

RA QMA Male to QMA Female Bulkhead Cable Tinned Aluminum RG402 Type .141 Coax in 50 CM

The RA QMA male to QMA female bulkhead cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2844-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview QMA to QMA cable assembly has a male to female 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 FMCA2844-50CM QMA male to QMA female cable assembly operates to 18 GHz. The right angle QMA interface on the FM-SR141ALTN-STR cable allows for easier connections in tight spaces. Our RF cable assembly with QMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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		18	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.52	0.58	0.73	1.1	1.39	dB/ft
	1.71	1.9	2.4	3.61	4.56	dB/m

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*	19.68 in [499.87 mm]
Weight	0.028 lbs [12.7 g]

Cable

Cable Type	FM-SR141ALTN-STR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver



Configuration:

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

Features:

- Max Frequency 18 GHz
- 69.5% Phase Velocity
- 100 Mating Cycles

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

Dielectric Type	PTFE
Number of Shields	1
Outer Conductor Material and Plating	Tinned Aluminum
Repeated Minimum Bend Radius	0.15 in [3.81 mm]

Connectors

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

FMCA2844 - xx uu

cm = Centimeters
<blank> = Inches
Length

Example: FMCA2844-12 = 12 inches long cable
FMCA2844-100cm = 100 cm long cable

RA QMA Male to QMA Female Bulkhead 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.

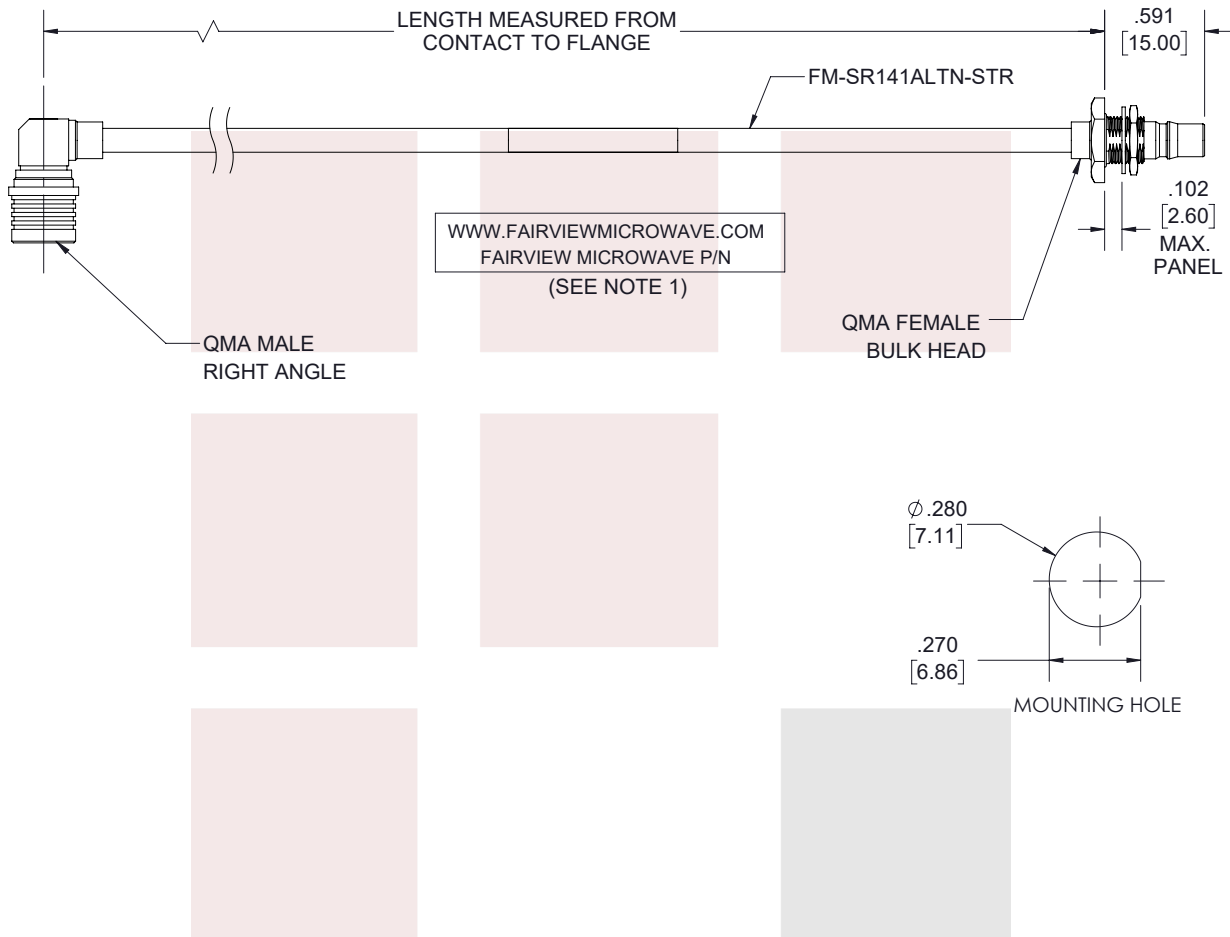
Click the following link to obtain additional part information: [RA QMA Male to QMA Female Bulkhead Cable Tinned Aluminum RG402 Type .141 Coax in 50 CM FMCA2844-50CM](#)

URL: <https://www.fairviewmicrowave.com/ra-qma-male-to-qma-female-bulkhead-cable-tinned-aluminum-rg402-type-.141-coax-fmca2844-50cm-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	07/18/2022	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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TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		THIRD-ANGLE PROJECTION	
TOLERANCES:		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.	
CABLE LENGTH (L) TOLERANCES:		SHEET 1 OF 1	
.X = ± 2 [.08] FRACTIONS	L ≤ 12 [305] = +1 [25] / -0	SCALE N/A	
.XX = ± .02 [.51] ± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0	REV A	
.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.
A	3FKR5	PSRINIVAS	FMCA2844

T-Rev.D