

RA QMA Male to RA QMA Male Cable Tinned Aluminum RG402 Type .141 Coax in 12 Inch

The RA QMA male to RA QMA male cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2843-12, from Fairview Microwave is in-stock and ships same day. This Fairview QMA to QMA 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 FMCA2843-12 QMA male to QMA male cable assembly operates to 18 GHz. The right angle QMA 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	Error on F1=NULL	Error on F1=NULL		
VSWR			1.5:1	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.53	0.57	0.66	0.83	1.06	dB/ft
	1.74	1.87	2.17	2.72	3.48	dB/m

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]

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
 Outer Conductor Material and Plating Tinned Aluminum

Repeated Minimum Bend Radius 0.15 in [3.81 mm]



Configuration:

- QMA Male Right Angle
- QMA Male Right Angle
- FM-SR141ALTN-STR

Features:

- Max Frequency 18 GHz
- 100 Mating Cycles

Applications:

- General Purpose
- Laboratory Use

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Connectors

Description	Connector 1	Connector 2
Type	QMA Male	QMA Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	100	100
Contact Material & Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Contact Plating Spec.	0.15 µm minimum	0.15 µm minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Spring Bronze, Tri-Metal	Spring Bronze, Tri-Metal
Body Material & Plating	Brass, Gold	Brass, Gold
Body Plating Spec.	0.15 µm minimum	0.15 µm minimum

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2843 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA2843-12 = 12 inches long cable
 FMCA2843-100cm = 100 cm long cable

RA QMA Male to RA QMA Male Cable Tinned Aluminum 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 QMA Male to RA QMA Male Cable Tinned Aluminum RG402 Type .141 Coax in 12 Inch FMCA2843-12](#)

URL: <https://www.fairviewmicrowave.com/ra-qma-male-to-ra-qma-male-cable-tinned-aluminum-rg402-type-.141-coax-fmca2843-12-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	07/18/2022	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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Fairview Microwave

an INFINITE brand

TITLE

RA QMA Male to RA QMA Male Cable Tinned Aluminum
RG402 Type .141 Coax in 12 Inch

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

TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.X = ±.2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	
.XX = ±.02 [.51]		12 [305] < L ≤ 60 [1524] = +2 [51] / -0	
.XXX = ±.005 [.13]	ANGLES ± 1°	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.

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	PSRINIVAS	FMCA2843	A

THIRD-ANGLE PROJECTION

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SCALE N/A