

RA SMA Male to RA SMA Male Cable Tinned Aluminum RG402 Type .141 Coax in 50 CM

The RA SMA male to RA SMA male 50 cm cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2864-50CM, 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-SR141ALTN-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 FMCA2864-50CM SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interfaces on the FM-SR141ALTN-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	
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	12.4		GHz
Insertion Loss (Typ.)	0.62	0.71	0.86	1.26		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*	19.68 in [499.87 mm]
Weight	0.062 lbs [28.12 g]

Cable

Cable Type	FM-SR141ALTN-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 Aluminum
Jacket Diameter	0.141 in [3.58 mm]

One Time Minimum Bend Radius	0.1 in [2.54 mm]
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Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- FM-SR141ALTN-STR

Features:

- Max Frequency 12.4 GHz

Applications:

- General Purpose
- Laboratory Use

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	50µ in. minimum	50µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Spec.	30µ in. minimum	30µ in. minimum
Coupling Nut Material & Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Spec.	100µ in. minimum	100µ in. minimum
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs 0.57 Nm	5 in-lbs 0.57 Nm

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:

FMCA2864 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA2864-12 = 12 inches long cable
 FMCA2864-100cm = 100 cm long cable

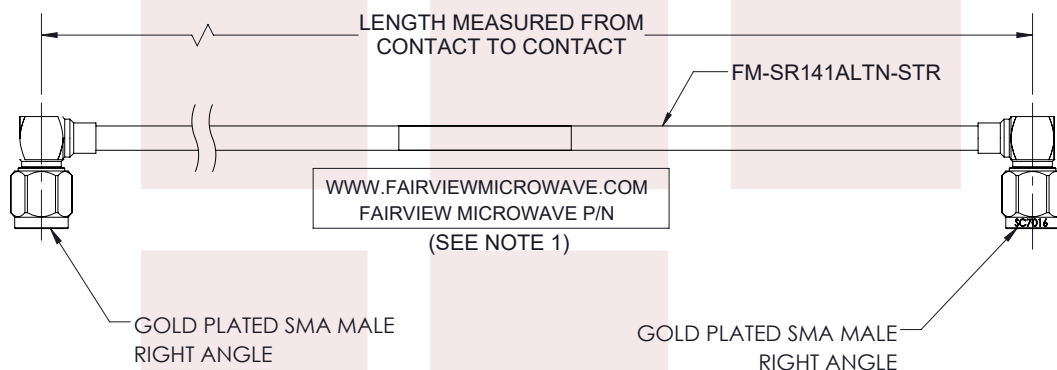
RA SMA Male to RA SMA Male Cable Tinned Aluminum RG402 Type .141 Coax in 50 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RA SMA Male to RA SMA Male Cable Tinned Aluminum RG402 Type .141 Coax in 50 CM FMCA2864-50CM](#)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-to-ra-sma-male-cable-tinned-aluminum-rg402-type-.141-coax-fmca2864-50cm-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	07/21/2022	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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TITLE

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RG402 Type .141 Coax in 50 CM

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE

N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY PSRINIVAS	ITEM NO. FMCA2864	REV A
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