

## SMA Male to SMA Female Bulkhead Cable Tinned Aluminum RG405 Type .086 Coax in 24 Inch Length

The SMA male to SMA female bulkhead 24 inch cable using Tinned Aluminum RG405 type .086 coax, part number FMCA3004-24, 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-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 FMCA3004-24 SMA male to SMA female cable assembly operates to 18 GHz. 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  |     | 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.) | 0.66 | 0.79 | 1.11 | 1.69 | 2.62 | 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* | 24 in [609.6 mm]    |
| Weight  | 0.032 lbs [14.51 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           |
| Outer Conductor Diameter             | 0.086 in [2.18 mm]        |

|                              |                   |
|------------------------------|-------------------|
| One Time Minimum Bend Radius | 0.05 in [1.27 mm] |
|------------------------------|-------------------|



### Configuration:

- SMA Male
- SMA Female Bulkhead
- FM-SR086ALTN-STR

### Features:

- Max Frequency 18 GHz

### 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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## 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 |
| Dielectric Type                 | PTFE                       | PTFE                               |
| Body Material & Plating         | Brass, Gold over Nickel    | Brass, Gold over Nickel            |
| 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:

**FMCA3004 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA3004-12 = 12 inches long cable  
 FMCA3004-100cm = 100 cm long cable

SMA Male to SMA Female Bulkhead Cable Tinned Aluminum RG405 Type .086 Coax in 24 Inch Length 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 Male to SMA Female Bulkhead Cable Tinned Aluminum RG405 Type .086 Coax in 24 Inch Length FMCA3004-24](#)

URL: <https://www.fairviewmicrowave.com/sma-male-to-sma-female-bulkhead-cable-rg405-type-.086-coax-fmca3004-24-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.

