

**Slide-On BMA Jack 2 Hole Flange to SMP Female Cable FM-SR086TBJ Coax in 36 Inch**

The BMA jack slide-on 2 hole flange to SMP female 36 inch cable using FM-SR086TBJ coax, part number FMCA1580-36, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to SMP cable assembly has a jack to female 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 FMCA1580-36 BMA jack to SMP female cable assembly operates to 18 GHz. 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  |               | 18    | 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             | 1    | 2    | 4.5  | 9    | 18   | GHz   |
| Insertion Loss (Max.) | 0.86 | 1.19 | 1.76 | 2.51 | 3.59 | dB    |

**Mechanical Specifications**

**Cable Assembly**

Length\* 36 in [914.4 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  
 Number of Shields 1



**Configuration:**

- Slide-On BMA Jack 2 Hole Flange
- SMP Female
- FM-SR086TBJ

**Features:**

- Max Frequency 18 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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|                                      |                               |
|--------------------------------------|-------------------------------|
| 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               | SMP Female             |
| Mount Method                  | 2 Hole Flange          |                        |
| Specification                 |                        | MIL-STD-348            |
| Impedance                     | 50 Ohms                | 50 Ohms                |
| Connection Method             | Slide-On               |                        |
| Contact Material & Plating    | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec.         | 51.18µ in. minimum     | MIL-G-45204            |
| Dielectric Type               | PTFE                   | PTFE                   |
| Outer Cond Material & Plating | Beryllium Copper, Gold |                        |
| Body Material & Plating       | Stainless Steel, Gold  | Beryllium Copper, Gold |
| Body Plating Spec.            | 19.68µ in. minimum     | MIL-G-45204            |

Mechanical Specification Notes:

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

**Environmental Specifications**

**Temperature**

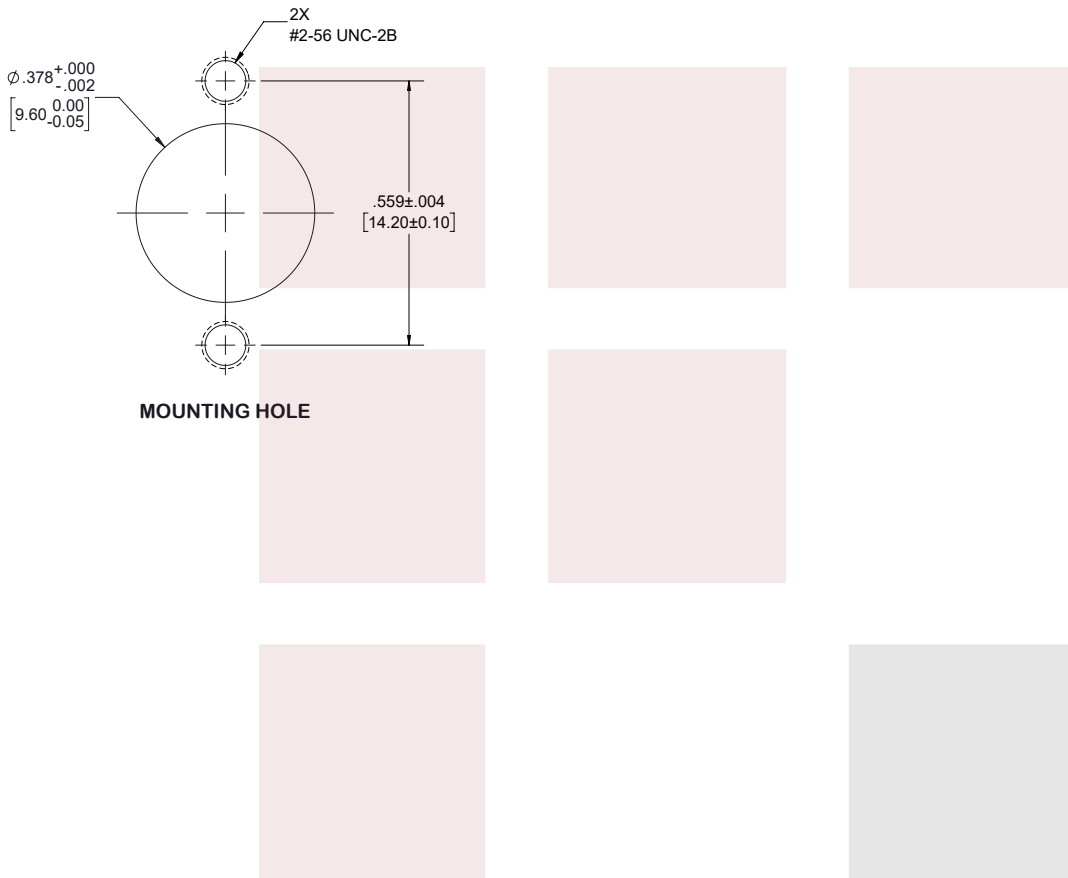
Operating Range -55 to +125 deg C

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

**Plotted and Other Data**

Notes:

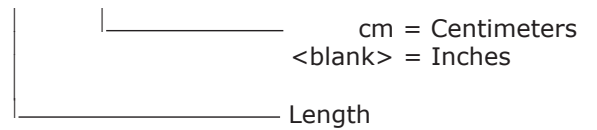
**Typical Performance Data**



**How to Order**

Part Number Configuration:

**FMCA1580 - xx uu**



Example: FMCA1580-12 = 12 inches long cable  
 FMCA1580-100cm = 100 cm long cable

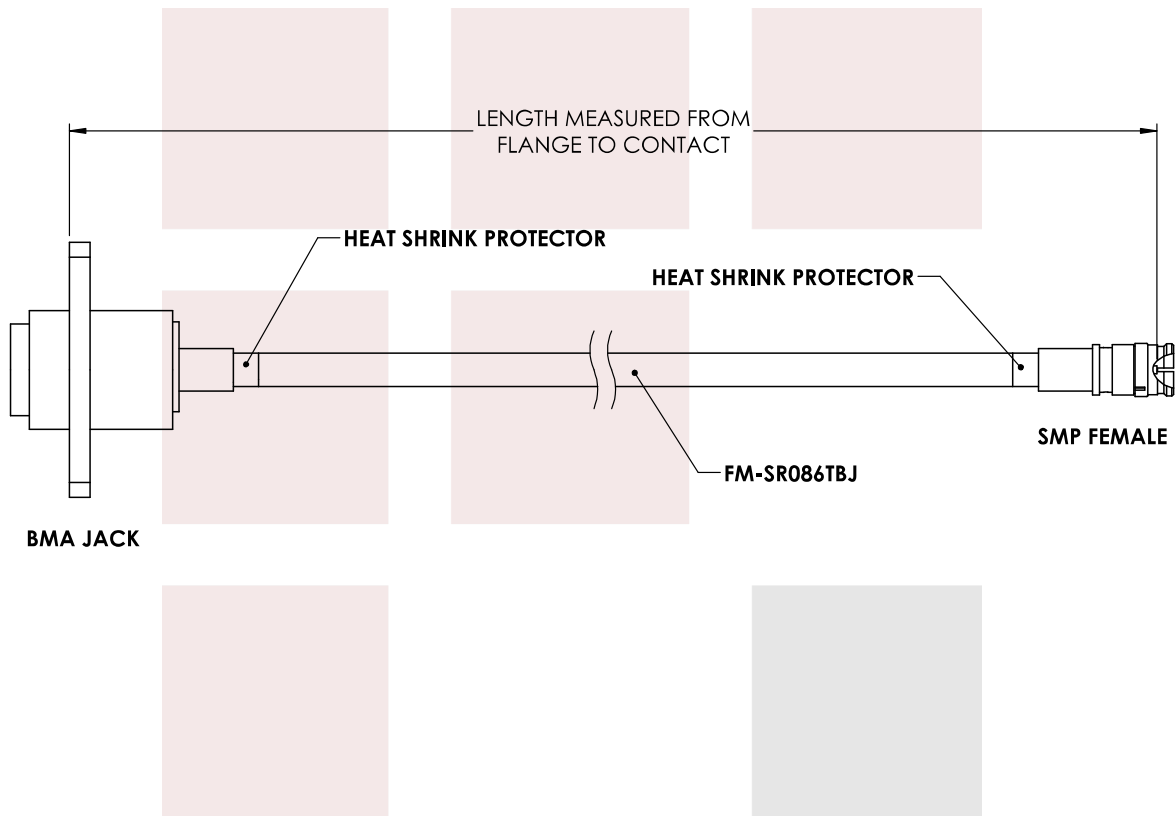
Slide-On BMA Jack 2 Hole Flange to SMP Female Cable FM-SR086TBJ Coax in 36 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Slide-On BMA Jack 2 Hole Flange to SMP Female Cable FM-SR086TBJ Coax in 36 Inch FMCA1580-36](#)

URL: <https://www.fairviewmicrowave.com/bma-jack-smp-female-cable-rg405-type-.086-coax-fmca1580-36-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 ±0.2  
 .XX ±0.01  
 .XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

**FAIRVIEW MICROWAVE INC.**

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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  
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 FM-SR086TBJ Coax in 36 Inch

|                    |                    |           |               |
|--------------------|--------------------|-----------|---------------|
| DWG NO<br>FMCA1580 | CAGE CODE<br>3FKR5 |           |               |
| CAD FILE 12/15/17  | SHEET              | SCALE N/A | SIZE A CN2245 |