Fairview Microwave
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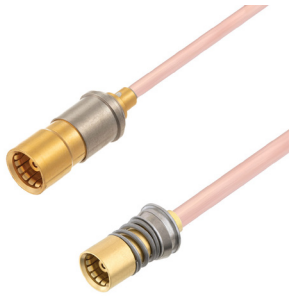
# FMCA2965-200CM DATA SHEET

## Snap-On BMA Jack to Snap-On BMA Jack Cable RG405 Type .086 Coax in 200 CM



The BMA jack snap-on to BMA jack snap-on 200 cm cable using RG405 type .086 coax, part number FMCA2965-200CM, 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 FMCA2965-200CM 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.

### 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

### 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.) | 2.24 | 3.29 | 5.45 | 8.08 | | 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* | 78.74 in [200 cm] |
| Weight | 0.101 lbs [45.81 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 |

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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Repeated Minimum Bend Radius 0.05 in [1.27 mm]

**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: **FMCA2965 - xx uu**

cm = Centimeters
<blank> = Inches

Length

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



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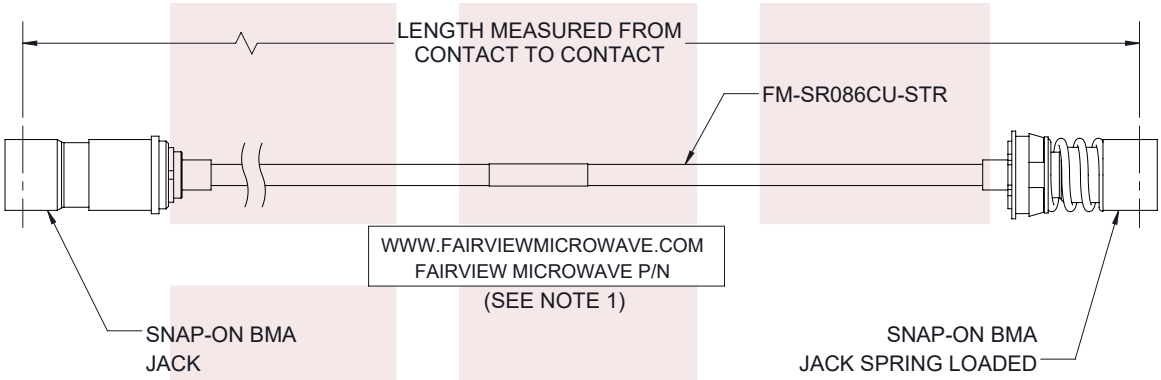
Snap-On BMA Jack to Snap-On BMA Jack Cable RG405 Type .086 Coax in 200 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Snap-On BMA Jack to Snap-On BMA Jack Cable RG405 Type .086 Coax in 200 CM FMCA2965-200CM

URL: https://www.fairviewmicrowave.com/snap-on-bma-jack-to-snap-on-bma-jack-cable-rg405-type-.086-coax-fmca2965-200cm-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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TITLE

Snap-On BMA Jack to Snap-On BMA Jack Cable RG405 Type .086 Coax in 200 CM

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 | FMCA2965 | A |

T-Rev.D

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689