

2.4mm Male to 2.4mm Male Cable Tinned Aluminum RG405 Type .086 Coax

The 2.4mm male to 2.4mm male cable using Tinned Aluminum RG405 type .086 coax, part number FMCA2987, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm semi-rigid FM-SR086ALTN-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 FMCA2987 2.4mm male to 2.4mm male cable assembly operates to 40 GHz.

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 | |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 1 | 2.5 | 5 | 10 | 20 | GHz |
| Insertion Loss (Typ.) | 0.23 | 0.32 | 0.48 | 0.81 | 1.31 | dB/ft |
| | 0.75 | 1.05 | 1.57 | 2.66 | 4.3 | 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 0.016 lbs [7.26 g]

Cable

Cable Type FM-SR086ALTN-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

One Time Minimum Bend Radius 0.05 in [1.27 mm]



Configuration:

- 2.4mm Male
- 2.4mm Male
- FM-SR086ALTN-STR

Features:

- Max Frequency 40 GHz
- 500 Mating Cycles

Applications:

- General Purpose
- Laboratory Use

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|------------------------------------|------------------------------------|
| Type | 2.4mm Male | 2.4mm Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | 500 |
| Contact Material & Plating | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Contact Plating Spec. | MIL-G-45204 | MIL-G-45204 |
| Dielectric Type | PPO | PPO |
| Body Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Body Plating Spec. | ASTM-A380 | ASTM-A380 |
| Coupling Nut Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Plating Spec. | ASTM-A380 | ASTM-A380 |
| Hex Size | 5/16 inch | 5/16 inch |
| Torque | 8 in-lbs 0.9 Nm | 8 in-lbs 0.9 Nm |

Mechanical Specification Notes:

Maximum length using the straight semi rigid coax is 5ft. For lengths greater than 5ft, please contact us

Environmental Specifications
Temperature

Operating Range -55 to +100 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2987 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA2987-12 = 12 inches long cable
 FMCA2987-100cm = 100 cm long cable

2.4mm Male to 2.4mm Male Cable Tinned Aluminum RG405 Type .086 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.

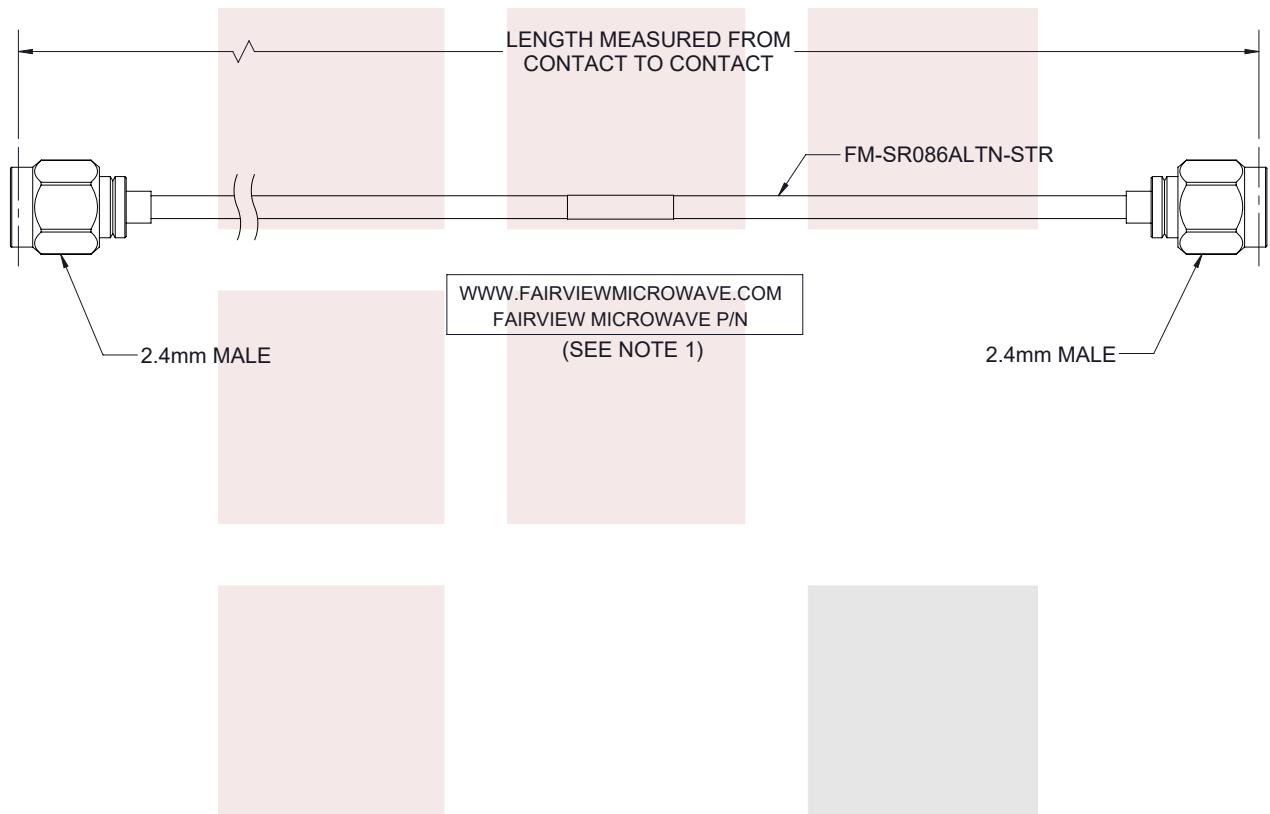
Click the following link to obtain additional part information: [2.4mm Male to 2.4mm Male Cable Tinned Aluminum RG405 Type .086 Coax FMCA2987](https://www.fairviewmicrowave.com/2.4mm-male-to-2.4mm-male-cable-tinned-aluminum-rg405-type-.086-coax-fmca2987)

URL: <https://www.fairviewmicrowave.com/2.4mm-male-to-2.4mm-male-cable-tinned-aluminum-rg405-type-.086-coax-fmca2987-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 | 8/4/2022 | 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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|---|---|--------------------|--|---|
| <p>Fairview Microwave an INFINIT[®] brand</p> | UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | THIRD-ANGLE PROJECTION | |
| | TOLERANCES: | | CABLE LENGTH (L) TOLERANCES: | |
| TITLE 2.4mm Male to 2.4mm Male Cable Tinned Aluminum RG405 Type .086 Coax | .X = ±.2 [.51] | FRACTIONS ± 1/32 | L ≤ 12 [305] = +1 [25] / -0 | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1 |
| | .XX = ±.02 [.51] | ANGLES ± 1° | 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 | |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | | | | SCALE N/A |
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY PSRINIVAS | ITEM NO. FMCA2987 | REV A |

T-Rev.D