

## RA MMCX Plug to RA MMCX Plug Cable RG405 Type .086 Coax

The RA MMCX plug to RA MMCX plug cable using RG405 type .086 coax, part number FMCA2971, from Fairview Microwave is in-stock and ships same day. This Fairview MMCX to MMCX cable assembly has a plug to plug 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 FMCA2971 MMCX plug to MMCX plug cable assembly operates to 6 GHz. The right angle MMCX interfaces on the FM-SR086CU-STR cable allow for easier connections in tight spaces.

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  |     | 6     | GHz   |
| VSWR            |     |     | 1.5:1 |       |

### Performance by Frequency

| Description           | F1    | F2   | F3   | F4    | F5    | Units |
|-----------------------|-------|------|------|-------|-------|-------|
| Frequency             | 0.25  | 0.5  | 1    | 2.5   | 6     | GHz   |
| Insertion Loss (Typ.) | 0.055 | 0.11 | 0.22 | 0.317 | 0.542 | dB/ft |
|                       | 0.18  | 0.36 | 0.72 | 1.04  | 1.78  | dB/m  |

### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.021 lbs [9.53 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  
Shield Layer 1 Copper



### Configuration:

- MMCX Plug Right Angle
- MMCX Plug Right Angle
- FM-SR086CU-STR

### Features:

- Max Frequency 6 GHz

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

| Description                | Connector 1           | Connector 2           |
|----------------------------|-----------------------|-----------------------|
| Type                       | MMCX Plug             | MMCX Plug             |
| Impedance                  | 50 Ohms               | 50 Ohms               |
| Contact Material & Plating | Phosphor Bronze, Gold | Phosphor Bronze, Gold |
| Dielectric Type            | PTFE                  | PTFE                  |
| Body Material & Plating    | Brass, Gold           | Brass, Gold           |

### Mechanical Specification Notes:

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

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

## Plotted and Other Data

### Notes:

- Values at 25°C, sea level.

## How to Order

Part Number Configuration:

**FMCA2971 - xx uu**

cm = Centimeters

<blank> = Inches

Length

Example: FMCA2971-12 = 12 inches long cable  
 FMCA2971-100cm = 100 cm long cable

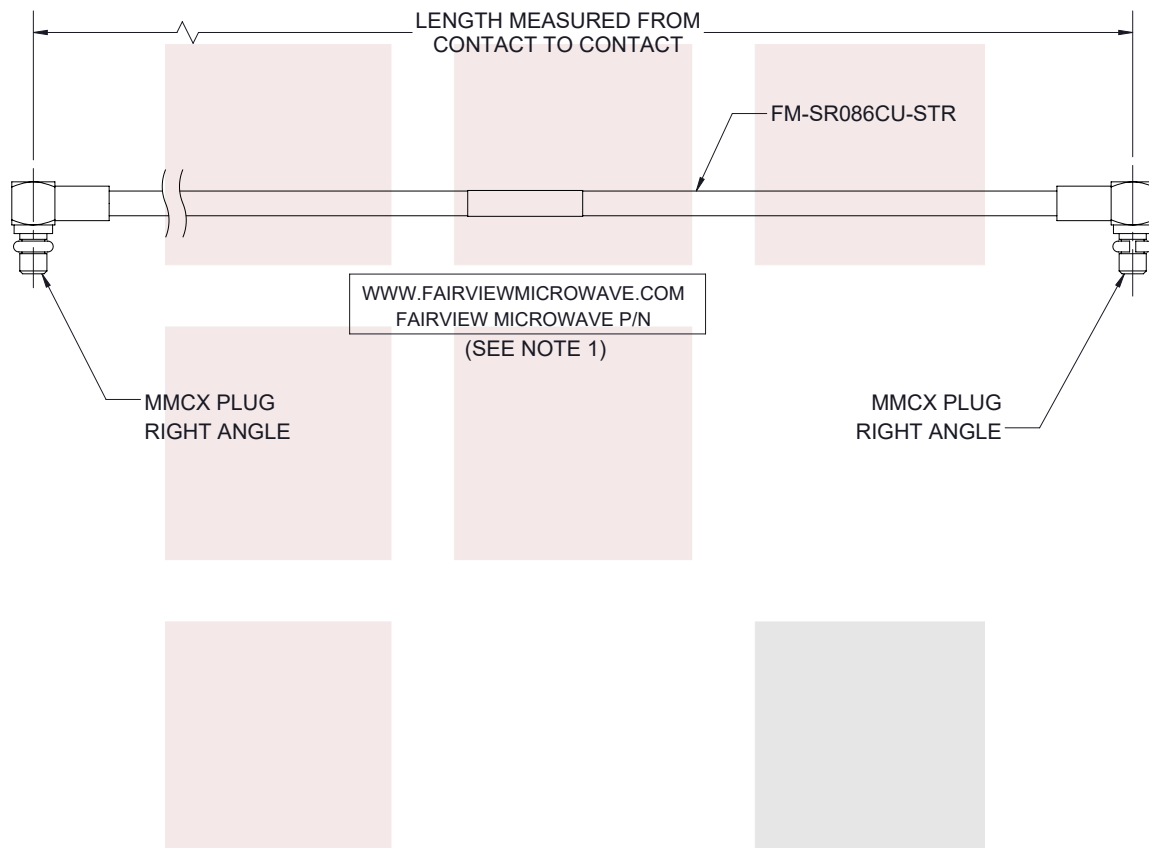
RA MMCX Plug to RA MMCX Plug Cable RG405 Type .086 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RA MMCX Plug to RA MMCX Plug Cable RG405 Type .086 Coax FMCA2971](#)

URL: <https://www.fairviewmicrowave.com/ra-mmcx-plug-to-ra-mmcx-plug-cable-rg405-type-.086-coax-fmca2971-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.

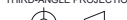
| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 07/25/2022 | AGANWANI |



**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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| <div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div> <div><div>Fairview Microwave</div><div>an INFINITI® brand</div></div> |                 | <div>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</div> <div><div>TOLERANCES:</div><div><div>.X = ±.2 [ .508 ]</div><div>FRACTIONS</div><div>12 [ 305 ] &lt; L ≤ 60 [ 1524 ] = +2 [ 51 ] / -0</div></div><div><div>.XX = ±.02 [ .51 ]</div><div>± 1/32</div><div>60 [ 1524 ] &lt; L ≤ 120 [ 3048 ] = +4 [ 102 ] / -0</div></div><div><div>.XXX = ±.005 [ .13 ]</div><div>ANGLES ± 1°</div><div>120 [ 3048 ] &lt; L ≤ 300 [ 7620 ] = +6 [ 152 ] / -0</div></div><div><div>300 [ 7620 ] &lt; L = +5%L / -0</div></div></div> <div><div>CABLE LENGTH (L) TOLERANCES:</div><div><div>L ≤ 12 [ 305 ] = +1 [ 25 ] / -0</div><div>12 [ 305 ] &lt; L ≤ 60 [ 1524 ] = +2 [ 51 ] / -0</div><div>60 [ 1524 ] &lt; L ≤ 120 [ 3048 ] = +4 [ 102 ] / -0</div><div>120 [ 3048 ] &lt; L ≤ 300 [ 7620 ] = +6 [ 152 ] / -0</div><div>300 [ 7620 ] &lt; L = +5%L / -0</div></div></div> <div><div>THIRD-ANGLE PROJECTION</div><div></div><div>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</div></div> |                   |           |  |
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| RA MMCX Plug to RA MMCX Plug Cable RG405 Type .086 Coax                                                                                                                                         |                 | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |           |  |
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| SIZE A                                                                                                                                                                                          | CAGE CODE 3FKR5 | DRAWN BY PSRINIVAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ITEM NO. FMCA2971 | REV A     |  |

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