

RA SMA Male to RA SMA Male Cable RG402 Type .141 Coax in 12 Inch

The RA SMA male to RA SMA male 12 inch cable using RG402 type .141 coax, part number FMCA2209-12, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm semi-rigid FM-SR141CU-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 FMCA2209-12 SMA male to SMA male cable assembly operates to 10 GHz. The right angle SMA interfaces on the FM-SR141CU-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		10	GHz
Velocity of Propagation		69.5		%

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	10		GHz
Insertion Loss (Typ.)	0.52	0.58	0.67	0.85		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 0.2 dB per connector.

Mechanical Specifications

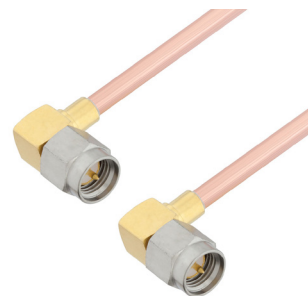
Cable Assembly

Length*	12 in [304.8 mm]
Weight	0.042 lbs [19.05 g]

Cable

Cable Type	FM-SR141CU-STR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Outer Conductor Material and Plating	Copper

Repeated Minimum Bend Radius	0.25 in [6.35 mm]
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Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- FM-SR141CU-STR

Features:

- Max Frequency 10 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

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sales@fairviewmicrowave.com

Connectors

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

FMCA2209 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA2209-12 = 12 inches long cable
 FMCA2209-100cm = 100 cm long cable

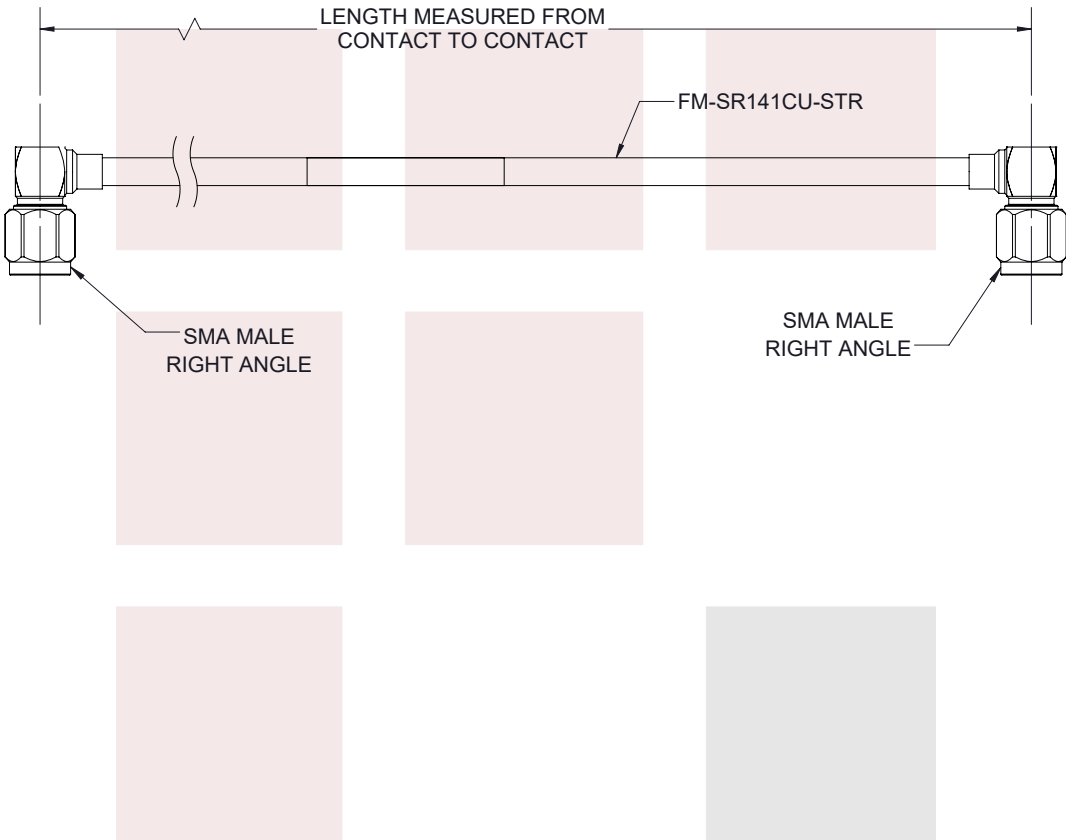
RA SMA Male to RA SMA Male Cable RG402 Type .141 Coax in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RA SMA Male to RA SMA Male Cable RG402 Type .141 Coax in 12 Inch FMCA2209-12](#)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-to-ra-sma-male-cable-rg402-type-.141-coax-in-12-inch-fm-ca2209-12-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	06/27/2022	AGANWANI



- NOTES:
- 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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Fairview Microwave an INFINITE brand		UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		THIRD-ANGLE PROJECTION 	
TITLE RA SMA Male to RA SMA Male Cable RG402 Type .141 Coax in 12 Inch		TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
		.X = ±.2 [.51] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]		L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	
		ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SHEET 1 OF 1	
		SIZE A CAGE CODE 3FKR5 DRAWN BY PSRINIVAS ITEM NO. FMCA2209		SCALE N/A	
				REV A	

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