

## 2.4mm Male to 2.4mm Female Bulkhead Cable RG405 Type .086 Coax in 12 Inch

The 2.4mm male to 2.4mm female bulkhead 12 inch cable using RG405 type .086 coax, part number FMCA2933-12, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm 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 FMCA2933-12 2.4mm male to 2.4mm female cable assembly operates to 40 GHz. Our RF cable assembly with 2.4mm 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		40	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
RF Shielding	-110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz
Insertion Loss (Typ.)	0.53	0.69	1.01	1.51	2.51	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*	12 in [304.8 mm]
Weight	0.038 lbs [17.24 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
Number of Shields	1



### Configuration:

- 2.4mm Male
- 2.4mm Female Bulkhead
- FM-SR086CU-STR

### Features:

- Max Frequency 40 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity

### 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)

Outer Conductor Material and Plating      Copper  
Repeated Minimum Bend Radius            0.05 in [1.27 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Female
Mount Method		Bulkhead
Specification		IEEE-STD-P287
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material & Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Spec.	MIL-G-45204	50 µin minimum
Dielectric Type	PPO	PEI
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	ASTM-A380	SAE-AMS-2700
Coupling Nut Material & Plating	Passivated Stainless Steel	
Coupling Nut Plating Spec.	ASTM-A380	
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:

**FMCA2933 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMCA2933-12 = 12 inches long cable  
FMCA2933-100cm = 100 cm long cable

2.4mm Male to 2.4mm Female Bulkhead Cable 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.

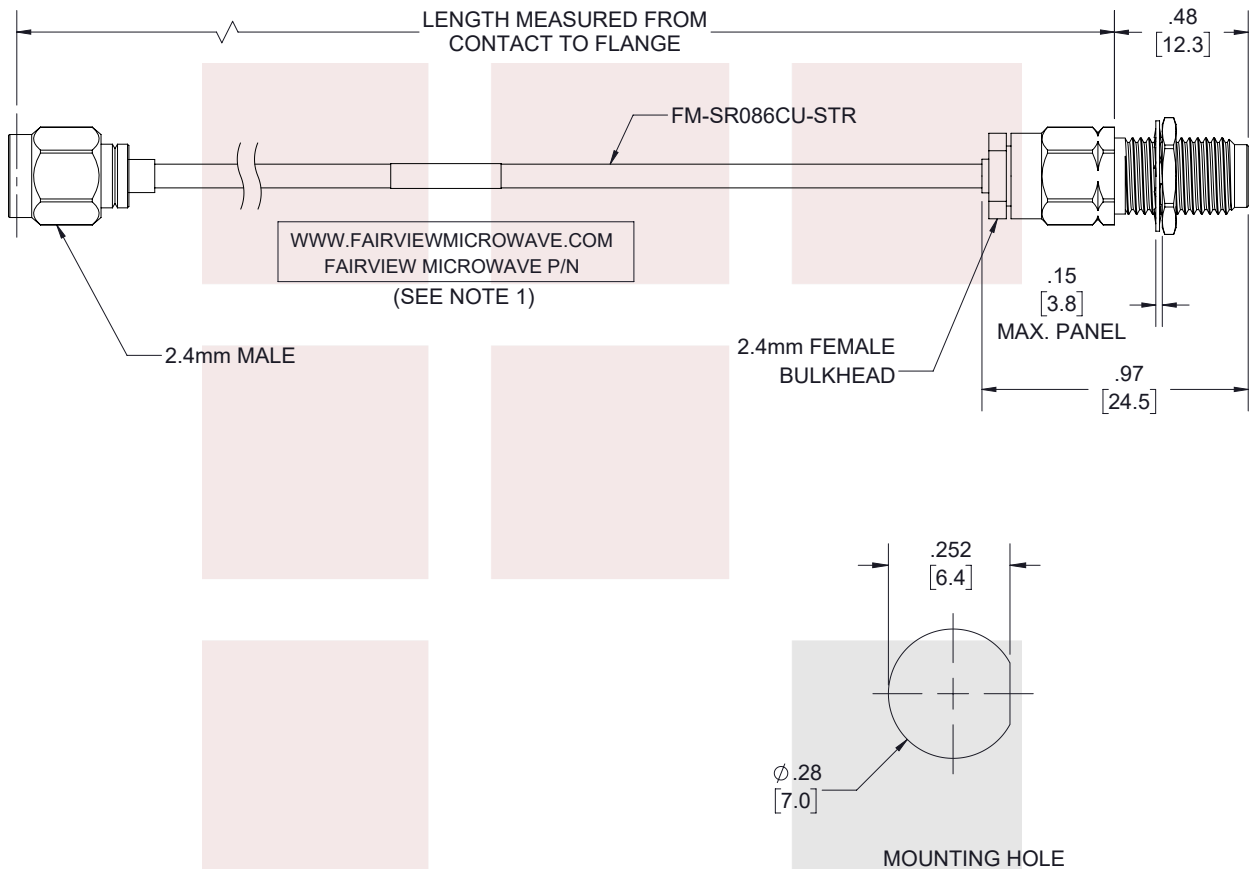
Click the following link to obtain additional part information: [2.4mm Male to 2.4mm Female Bulkhead Cable RG405 Type .086 Coax in 12 Inch FMCA2933-12](https://www.fairviewmicrowave.com/2.4mm-male-to-2.4mm-female-bulkhead-cable-rg405-type-.086-coax-in-12-inch-fm-ca2933-12)

URL: <https://www.fairviewmicrowave.com/2.4mm-male-to-2.4mm-female-bulkhead-cable-rg405-type-.086-coax-fm-ca2933-12-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	08/02/2022	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.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES: CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2 [5.08]</td> <td>FRACTIONS</td> <td>L ≤ 12 [305] = +1 [25] / -0</td> </tr> <tr> <td>.XX = ±.02 [.51]</td> <td>± 1/32</td> <td>12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0</td> </tr> <tr> <td>.XXX = ±.005 [.13]</td> <td>ANGLES ± 1°</td> <td>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td></td> <td></td> <td>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0</td> </tr> <tr> <td></td> <td></td> <td>300 [7620] &lt; L = +5%L / -0</td> </tr> </table>		.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0	.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0	.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0			120 [3048] < L ≤ 300 [7620] = +6 [152] / -0			300 [7620] < L = +5%L / -0	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p>
	.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0															
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0																
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0																
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0																
		300 [7620] < L = +5%L / -0																
<p>TITLE</p> <p>2.4mm Male to 2.4mm Female Bulkhead Cable RG405 Type .086 Coax in 12 Inch</p>	<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p>SHEET 1 OF 1</p> <p>SCALE N/A</p>																
<p>SIZE A</p>	<p>CAGE CODE 3FKR5</p>	<p>DRAWN BY PSRINIVAS</p>	<p>ITEM NO. FMCA2933</p>															
			<p>REV A</p>															

T-Rev.D