

## RA SMA Male to SMA Female Bulkhead Cable RG405 Type .086 Coax in 24 Inch

The RA SMA male to SMA female bulkhead 24 inch cable using RG405 type .086 coax, part number FMCA2294-24, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to female gender configuration with 50 ohm semi-rigid FM-SR086ALTN 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 FMCA2294-24 SMA male to SMA female cable assembly operates to 10 GHz. The right angle SMA interface on the FM-SR086ALTN cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead 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  |     | 10    | GHz   |
| VSWR                                 |     |     | 1.5:1 |       |
| Dielectric Withstanding Voltage (AC) |     |     | 5,000 | Vrms  |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.5  | 1    | 2.5  | 5    | 10   | GHz   |
| Insertion Loss (Typ.) | 0.65 | 0.71 | 0.91 | 1.23 | 1.87 | 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 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

### Mechanical Specifications

#### Cable Assembly

|          |                  |
|----------|------------------|
| Length*  | 24 in [609.6 mm] |
| Diameter | 0.433 in [11 mm] |

#### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | FM-SR086ALTN              |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 1                         |



### Configuration:

- SMA Male Right Angle
- SMA Female Bulkhead
- FM-SR086ALTN

### Features:

- Max Frequency 10 GHz

### Applications:

- General Purpose
- Laboratory Use

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|                                      |                    |
|--------------------------------------|--------------------|
| Outer Conductor Material and Plating | Tinned Aluminum    |
| Outer Conductor Diameter             | 0.086 in [2.18 mm] |
| One Time Minimum Bend Radius         | 0.05 in [1.27 mm]  |

### Connectors

| Description                     | Connector 1                | Connector 2                        |
|---------------------------------|----------------------------|------------------------------------|
| Type                            | SMA Male                   | SMA Female                         |
| Mount Method                    |                            | Bulkhead                           |
| Impedance                       | 50 Ohms                    | 50 Ohms                            |
| Contact Material & Plating      | Brass, Gold over Nickel    | Beryllium Copper, Gold over Nickel |
| Contact Plating Spec.           | 8 µin minimum              |                                    |
| Dielectric Type                 | PTFE                       | PTFE                               |
| Body Material & Plating         | Brass, Gold over Nickel    | Brass, Gold over Nickel            |
| Body Plating Spec.              | 4 µin minimum              |                                    |
| Coupling Nut Material & Plating | Passivated Stainless Steel |                                    |
| Hex Size                        | 5/16 inch                  |                                    |
| Torque                          | 8 in-lbs 0.9 Nm            |                                    |

### 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:

**FMCA2294 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2294-12 = 12 inches long cable  
 FMCA2294-100cm = 100 cm long cable

RA SMA Male to SMA Female Bulkhead Cable RG405 Type .086 Coax in 24 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.

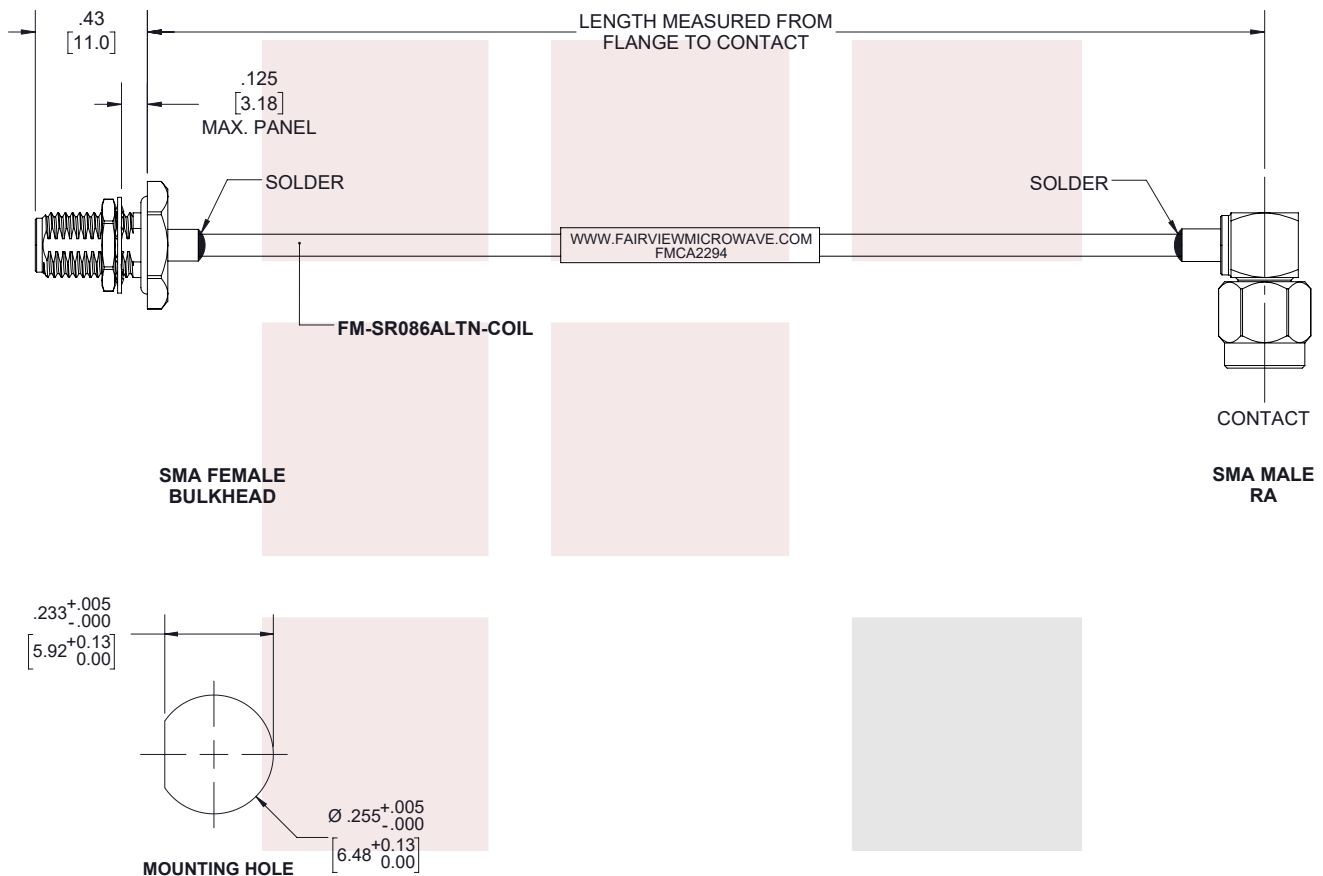
Click the following link to obtain additional part information: [RA SMA Male to SMA Female Bulkhead Cable RG405 Type .086 Coax in 24 Inch FMCA2294-24](https://www.fairviewmicrowave.com/ra-sma-male-sma-female-cable-rg405-type-.086-coax-fmca2294-24-p.aspx)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-sma-female-cable-rg405-type-.086-coax-fmca2294-24-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 | 4/15/2021 | S.ELLIS  |



**NOTES:**

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

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|                                                                                     |  |                                                                                                       |  |                                                                                                                            |  |
|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------|--|
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| <p>TITLE</p>                                                                        |  | <p>TOLERANCES:</p>                                                                                    |  | <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> |  |
| <p>RA SMA Male to SMA Female Bulkhead Cable RG405<br/>Type .086 Coax in 24 Inch</p> |  | <p>CABLE LENGTH (L) TOLERANCES:</p>                                                                   |  | <p>SHEET 1 OF 1</p>                                                                                                        |  |
| <p>SIZE A</p>                                                                       |  | <p>CAGE CODE 3FKR5</p>                                                                                |  | <p>SCALE N/A</p>                                                                                                           |  |
| <p>DRAWN BY K.DANG</p>                                                              |  | <p>ITEM NO. FMCA2294</p>                                                                              |  | <p>REV A</p>                                                                                                               |  |

T-Rev.D