

MMCX Plug to SMA Male Cable RG405 Type .086 Coax

The MMCX plug to SMA male cable using RG405 type .086 coax, part number FMCA2972, 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-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 FMCA2972 MMCX plug to SMA male cable assembly operates to 6 GHz.

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	
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	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 0.1 dB per connector.

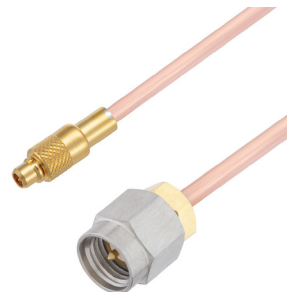
Mechanical Specifications

Cable Assembly

Weight 0.024 lbs [10.89 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
Outer Conductor Material and Plating Copper
Repeated Minimum Bend Radius 0.05 in [1.27 mm]



Configuration:

- MMCX Plug
- SMA Male
- FM-SR086CU-STR

Features:

- Max Frequency 6 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

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Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold over Nickel
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Gold over Nickel
Coupling Nut Material & Plating	Passivated Stainless Steel	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

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:

How to Order

Part Number Configuration:

FMCA2972 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA2972-12 = 12 inches long cable
 FMCA2972-100cm = 100 cm long cable

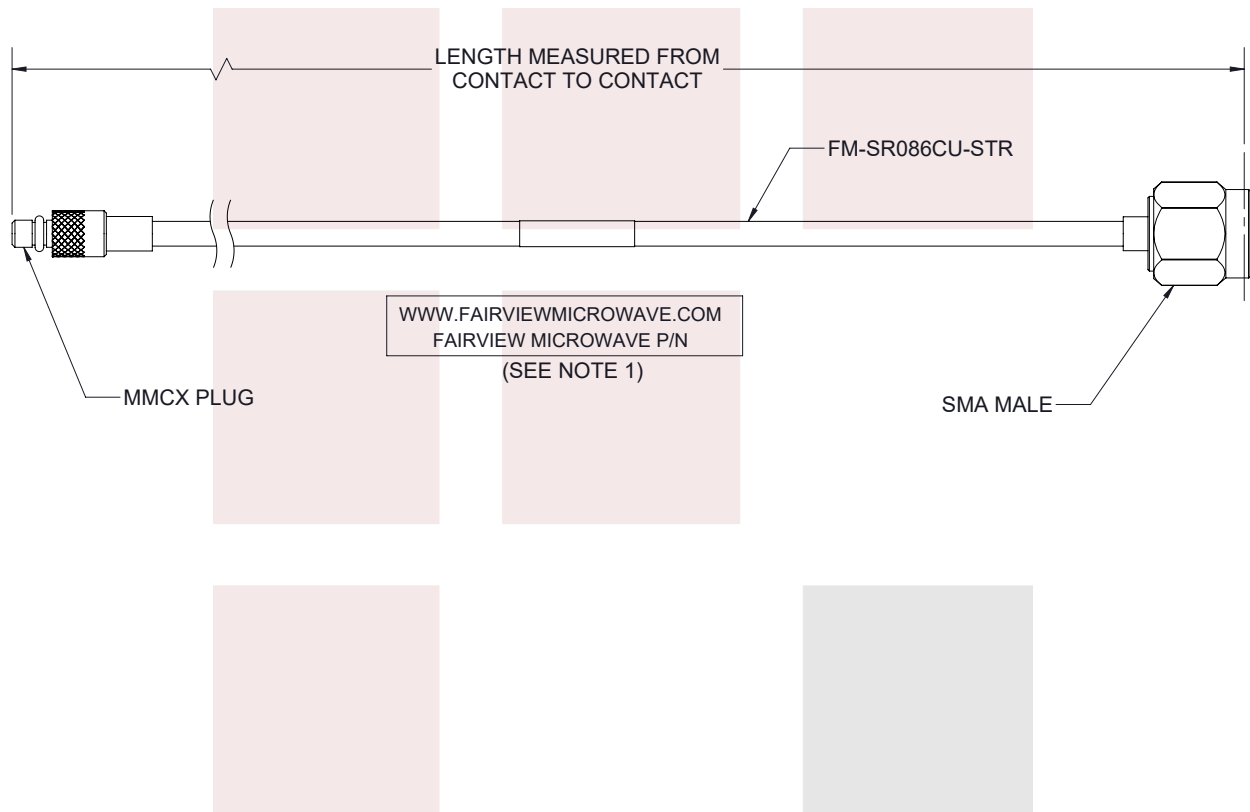
MMCX Plug to SMA Male Cable RG405 Type .086 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [MMCX Plug to SMA Male Cable RG405 Type .086 Coax FMCA2972](#)

URL: <https://www.fairviewmicrowave.com/mmcx-plug-to-sma-male-cable-rg405-type-.086-coax-fmca2972-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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MMCX Plug to SMA Male Cable RG405 Type .086 Coax		CABLE LENGTH (L) TOLERANCES:		SHEET 1 OF 1	
SIZE A		CAGE CODE 3FKR5		SCALE N/A	
DRAWN BY PSRINIVAS		ITEM NO. FMCA2972		REV A	

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