

## Slide-On BMA Jack 2 Hole Flange to RA Slide-On BMA Jack 2 Hole Flange Cable Tinned Aluminum RG402 Type .141 Coax in 12 Inch

The BMA jack slide-on 2 hole flange to RA BMA jack slide-on 2 hole flange 12 inch cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2870-12, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to BMA cable assembly has a jack 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 FMCA2870-12 BMA jack 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 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.) | 0.43 | 0.49 | 0.58 | 0.82 |    | 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* | 12 in [304.8 mm]    |
| Weight  | 0.049 lbs [22.23 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                         |



### Configuration:

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

### Features:

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity
- 1000 Mating Cycles

### Applications:

- General Purpose
- Laboratory Use

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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 Jack               | BMA Jack               |
| Mount Method                  | 2 Hole Flange          | 2 Hole Flange          |
| Impedance                     | 50 Ohms                | 50 Ohms                |
| Connection Method             | Slide-On               | Slide-On               |
| Mating Cycles                 | 1,000                  | 1,000                  |
| Contact Material & Plating    | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Dielectric Type               | PTFE                   | PTFE                   |
| Outer Cond Material & Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Material & Plating       | Brass, Tri-Metal       | Brass, Tri-Metal       |

### 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:

**FMCA2870 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMCA2870-12 = 12 inches long cable  
 FMCA2870-100cm = 100 cm long cable

Slide-On BMA Jack 2 Hole Flange to RA Slide-On BMA Jack 2 Hole Flange 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.

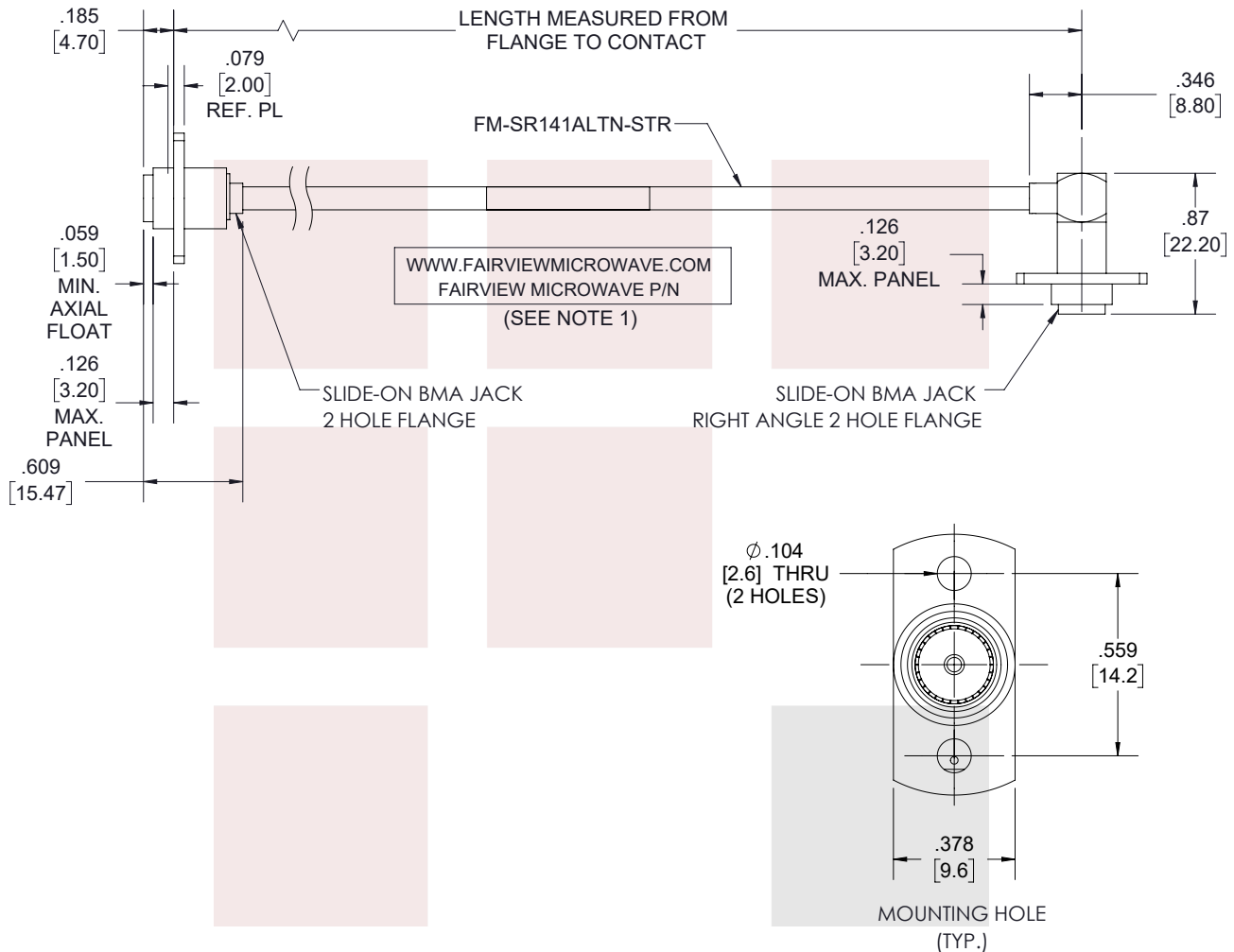
Click the following link to obtain additional part information: [Slide-On BMA Jack 2 Hole Flange to RA Slide-On BMA Jack 2 Hole Flange Cable Tinned Aluminum RG402 Type .141 Coax in 12 Inch FMCA2870-12](#)

URL: <https://www.fairviewmicrowave.com/slide-on-bma-jack-2-hole-flange-to-ra-slide-on-bma-jack-2-hole-flange-cable-tinned-aluminum-rg402-type-.141-coax-fmca2870-12-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 | 07/21/2022 | AGANWANI |



**NOTES:**

- 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

Slide-On BMA Jack 2 Hole Flange to RA Slide-On BMA  
Jack 2 Hole Flange Cable Tinned Aluminum RG402  
Type .141 Coax in 12 Inch

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

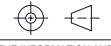
**TOLERANCES:**

.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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

| SIZE | CAGE CODE | DRAWN BY  | ITEM NO. | REV |
|------|-----------|-----------|----------|-----|
| A    | 3FKR5     | PSRINIVAS | FMCA2870 | A   |

T-Rev.D