

## 2.92mm Male to 2.92mm Female 4 Hole Flange Cable RG405 Type .086 Coax in 36 Inch

The 2.92mm male to 2.92mm female 4 hole flange 36 inch cable using RG405 type .086 coax, part number FMCA2961-36, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm 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 FMCA2961-36 2.92mm male 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.) | 1.13 | 1.61 | 2.6 | 3.8 |    | 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* | 36 in [914.4 mm]     |
| Weight  | 0.0589 lbs [26.72 g] |

#### 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                      |



### Configuration:

- 2.92mm Male
- 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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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 Male                        | 2.92mm Female              |
| Mount Method                    |                                    | 4 Hole Flange              |
| Impedance                       | 50 Ohms                            | 50 Ohms                    |
| Contact Material & Plating      | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold     |
| Contact Plating Spec.           | 50 µin minimum                     | 50µ in. minimum            |
| Dielectric Type                 | PCTFE                              | ULTEM                      |
| Outer Cond Material & Plating   |                                    | Passivated Stainless Steel |
| Body Material & Plating         | Beryllium Copper, Gold over Nickel | Stainless Steel, Gold      |
| Body Plating Spec.              | 50 µin minimum                     | 50µ in. minimum            |
| Coupling Nut Material & Plating | Passivated Stainless Steel         |                            |
| Hex Size                        | 5/16 inch                          |                            |
| Torque                          | 8 in-lbs 0.9 Nm                    |                            |

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA2961 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

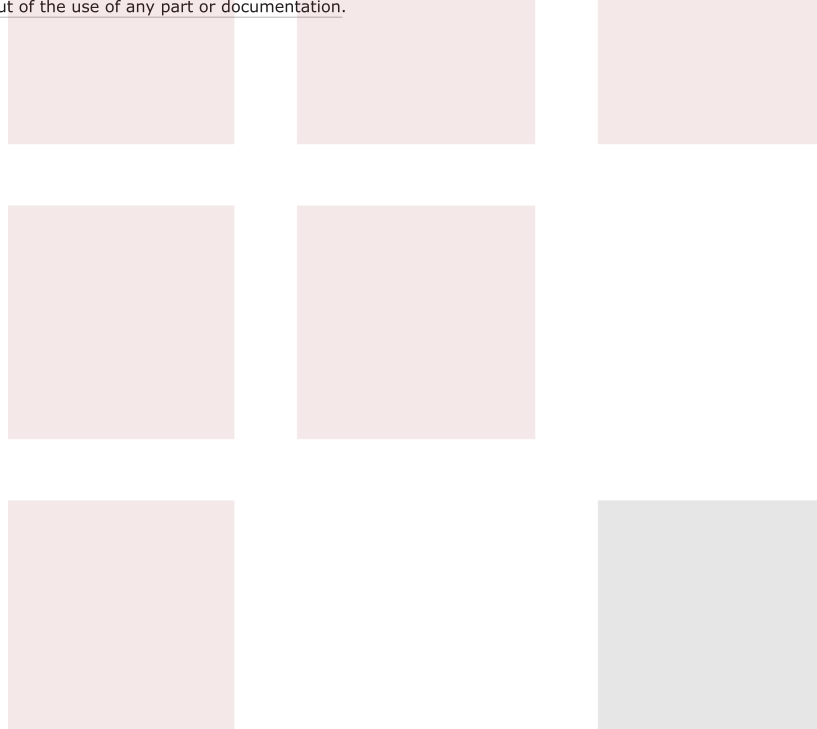
Example: FMCA2961-12 = 12 inches long cable  
 FMCA2961-100cm = 100 cm long cable

2.92mm Male to 2.92mm Female 4 Hole Flange Cable RG405 Type .086 Coax in 36 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.

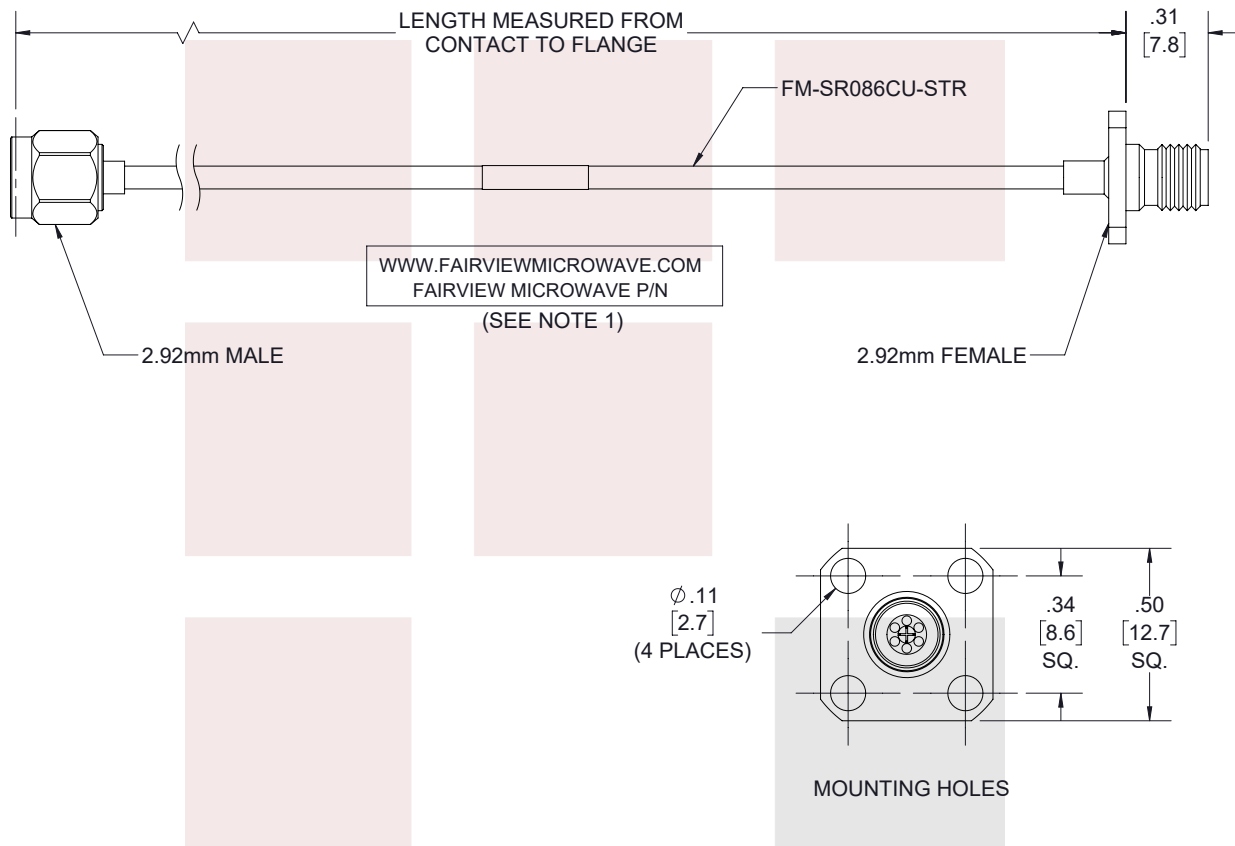
Click the following link to obtain additional part information: [2.92mm Male to 2.92mm Female 4 Hole Flange Cable RG405 Type .086 Coax in 36 Inch FMCA2961-36](https://www.fairviewmicrowave.com/2.92mm-male-to-2.92mm-female-4-hole-flange-cable-rg405-type-.086-coax-fmca2961-36)

URL: <https://www.fairviewmicrowave.com/2.92mm-male-to-2.92mm-female-4-hole-flange-cable-rg405-type-.086-coax-fmca2961-36-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 Male to 2.92mm Female 4 Hole Flange Cable  
RG405 Type .086 Coax in 36 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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY  | ITEM NO. | REV |
|------|-----------|-----------|----------|-----|
| A    | 3FKR5     | PSRINIVAS | FMCA2961 | A   |

T-Rev.D