

**RA MMCX Plug to RA SMA Male Cable Tinned Copper  
 RG405 Type .086 Coax with LF Solder**

The RA MMCX plug to RA SMA male cable using Tinned Copper RG405 type .086 coax, part number FMCA3102, from Fairview Microwave is in-stock and ships same day. This Fairview MMCX to SMA cable assembly has a plug to male gender configuration with 50 ohm semi-rigid FM-SR086CUTN-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 FMCA3102 MMCX plug to SMA male cable assembly operates to 6 GHz. The right angle MMCX and right angle SMA interfaces on the FM-SR086CUTN-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.


**Configuration:**

- MMCX Plug Right Angle
- SMA Male Right Angle
- FM-SR086CUTN-STR

**Features:**

- Max Frequency 6 GHz

**Applications:**

- General Purpose
- Laboratory Use

**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	1	2.5	6			GHz
Insertion Loss (Typ.)	0.22	0.316	0.542			dB/ft
	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**

Length\* 0 in [0 mm]  
 Weight 0.032 lbs [14.51 g]

**Cable**

Cable Type FM-SR086CUTN-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 Tinned Copper

One Time Minimum Bend Radius 0.05 in [1.27 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	MMCX Plug	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Phosphor Bronze, Gold over Nickel	Brass, Gold
Contact Plating Spec.		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold over Nickel	Stainless Steel, Gold
Body Plating Spec.		30 µin minimum
Coupling Nut Material & Plating		Brass, Nickel
Coupling Nut Plating Spec.		100 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs 0.34 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 +125 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA3102 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA3102-12 = 12 inches long cable  
 FMCA3102-100cm = 100 cm long cable

RA MMCX Plug to RA SMA Male Cable Tinned Copper RG405 Type .086 Coax with LF Solder 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.

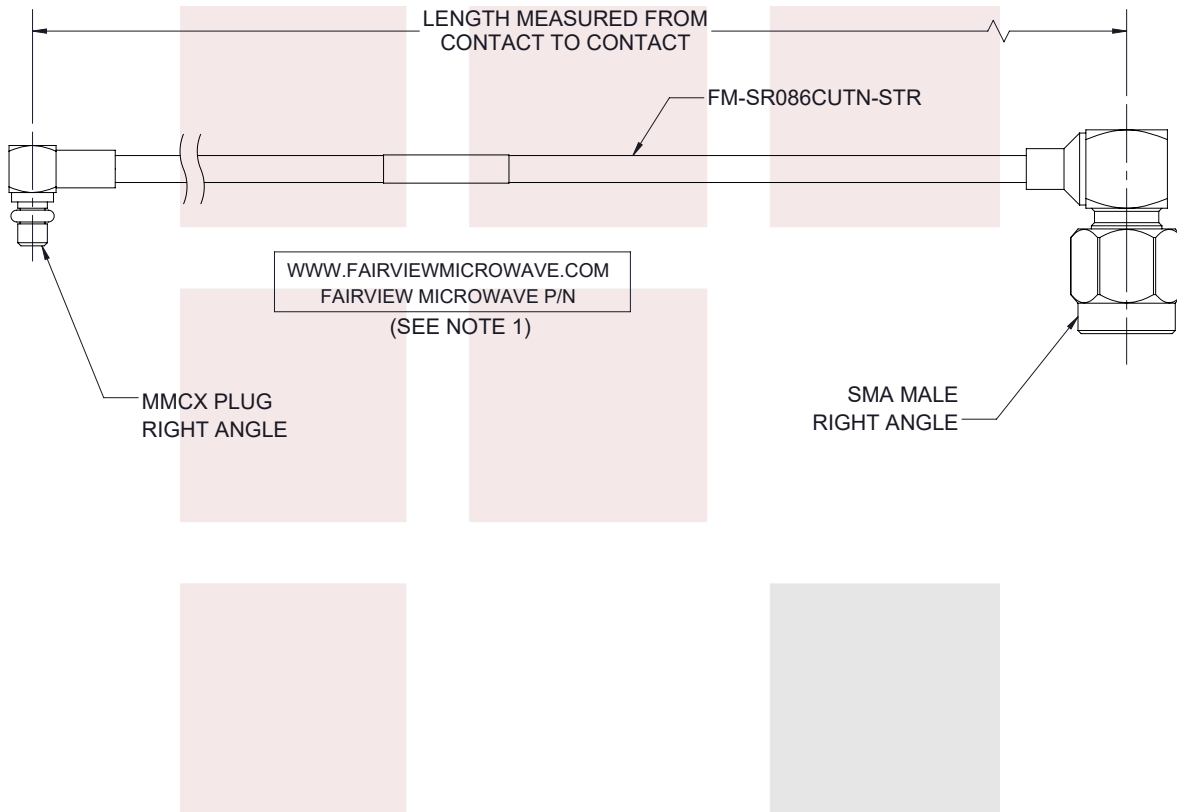
Click the following link to obtain additional part information: [RA MMCX Plug to RA SMA Male Cable Tinned Copper RG405 Type .086 Coax with LF Solder FMCA3102](https://www.fairviewmicrowave.com/ra-mmcx-plug-to-ra-sma-male-cable-tinned-copper-rg405-type-.086-coax-with-lf-solder-fmca3102)

URL: <https://www.fairviewmicrowave.com/ra-mmcx-plug-to-ra-sma-male-cable-tinned-copper-rg405-type-.086-coax-with-lf-solder-fmca3102-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	07/18/22	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><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 [ .508]</td> <td>FRACTIONS ± 1/32</td> <td>L ≤ 12 [305] = +1 [25] / -0</td> </tr> <tr> <td>.XX = ±.02 [ .51]</td> <td></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 [ .508]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	.XX = ±.02 [ .51]		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>
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<p>SIZE A</p>	<p>CAGE CODE 3FKR5</p>	<p>DRAWN BY VTHANGARAJ</p>	<p>ITEM NO. FMCA3102</p>	<p>REV A</p>														

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