

**Snap-On MMBX Plug to SMA Female Bulkhead Cable  
RG316 Coax in 6 Inch**

Fairview Microwave's MMBX cable assemblies are part of our full line of RF interconnects available for same-day shipping. These MMBX cable assemblies are designed for test applications or connection of your MMBX system components. With a high frequency range up to 3 GHz, this family of MMBX cables can also be used to connect your panels to PCB's with between series options like MMBX-to-SMA, MMBX-to-N or MMBX-to-TNC assemblies. There are hundreds of possible cable assembly configurations to choose from, all available same day.

This MMBX cable assembly datasheet PDF contains specifications, CAD drawing and dimensions that are shown below. Fairview Microwave not only has many MMBX cable assembly options, but also a wide selection of RF, microwave and millimeter wave cable assemblies which allows RF designers to customize their configurations to whatever is required. Whether the need is to provide an I/O for a board design or simply create a custom cable assembly configuration, Fairview Microwave has the right cable assemblies for the job. Fairview can also expertly build your custom RF cable assemblies for you and ship same day.

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Return Loss		-15.56		dB
Velocity of Propagation		69		%
Jacket Spark			2,000	Vrms

**Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.26	0.29	0.32	0.39	0.49	dB

**Mechanical Specifications**

**Cable Assembly**

Length\* 6 in [152.4 mm]  
Diameter 0.312 in [7.92 mm]

**Cable**

Cable Type RG316  
Impedance 50 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Shield Layer 1 Silver Plated Copper Braid  
Jacket Material FEP, Tan  
Jacket Diameter 0.098 in [2.49 mm]



**Configuration:**

- Snap-On MMBX Plug
- SMA Female Bulkhead
- RG316

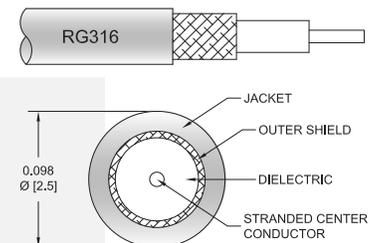
**Features:**

- Max. Operating Frequency of 3 GHz
- Snap-On mating

**Applications:**

- General Purpose MMBX Test
- PCB Testing
- Low Profile MMBX Cable Jumpers
- PCB-to-Panel Connection

**Cable Diagram:**



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**Connectors**

Description	Connector 1	Connector 2
Type	MMBX Plug	SMA Female
Mount Method		Bulkhead
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Connection Method	Snap-On	
Mating Cycles	100	
Contact Material & Plating	Beryllium Copper, Gold	Gold
Contact Plating Spec.		MIL-G-45204
Dielectric Type	PTFE	
Outer Cond Material & Plating	Brass, Gold	
Body Material & Plating	Brass, Gold	Brass, Nickel
Body Plating Spec.		QQ-N-290

**Mechanical Specification Notes:**

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

**Environmental Specifications**

**Temperature**

Operating Range -55 to +155 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA1417 - xx uu**



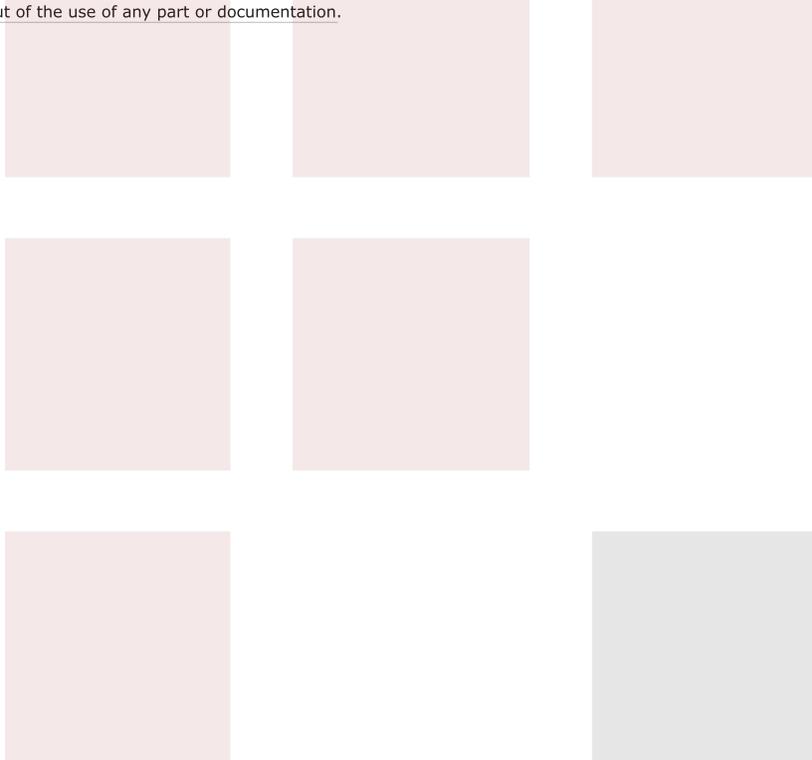
Example: FMCA1417-12 = 12 inches long cable  
 FMCA1417-100cm = 100 cm long cable

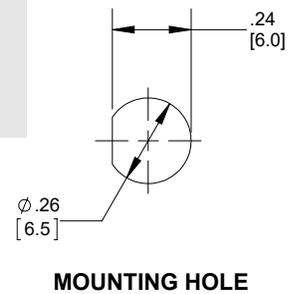
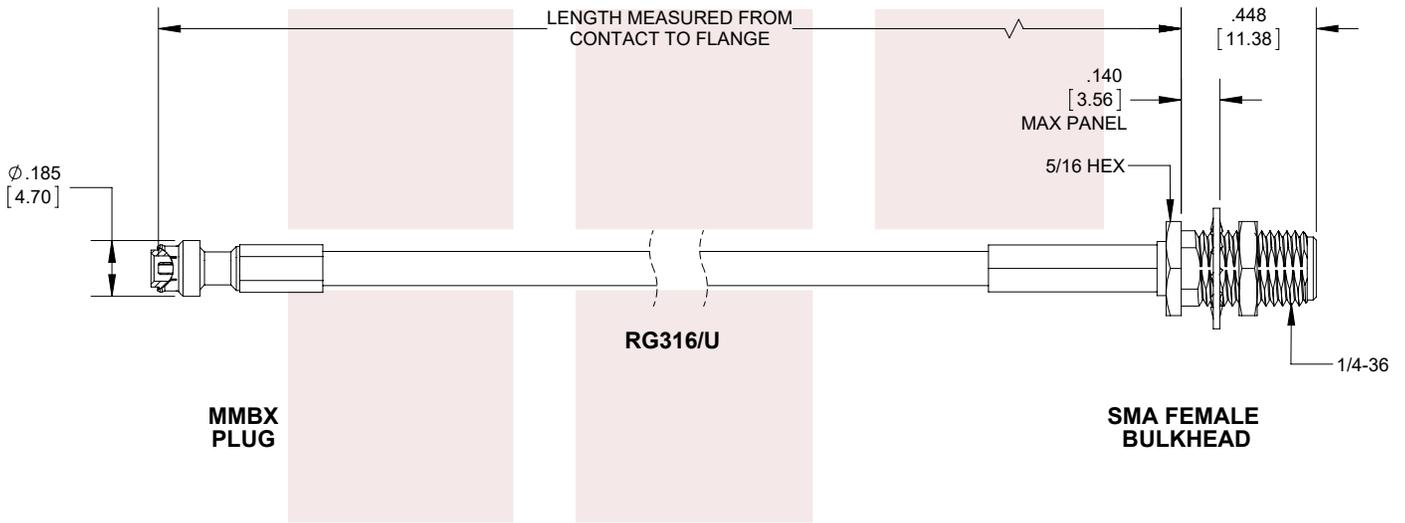
Snap-On MMBX Plug to SMA Female Bulkhead Cable RG316 Coax in 6 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Snap-On MMBX Plug to SMA Female Bulkhead Cable RG316 Coax in 6 Inch FMCA1417-6](#)

URL: <https://www.fairviewmicrowave.com/mmbx-plug-sma-female-cable-rg316u-coax-fmca1417-6-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	±0.2
.XX	±0.01
.XXX	±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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TITLE Snap-On MMBX Plug to SMA Female Bulkhead Cable RG316 Coax in 6 Inch		DWG NO <b>FMCA1417</b>		CAGE CODE <b>3FKR5</b>				
CAD FILE	062217	SHEET	1 OF 1	SCALE	N/A	SIZE	A	9999