Fairview Microwave
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FMCA2869-36 DATA SHEET

Slide-On BMA Plug Bulkhead to RA Slide-On BMA Jack 2 Hole Flange Cable Tinned Aluminum RG402 Type .141 Coax in 36 Inch



The BMA plug slide-on bulkhead to RA BMA jack slide-on 2 hole flange 36 inch cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2869-36, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to BMA cable assembly has a plug to jack 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 FMCA2869-36 BMA plug to BMA jack cable assembly operates to 12.4 GHz. The right angle BMA interface on the FM-SR141ALTN-STR cable allows for easier connections in tight spaces. Our RF cable assembly with BMA bulkhead and BMA 2 hole flange 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		12.4	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
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.)	0.69	0.86	1.13	1.86		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*	36 in [914.4 mm]
Weight	0.082 lbs [37.19 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

Configuration:

- Slide-OnBMA Plug Bulkhead
- Slide-OnBMA Jack Right Angle 2 Hole Flange
- FM-SR141ALTN-STR

Features:

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

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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	BMA Plug	BMA Jack
Mount Method	Bulkhead	2 Hole Flange
Impedance	50 Ohms	50 Ohms
Connection Method	Slide-On	Slide-On
Mating Cycles	500	1,000
Contact Material & Plating	Bronze, Gold	Beryllium Copper, Gold
Contact Plating Spec.	51.18µ in. minimum	
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Tri-Metal	Beryllium Copper, Gold
Outer Cond Plating Spec.	78.74µ in. minimum	
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	78.74µ in. minimum	
Hex Size	8 mm	

Environmental Specifications

Temperature

Operating Range	-40 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FMCA2869 - xx uu**

- xx = Length
- uu = cm = Centimeters, <blank> = Inches

Example: FMCA2869-12 = 12 inches long cable
FMCA2869-100cm = 100 cm long cable

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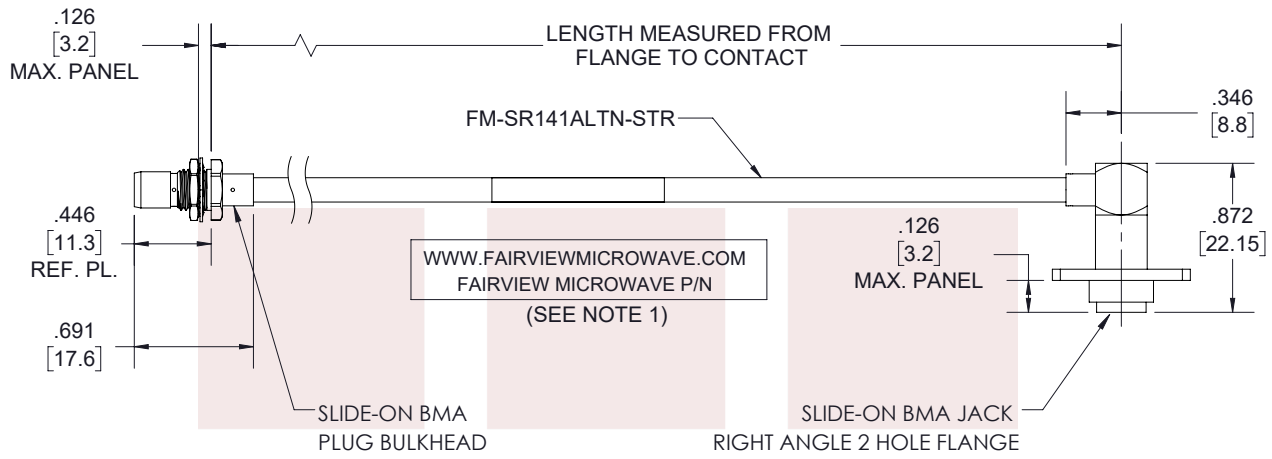
Slide-On BMA Plug Bulkhead to RA Slide-On BMA Jack 2 Hole Flange Cable Tinned Aluminum RG402 Type .141 Coax in 36 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

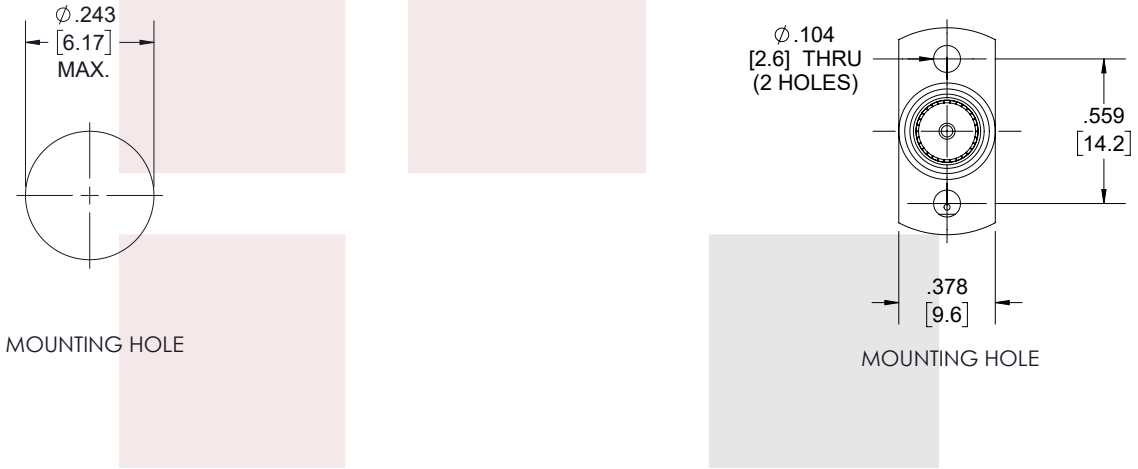
Click the following link to obtain additional part information: Slide-On BMA Plug Bulkhead to RA Slide-On BMA Jack 2 Hole Flange Cable Tinned Aluminum RG402 Type .141 Coax in 36 Inch FMCA2869-36

URL: https://www.fairviewmicrowave.com/slide-on-bma-plug-bulkhead-to-ra-slide-on-bma-jack-2-hole-flange-cable-tinned-aluminum-rg402-type-.141-coax-fmca2869-36-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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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	PSRINIVAS	FMCA2869	A

T-Rev.D

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