

SMA Female 2 Hole Flange to SMA Female 2 Hole Flange Cable Tinned Copper RG405 Type .086 Coax in 12 Inch

The SMA female 2 hole flange to SMA female 2 hole flange cable using Tinned Copper RG405 type .086 coax, part number FMCA3078-12, 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-SR086CUTN-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 FMCA3078-12 SMA female to SMA female cable assembly operates to 18 GHz. Our RF cable assembly with SMA 2 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.) | 0.42 | 0.48 | 0.64 | 0.93 | 1.32 | dB/ft |
| | 1.38 | 1.57 | 2.1 | 3.05 | 4.33 | dB/m |

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 0.025 lbs [11.34 g]

Cable

Cable Type FM-SR086CUTN-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 Copper

One Time Minimum Bend Radius 0.05 in [1.27 mm]



Configuration:

- SMA Female 2 Hole Flange
- SMA Female 2 Hole Flange
- FM-SR086CUTN-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 Female |
| Mount Method | 2 Hole Flange | 2 Hole Flange |
| Specification | MIL-STD-348 | MIL-STD-348 |
| 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 |

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:

FMCA3078 - xx uu

 cm = Centimeters
 <blank> = Inches

Length

 Example: FMCA3078-12 = 12 inches long cable
 FMCA3078-100cm = 100 cm long cable

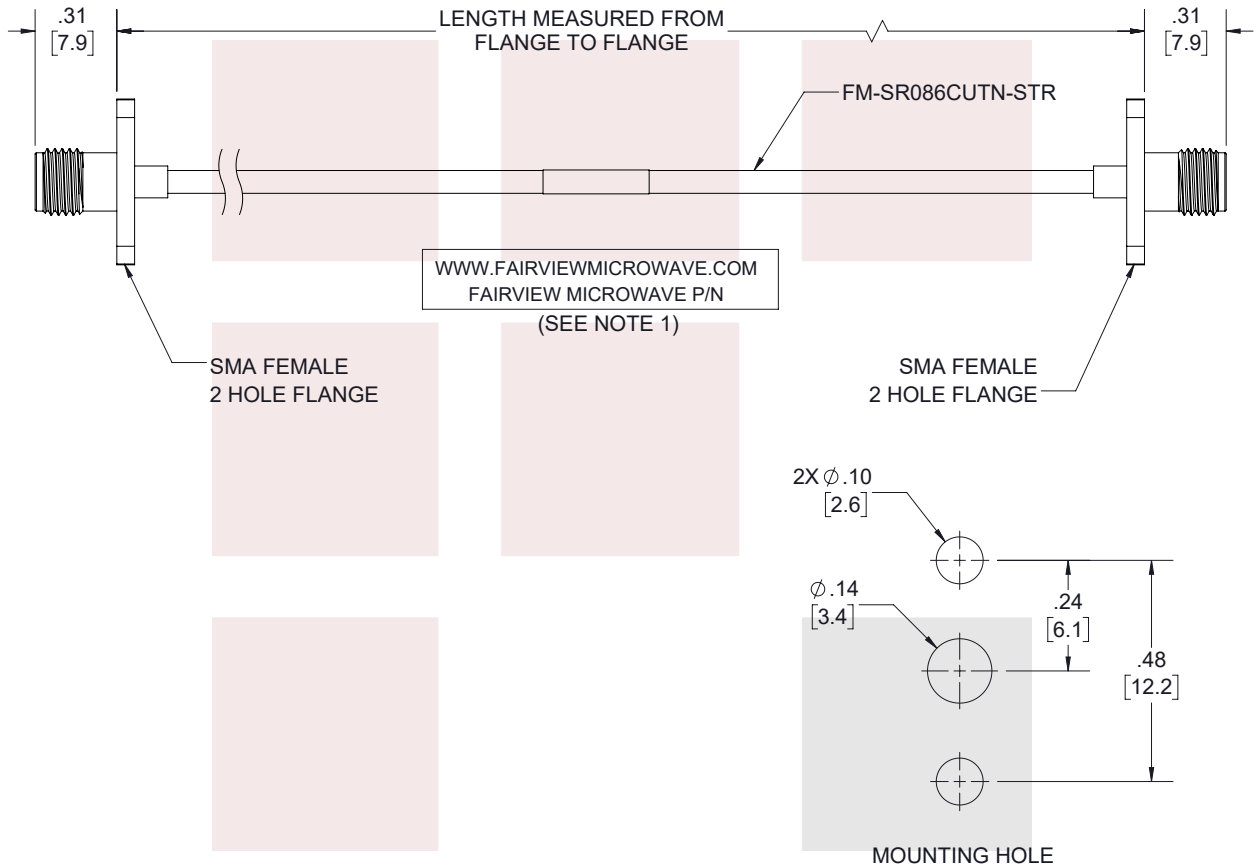
SMA Female 2 Hole Flange to SMA Female 2 Hole Flange Cable Tinned Copper RG405 Type .086 Coax in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Female 2 Hole Flange to SMA Female 2 Hole Flange Cable Tinned Copper RG405 Type .086 Coax in 12 Inch FMCA3078-12](#)

URL: <https://www.fairviewmicrowave.com/sma-female-2-hole-flange-to-sma-female-2-hole-flange-cable-tinned-copper-rg405-type-.086-coax-fmca3078-12-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 | 07/25/22 | 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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|---|--|---------------------|--|--|
| <p>Fairview Microwave an INFINIT[®] brand</p> | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES: CABLE LENGTH (L) TOLERANCES:</p> <p>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</p> <p>.X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]</p> | | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> | |
| | <p>TITLE</p> <p>SMA Female 2 Hole Flange to SMA Female 2 Hole Flange Cable Tinned Copper RG405 Type .086 Coax in 12 Inch</p> | | <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> | |
| <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | | | | |
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY VTHANGARAJ | ITEM NO. FMCA3078 | |
| | | | REV A | |

T-Rev.D