

## Snap-On BMA Jack to Snap-On BMA Jack Cable Tinned Aluminum RG405 Type .086 Coax in 100 CM

The BMA jack snap-on to BMA jack snap-on 100 cm cable using Tinned Aluminum RG405 type .086 coax, part number FMCA3020-100CM, 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-SR086ALTN-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 FMCA3020-100CM BMA jack to BMA jack cable assembly operates to 22 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  |     | 22    | GHz   |
| VSWR                                 |     |     | 1.5:1 |       |
| Dielectric Withstanding Voltage (AC) |     |     | 1,000 | Vrms  |

### Performance by Frequency

| Description           | F1   | F2   | F3  | F4   | F5   | Units |
|-----------------------|------|------|-----|------|------|-------|
| Frequency             | 1    | 2    | 4.5 | 9    | 22   | GHz   |
| Insertion Loss (Typ.) | 0.96 | 1.17 | 1.7 | 2.65 | 4.83 | dB    |

#### 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 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

|         |                    |
|---------|--------------------|
| Length* | 39.37 in [100 cm]  |
| Weight  | 0.041 lbs [18.6 g] |

#### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | FM-SR086ALTN-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           |

|                              |                   |
|------------------------------|-------------------|
| One Time Minimum Bend Radius | 0.05 in [1.27 mm] |
|------------------------------|-------------------|



### Configuration:

- Snap-OnBMA Jack
- Snap-OnBMA Jack
- FM-SR086ALTN-STR

### Features:

- Max Frequency 22 GHz
- 1000 Mating Cycles

### Applications:

- General Purpose
- Laboratory Use

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**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     |

**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: **FMCA3020 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMCA3020-12 = 12 inches long cable  
FMCA3020-100cm = 100 cm long cable

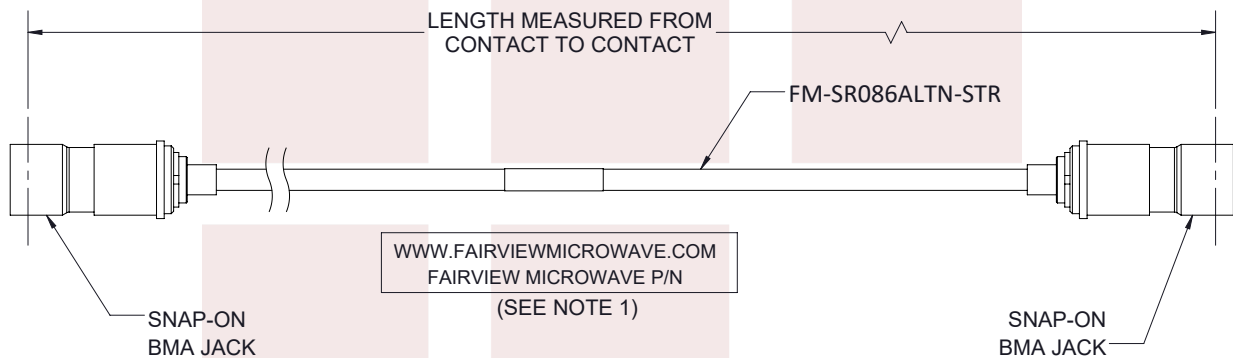
Snap-On BMA Jack to Snap-On BMA Jack Cable Tinned Aluminum RG405 Type .086 Coax in 100 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Snap-On BMA Jack to Snap-On BMA Jack Cable Tinned Aluminum RG405 Type .086 Coax in 100 CM FMCA3020-100CM](#)

URL: <https://www.fairviewmicrowave.com/snap-on-bma-jack-to-snap-on-bma-jack-cable-tinned-aluminum-rg405-type-.086-coax-in-100-cm-fmca3020-100cm-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 | 08/05/22 | 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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|   | TOLERANCES:   |                     | CABLE LENGTH (L) TOLERANCES:  |   |
| TITLE<br><br>Snap-On BMA Jack to Snap-On BMA Jack Cable Tinned<br>Aluminum RG405 Type .086 Coax in 100 CM | .X = ±.2 [ .51]   | FRACTIONS<br>± 1/32 | L ≤ 12 [305] = +1 [25] / -0<br>12 [305] < L ≤ 60 [1524] = +2 [51] / -0<br>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0<br>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0<br>300 [7620] < L = +5%L / -0 | THE INFORMATION AND<br>DESIGN IN THIS DOCUMENT<br>IS THE PROPERTY OF<br>FAIRVIEW MICROWAVE CORPORATION.<br>ALL RIGHTS RESERVED. |
|   | .XX = ±.02 [ .51]   | ANGLES ± 1°         | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.  | SHEET 1 OF 1<br><br>SCALE N/A   |
| SIZE A  | CAGE CODE 3FKR5   | DRAWN BY VTHANGARAJ | ITEM NO. FMCA3020   | REV A   |

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