

SMA Male to RA SMA Male Cable Tinned Aluminum RG401 Type .250 Coax in 60 Inch

The SMA male to RA SMA male 60 inch cable using Tinned Aluminum RG401 type .250 coax, part number FMCA3133-60, 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 FMCA3133-60 SMA male to SMA male cable assembly operates to 12 GHz. The right angle SMA interface on the FM-SR250ALTN-STR cable allows 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	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		GHz
Insertion Loss (Typ.)	0.7	0.92	1.28	2.15		dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length*	60 in [152.4 cm]
Weight	0.332 lbs [150.59 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



Configuration:

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

Features:

- Max Frequency 12 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Shield Layer 1	Tinned Aluminum
Jacket Diameter	0.25 in [6.35 mm]
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	Gold	Brass, Gold
Dielectric Type	PTFE	Teflon
Body Material & Plating	Brass, Gold	Brass, Gold
Coupling Nut Material & Plating	Brass, Nickel	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:

Cable assemblies that are 60 inches or less use straight coax, greater than 60 inches use coiled coax

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:

FMCA3133 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMCA3133-12 = 12 inches long cable
 FMCA3133-100cm = 100 cm long cable

SMA Male to RA SMA Male Cable Tinned Aluminum RG401 Type .250 Coax in 60 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: [SMA Male to RA SMA Male Cable Tinned Aluminum RG401 Type .250 Coax in 60 Inch FMCA3133-60](#)

URL: <https://www.fairviewmicrowave.com/sma-male-to-ra-sma-male-cable-rg401-type-.250-coax-fmca3133-60-p.aspx>

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