

## Slide-On BMA Jack 2 Hole Flange to RA SMA Male Cable FM-SR086TBJ Coax in 6 Inch

The BMA jack slide-on 2 hole flange to RA SMA male 6 inch cable using FM-SR086TBJ coax, part number FMCA1571-6, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to SMA cable assembly has a jack to male gender configuration with 50 ohm formable FM-SR086TBJ coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA1571-6 BMA jack to SMA male cable assembly operates to 10 GHz. The right angle SMA interface on the FM-SR086TBJ 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  |               | 10    | GHz                              |
| VSWR                          |     |               | 1.5:1 |                                  |
| Return Loss                   |     |               | 15.56 | dB                               |
| Velocity of Propagation       |     | 69.5          |       | %                                |
| RF Shielding                  | 100 |               |       | dB                               |
| Group Delay                   |     | 1.43 [4.69]   |       | ns/ft [ns/m]                     |
| Capacitance                   |     | 29 [95.14]    |       | pF/ft [pF/m]                     |
| DC Resistance Inner Conductor |     | 65.7 [215.55] |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 10.2 [33.46]  |       | $\Omega$ /1000ft [ $\Omega$ /Km] |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.5  | 1    | 2.5  | 5    | 10   | GHz   |
| Insertion Loss (Max.) | 0.28 | 0.31 | 0.39 | 0.48 | 0.61 | dB    |

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 6 in [152.4 mm]    |
| Diameter | 0.75 in [19.05 mm] |

#### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | FM-SR086TBJ               |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |



### Configuration:

- Slide-On BMA Jack 2 Hole Flange
- SMA Male Right Angle
- FM-SR086TBJ

### Features:

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use
- Rack and Panel
- BMA Cable RF Backplanes
- Phased Array Interconnects
- High Speed Switching Networks
- Blind Mate BMA Test

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|                                      |                               |
|--------------------------------------|-------------------------------|
| Number of Shields                    | 1                             |
| Outer Conductor Material and Plating | Tinned Copper Composite Braid |
| Jacket Material                      | FEP, Black                    |
| Jacket Diameter                      | 0.105 in [2.67 mm]            |
| One Time Minimum Bend Radius         | 0.5 in [12.7 mm]              |
| Repeated Minimum Bend Radius         | 0.787 in [19.99 mm]           |

#### Connectors

| Description                     | Connector 1            | Connector 2                |
|---------------------------------|------------------------|----------------------------|
| Type                            | BMA Jack               | SMA Male                   |
| Mount Method                    | 2 Hole Flange          |                            |
| Impedance                       | 50 Ohms                | 50 Ohms                    |
| Connection Method               | Slide-On               |                            |
| Contact Material & Plating      | Beryllium Copper, Gold | Brass, Gold over Nickel    |
| Contact Plating Spec.           | 51.18µ in. minimum     | 0.2 µin minimum            |
| Dielectric Type                 | PTFE                   | PTFE                       |
| Outer Cond Material & Plating   | Beryllium Copper, Gold |                            |
| Body Material & Plating         | Stainless Steel, Gold  | Brass, Gold over Nickel    |
| Body Plating Spec.              | 19.68µ in. minimum     | 0.1 µin minimum            |
| Coupling Nut Material & Plating |                        | Passivated Stainless Steel |
| Hex Size                        |                        | 5/16 inch                  |
| Torque                          |                        | 8 in-lbs [0.9 Nm]          |

Mechanical Specification Notes:

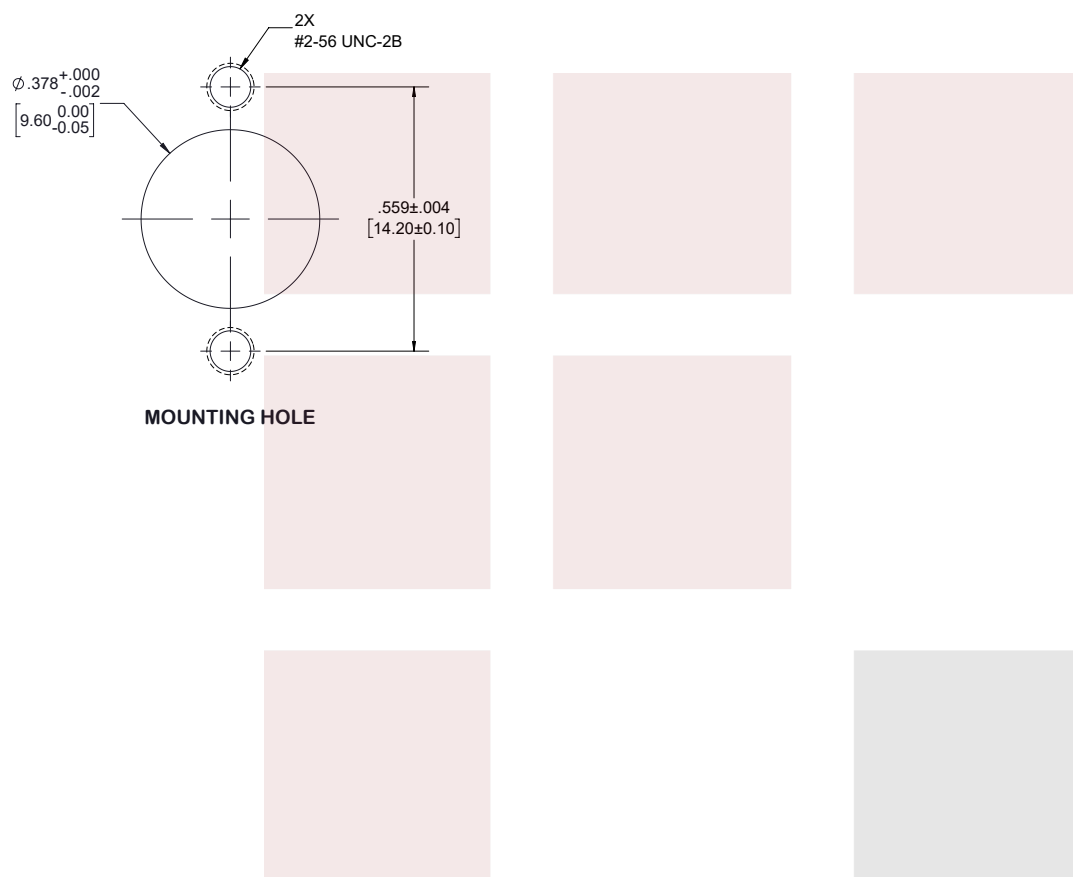
\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

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

#### Plotted and Other Data

Notes:

## Typical Performance Data



## How to Order

Part Number Configuration:

**FMCA1571 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

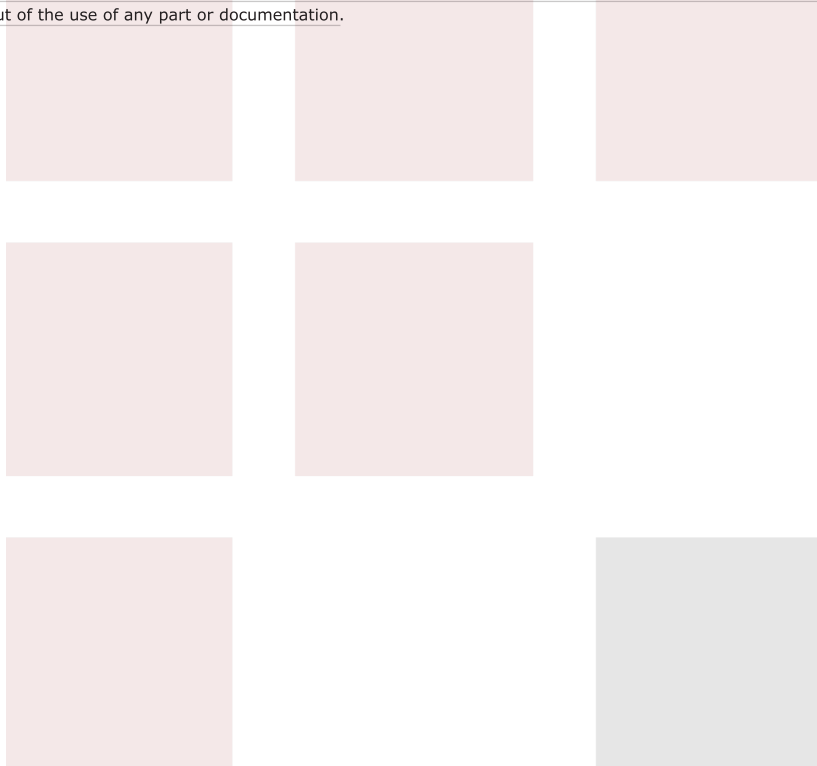
Example: FMCA1571-12 = 12 inches long cable  
FMCA1571-100cm = 100 cm long cable

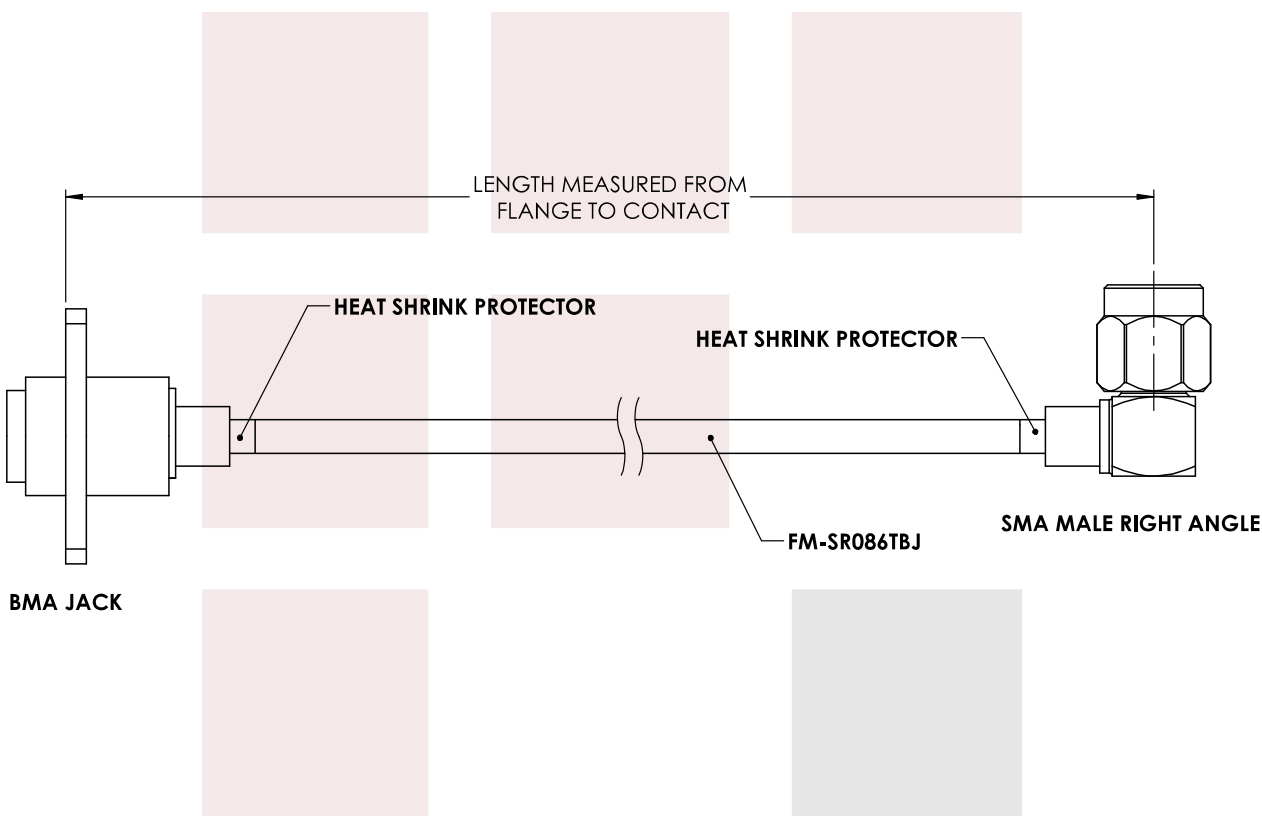
Slide-On BMA Jack 2 Hole Flange to RA SMA Male Cable FM-SR086TBJ Coax in 6 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Slide-On BMA Jack 2 Hole Flange to RA SMA Male Cable FM-SR086TBJ Coax in 6 Inch FMCA1571-6](#)

URL: <https://www.fairviewmicrowave.com/bma-jack-ra-sma-male-cable-rg405-type-.086-coax-fmca1571-6-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.





**STANDARD TOLERANCES**

.X  $\pm 0.2$   
.XX  $\pm 0.01$   
.XXX  $\pm 0.005$

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

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**NOTES:**

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

**TITLE**

Slide-On BMA Jack 2 Hole Flange to RA SMA Male  
Cable FM-SR086TBJ Coax in 6 Inch

**DWG NO**

FMCA1571

**CAGE CODE**

3FKR5

CAD FILE 12/13/17

SHEET

SCALE N/A

SIZE A

CN2245