

RA SMA Male to RA SMA Male Cable Tinned Aluminum RG401 Type .250 Coax

The RA SMA male to RA SMA male cable using Tinned Aluminum RG401 type .250 coax, part number FMCA3135, 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-SR250ALTN-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 FMCA3135 SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interfaces on the FM-SR250ALTN-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		12.4	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5	%	
Capacitance		29.6 [97.11]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)		7,500		Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	12.4		GHz
Insertion Loss (Typ.)	0.08	0.123	0.195	0.376		dB/ft
	0.26	0.4	0.64	1.23		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 0.1 lbs [45.36 g]

Cable

Cable Type FM-SR250ALTN-STR
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Shield Layer 1 Tinned Aluminum
 Jacket Diameter 0.25 in [6.35 mm]



Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- FM-SR250ALTN-STR

Features:

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

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One Time Minimum Bend Radius 0.25 in [6.35 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Gold	Brass, Gold
Coupling Nut Material & Plating	Brass, Gold	Brass, Gold
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs 0.57 Nm	5 in-lbs 0.57 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:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA3135 - xx uu

cm = Centimeters

<blank> = Inches

Length

 Example: FMCA3135-12 = 12 inches long cable
 FMCA3135-100cm = 100 cm long cable

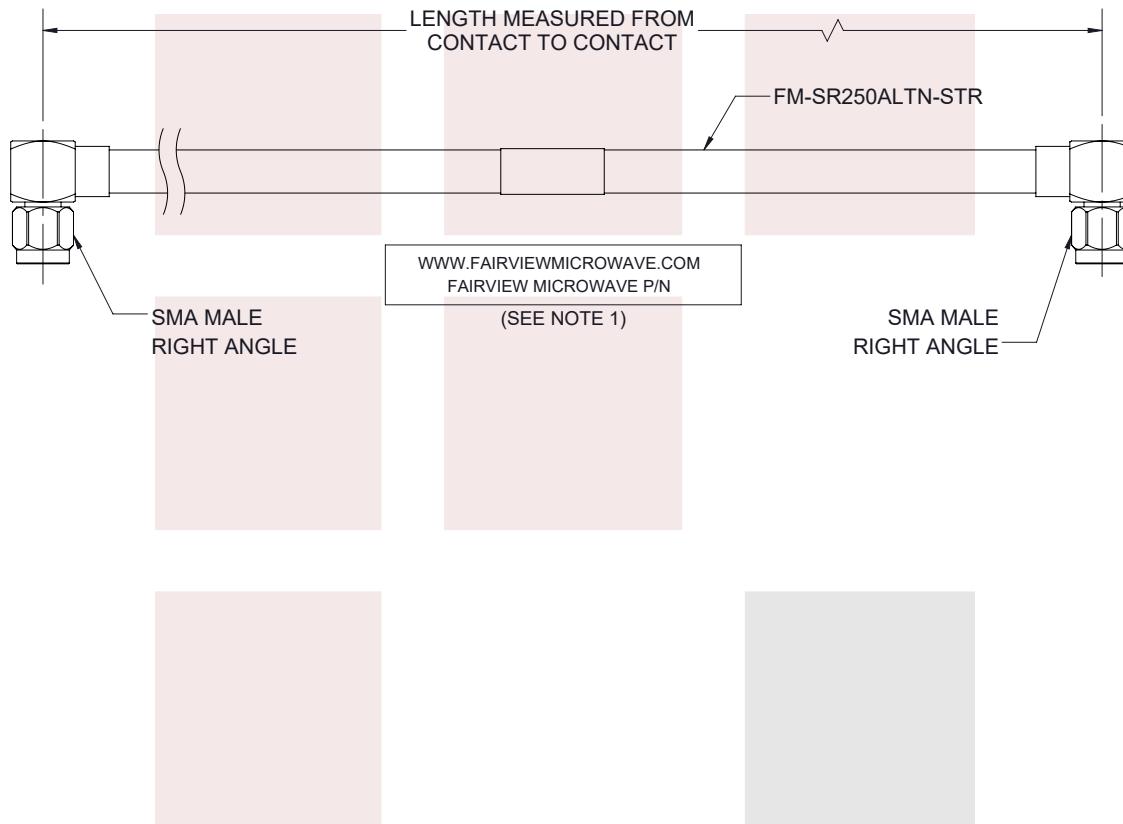
RA SMA Male to RA SMA Male Cable Tinned Aluminum RG401 Type .250 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

 Click the following link to obtain additional part information: [RA SMA Male to RA SMA Male Cable Tinned Aluminum RG401 Type .250 Coax FMCA3135](#)

 URL: <https://www.fairviewmicrowave.com/ra-sma-male-to-ra-sma-male-cable-tinned-aluminum-rg401-type-.250-coax-fmca3135-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.

REVISED			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/29/22	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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	TOLERANCES:	CABLE LENGTH (L) TOLERANCES:	
TITLE RA SMA Male to RA SMA Male Cable Tinned Aluminum RG401 Type .250 Coax	$.X = \pm .2$ [5.08] $.XX = \pm .02$ [.51] $.XXX = \pm .005$ [.13]	FRACTIONS $\pm 1/32$ ANGLES $\pm 1^\circ$	$L \leq 12$ [305] = ± 1 [25] / -0 12 [305] < $L \leq 60$ [1524] = ± 2 [51] / -0 60 [1524] < $L \leq 120$ [3048] = ± 4 [102] / -0 120 [3048] < $L \leq 300$ [7620] = ± 6 [152] / -0 300 [7620] < $L = \pm 5\%$ / -0
	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE N/A
	SIZE A	CAGE CODE 3FKR5	DRAWN BY VTHANGARAJ
			ITEM NO. FMCA3135
			REV A

T-Rev.D