

## Snap-On BMA Jack to Snap-On BMA Jack Cable RG405 Type .086 Coax

The BMA jack snap-on to BMA jack snap-on cable using RG405 type .086 coax, part number FMCA2965, 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-SR086CU-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 FMCA2965 BMA jack to BMA jack cable assembly operates to 40 GHz.

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   |              | 40    | GHz          |
| VSWR                                 |      |              | 1.5:1 |              |
| Velocity of Propagation              |      | 69.5         |       | %            |
| RF Shielding                         | -110 |              |       | dB           |
| Capacitance                          |      | 29.4 [96.46] |       | pF/ft [pF/m] |
| Dielectric Withstanding Voltage (AC) |      |              | 1,000 | Vrms         |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5 | Units |
|-----------------------|------|------|------|------|----|-------|
| Frequency             | 2.5  | 5    | 10   | 20   |    | GHz   |
| Insertion Loss (Typ.) | 0.31 | 0.47 | 0.8  | 1.2  |    | dB/ft |
|                       | 1.02 | 1.54 | 2.62 | 3.94 |    | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

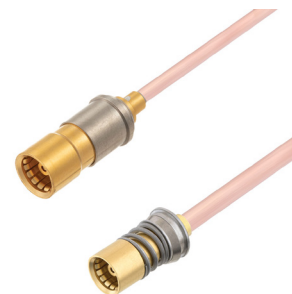
#### Cable Assembly

Weight 0.028 lbs [12.7 g]

#### Cable

Cable Type FM-SR086CU-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 Copper

Repeated Minimum Bend Radius 0.05 in [1.27 mm]



### Configuration:

- Snap-OnBMA Jack
- Snap-OnBMA Jack
- FM-SR086CU-STR

### Features:

- Max Frequency 40 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity
- 1000 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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Connectors

| Description                   | Connector 1            | Connector 2            |
|-------------------------------|------------------------|------------------------|
| Type                          | BMA Jack               | BMA Jack               |
| Impedance                     | 50 Ohms                | 50 Ohms                |
| Connection Method             | Snap-On                | Snap-On                |
| Mating Cycles                 | 1,000                  | 1,000                  |
| Contact Material & Plating    | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec.         | 51.18µ in. minimum     | 51.18µ in. minimum     |
| Dielectric Type               | PTFE                   | PTFE                   |
| Outer Cond Material & Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Material & Plating       | Stainless Steel, Gold  | Stainless Steel, Gold  |
| Body Plating Spec.            | 19.68µ in. minimum     | 19.68µ in. minimum     |

### Mechanical Specification Notes:

Maximum length using the straight semi rigid coax is 5ft. For lengths greater than 5ft, please contact us

## Environmental Specifications

### Temperature

Operating Range -40 to +105 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMCA2965 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA2965-12 = 12 inches long cable  
 FMCA2965-100cm = 100 cm long cable

Snap-On BMA Jack to Snap-On BMA Jack Cable RG405 Type .086 Coax 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.

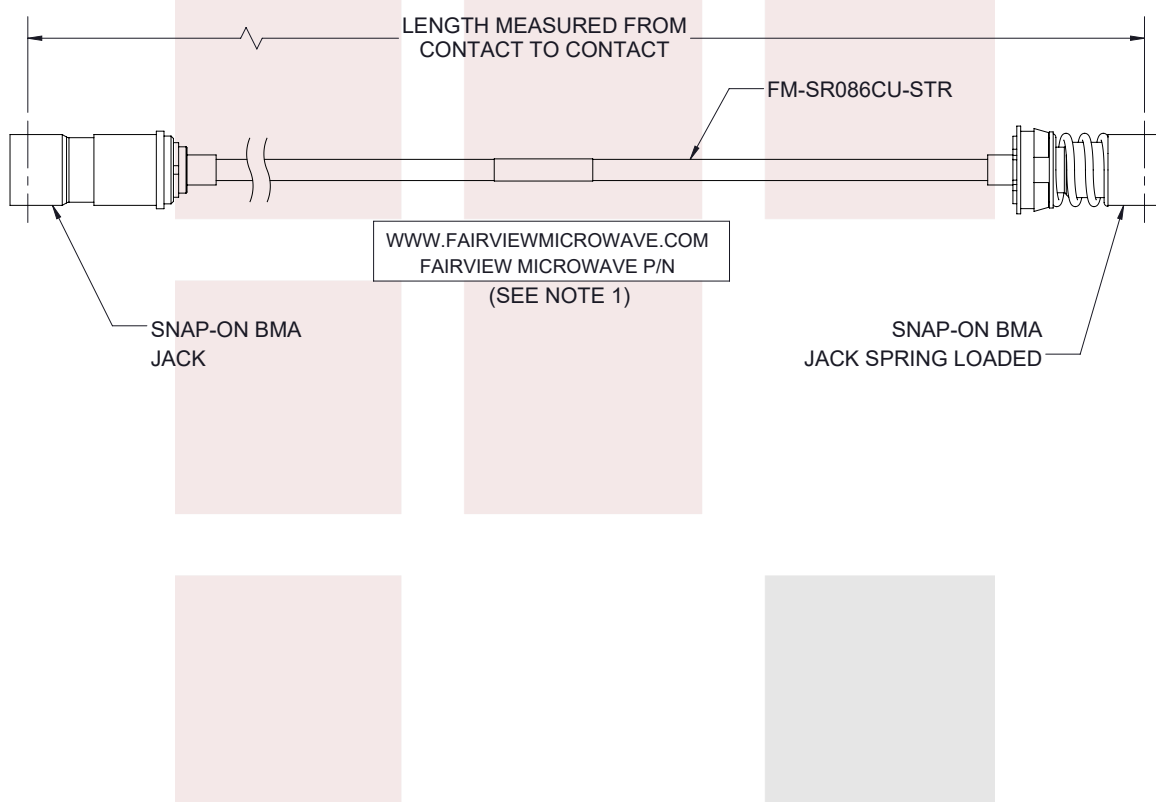
Click the following link to obtain additional part information: [Snap-On BMA Jack to Snap-On BMA Jack Cable RG405 Type .086 Coax FMCA2965](#)

URL: <https://www.fairviewmicrowave.com/snap-on-bma-jack-to-snap-on-bma-jack-cable-rg405-type-.086-coax-fmca2965-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 | 07/25/2022 | 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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|--|--|---|--|--|--|
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| <p>TITLE</p>   |  | <p>TOLERANCES:</p>  |  | <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> |  |
| <p>Snap-On BMA Jack to Snap-On BMA Jack Cable RG405<br/>Type .086 Coax</p> |  | <p>CABLE LENGTH (L) TOLERANCES:</p>   |  | <p>SHEET 1 OF 1</p>  |  |
| <p>SIZE A</p>  |  | <p>CAGE CODE 3FKR5</p>  |  | <p>SCALE N/A</p>   |  |
| <p>DRAWN BY PSRINIVAS</p>  |  | <p>ITEM NO. FMCA2965</p>  |  | <p>REV A</p>   |  |

T-Rev.D