

**Slide-On BMA Plug Bulkhead to RA SMP Female Cable  
 RG405 Type .086 Coax**

The BMA plug slide-on bulkhead to RA SMP female cable using RG405 type .086 coax, part number FMCA1609, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to SMP cable assembly has a plug to female gender configuration with 50 ohm semi-rigid FM-SR086CU 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 FMCA1609 BMA plug to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the FM-SR086CU cable allows for easier connections in tight spaces. Our RF cable assembly with BMA bulkhead 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

**Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	22	GHz
Insertion Loss (Typ.)	0.22	0.28	0.46	0.74	1.25	dB/ft
	0.72	0.92	1.51	2.43	4.1	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**

Diameter 0.315 in [8 mm]

**Cable**

Cable Type FM-SR086CU  
 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



**Configuration:**

- Slide-On BMA Plug Bulkhead
- SMP Female Right Angle
- FM-SR086CU

**Features:**

- Max Frequency 18 GHz

**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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Repeated Minimum Bend Radius 0.05 in [1.27 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	BMA Plug	SMP Female
Mount Method	Bulkhead	
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Connection Method	Slide-On	
Contact Material & Plating	Bronze, Gold	Beryllium Copper, Gold
Contact Plating Spec.	51.18µ in. minimum	MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Tri-Metal	
Outer Cond Plating Spec.	78.74µ in. minimum	
Body Material & Plating	Brass, Tri-Metal	Beryllium Copper, Gold
Body Plating Spec.	78.74µ in. minimum	MIL-G-45204
Hex Size	8 mm	

Mechanical Specification Notes:

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

**Environmental Specifications**

**Temperature**

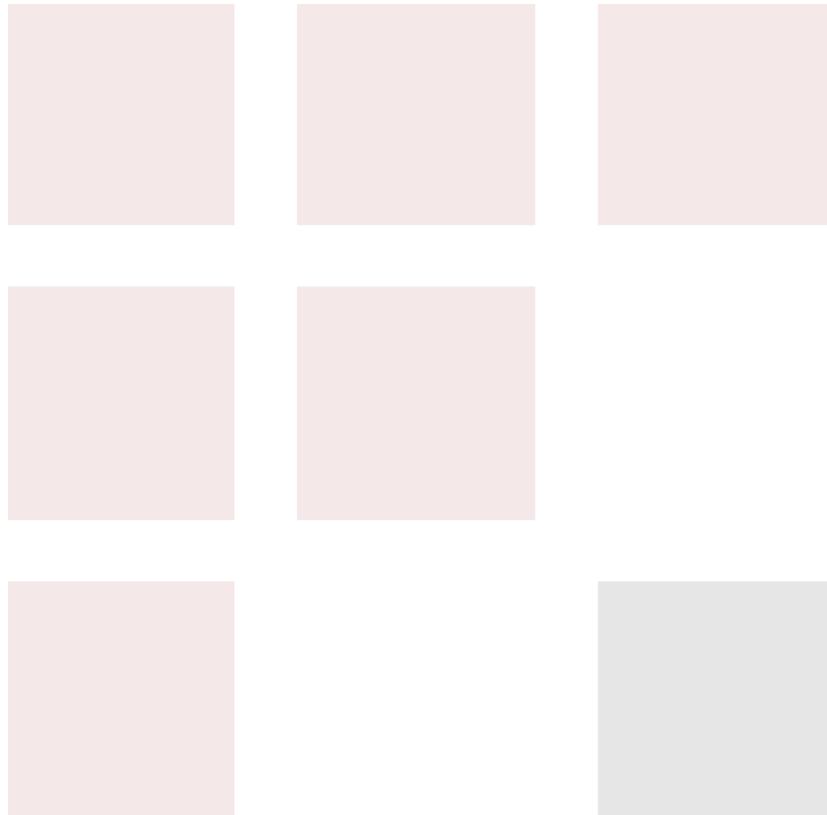
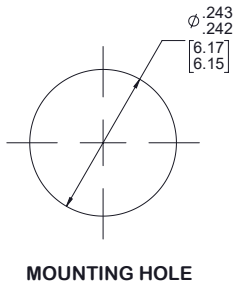
Operating Range -55 to +125 deg C

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

**Plotted and Other Data**

Notes:

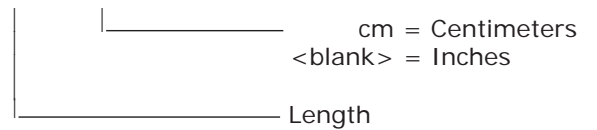
**Typical Performance Data**



**How to Order**

Part Number Configuration:

**FMCA1609 - xx uu**



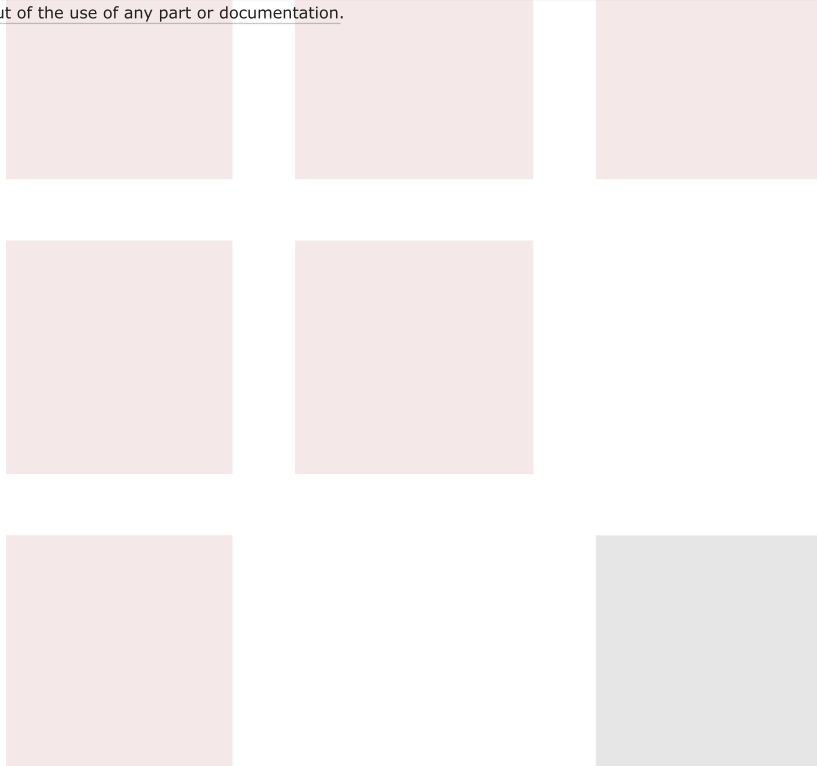
Example: FMCA1609-12 = 12 inches long cable  
 FMCA1609-100cm = 100 cm long cable

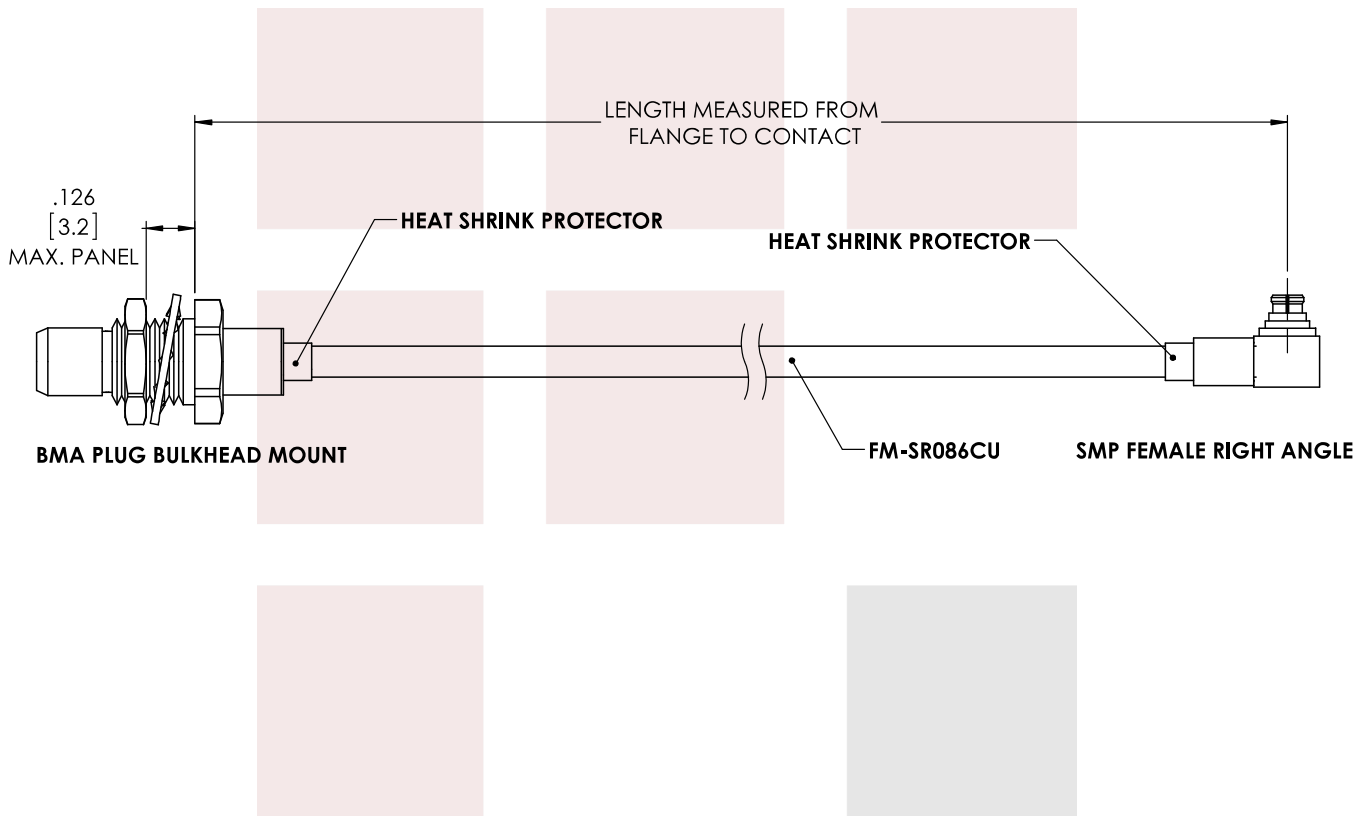
Slide-On BMA Plug Bulkhead to RA SMP Female Cable RG405 Type .086 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Slide-On BMA Plug Bulkhead to RA SMP Female Cable RG405 Type .086 Coax FMCA1609](#)

URL: <https://www.fairviewmicrowave.com/bma-plug-ra-smp-female-cable-rg405-type-.086-coax-fmca1609-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 Slide-On BMA Plug Bulkhead to RA SMP Female Cable RG405 Type .086 Coax	DWG NO FMCA1609	CAGE CODE 3FKR5		
	CAD FILE 12/20/17	SHEET	SCALE N/A	SIZE A CN2245