Click the following link to obtain additional part information: [2.92mm Female 4 Hole Flange to 2.92mm Female 4 Hole Flange Cable RG405 Type .086 Coax in 48 Inch FMCA2963-48](https://www.fairviewmicrowave.com/2.92mm-female-4-hole-flange-to-2.92mm-female-4-hole-flange-cable-rg405-type-.086-coax-fmca2963-48)

URL: <https://www.fairviewmicrowave.com/2.92mm-female-4-hole-flange-to-2.92mm-female-4-hole-flange-cable-rg405-type-.086-coax-fmca2963-48-p.aspx>

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| 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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|---|--|----------------------------------|--|---------------------|
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| | <p>TITLE</p> <p>2.92mm Female 4 Hole Flange to 2.92mm Female 4 Hole Flange Cable RG405 Type .086 Coax in 48 Inch</p> | | <p>SHEET 1 OF 1</p> | |
| <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | | | <p>SCALE</p> <p>N/A</p> | |
| <p>SIZE</p> <p>A</p> | <p>CAGE CODE</p> <p>3FKR5</p> | <p>DRAWN BY</p> <p>PSRINIVAS</p> | <p>ITEM NO.</p> <p>FMCA2963</p> | <p>REV</p> <p>A</p> |

T-Rev.D