

Snap-On RA MMBX Plug to SMA Male Cable RG316 Coax

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.)	0.11	0.16	0.27	0.38	0.58	dB/ft
	0.36	0.52	0.89	1.25	1.9	dB/m

dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.315 in [8 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



Configuration:

- Snap-On MMBX Plug Right Angle
- SMA Male
- RG316

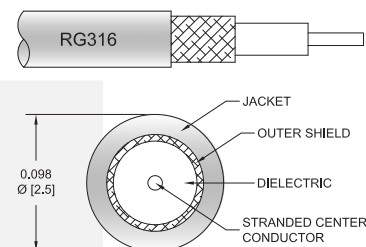
Features:

- 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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Shield Layer 1 Silver Plated Copper Braid
Jacket Material FEP, Tan
Jacket Diameter 0.098 in [2.49 mm]

Connectors

Description	Connector 1	Connector 2
Type	MMBX Plug	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method	Snap-On	
Mating Cycles	100	
Contact Material & Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Spec.		30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Gold	
Body Material & Plating	Brass, Gold	Brass, Nickel
Body Plating Spec.		100 µin minimum
Coupling Nut Material & Plating		Brass, Nickel
Coupling Nut Plating Spec.		100 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

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:

FMCA1420 - xx uu

cm = Centimeters
<blank> = Inches

Length

Example: FMCA1420-12 = 12 inches long cable
FMCA1420-100cm = 100 cm long cable

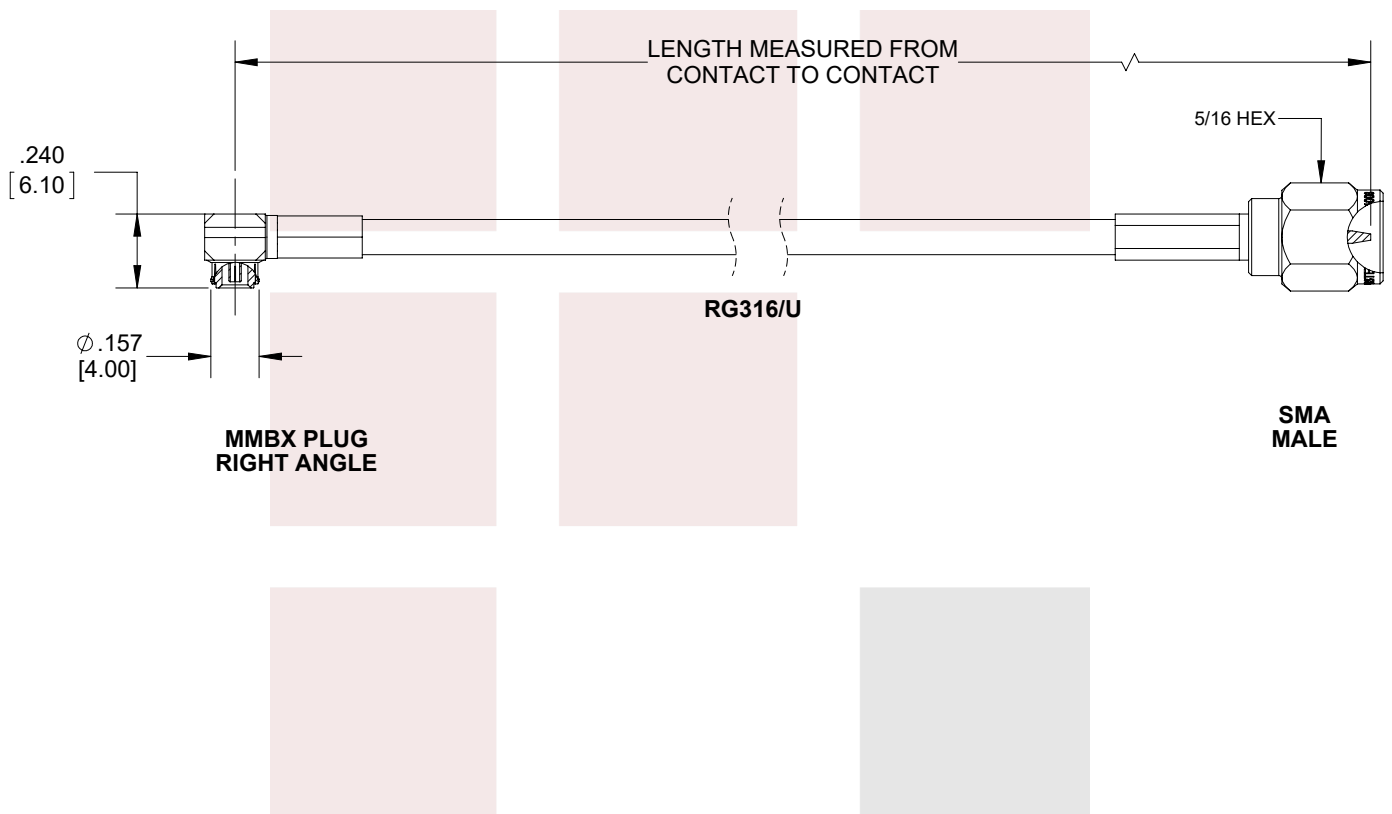
Snap-On RA MMBX Plug to SMA Male Cable RG316 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Snap-On RA MMBX Plug to SMA Male Cable RG316 Coax FMCA1420](https://www.fairviewmicrowave.com/ra-mmbx-plug-sma-male-cable-rg316u-coax-fmca1420-p.aspx)

URL: <https://www.fairviewmicrowave.com/ra-mmbx-plug-sma-male-cable-rg316u-coax-fmca1420-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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DWG NO

FMCA1420

CAGE CODE

3FKR5

CAD FILE 062217

SHEET 1 OF 1

SCALE N/A

SIZE A

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