

Flexible Snap-On RA MMBX Plug to SMA Female Bulkhead Cable RG174 Coax in 50 CM

The RA MMBX plug snap-on to SMA female bulkhead 50 cm cable using RG174 coax, part number FMC00619-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview MMBX to SMA cable assembly has a plug to female gender configuration with 50 ohm flexible RG174 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00619-50CM MMBX plug to SMA female cable assembly operates to 1 GHz. The right angle MMBX interface on the RG174 cable allows for easier connections in tight spaces. Our RF cable assembly with SMA 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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms
Operating Voltage (DC)			250	Vdc
Dielectric Withstanding Voltage (DC)			750	Vdc
Input Power (Average)			17	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Typ.)	0.33	0.39	0.48	0.6	0.78	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]
 Diameter 0.433 in [11 mm]



Configuration:

- Snap-On MMBX Plug Right Angle
- SMA Female Bulkhead
- RG174

Features:

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket

Applications:

- General Purpose
- Laboratory Use

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Cable

Cable Type	RG174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]

Connectors

Description	Connector 1	Connector 2
Type	MMBX Plug	SMA Female
Mount Method		Bulkhead
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method	Snap-On	
Mating Cycles	100	
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.		50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Gold	Brass, Gold
Outer Cond Plating Spec.		3 µin minimum
Body Material & Plating	Brass, Gold	
Hex Size		5/16 inch

Environmental Specifications
Temperature

Operating Range -40 to +80 deg C

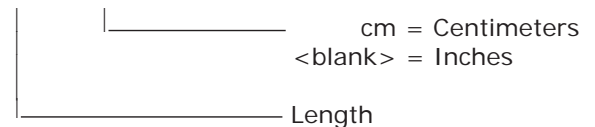
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC00619 - xx uu

 Example: FMC00619-12 = 12 inches long cable
 FMC00619-100cm = 100 cm long cable

Flexible Snap-On RA MMBX Plug to SMA Female Bulkhead Cable RG174 Coax in 50 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

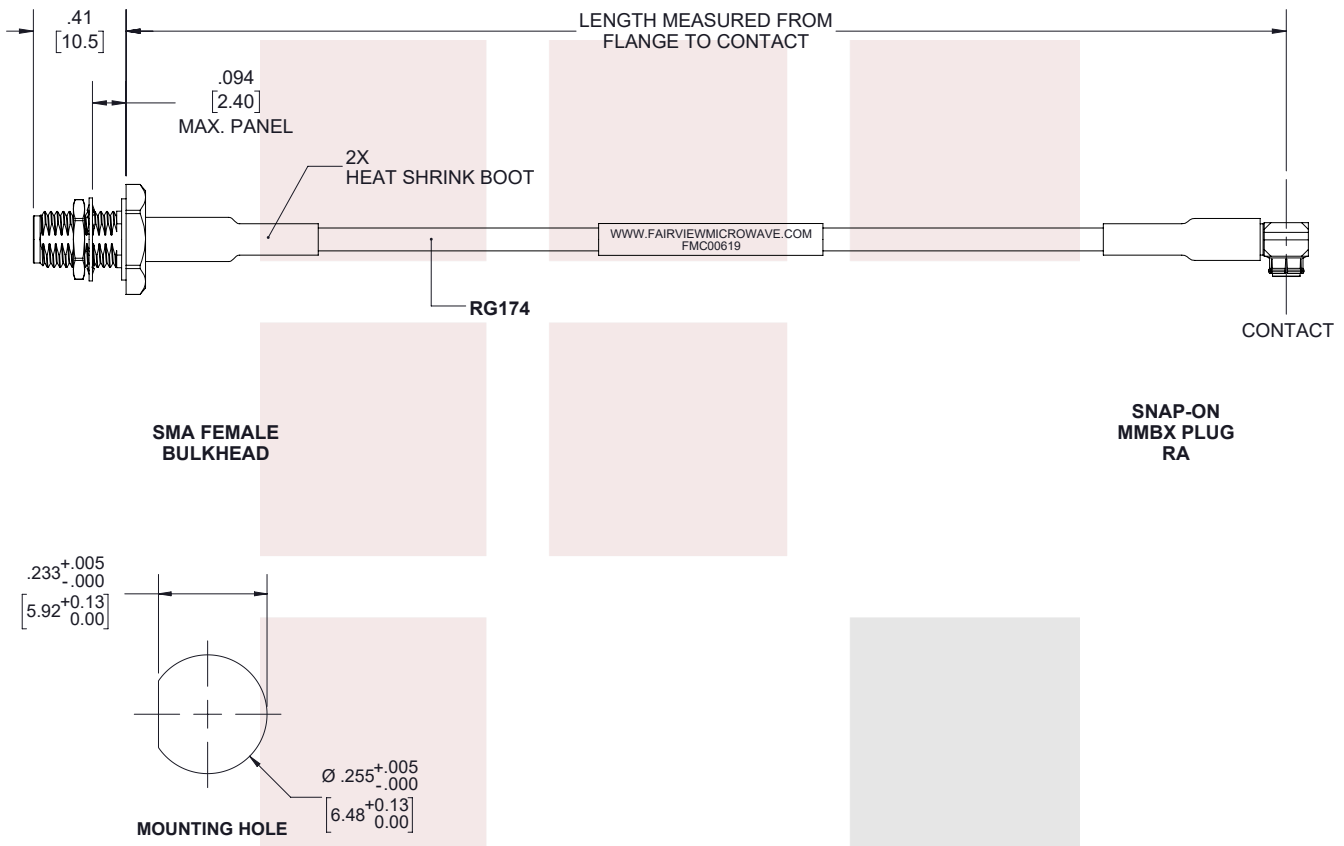
Click the following link to obtain additional part information: [Flexible Snap-On RA MMBX Plug to SMA Female Bulkhead Cable RG174 Coax in 50 CM FMC00619-50CM](https://www.fairviewmicrowave.com/ra-mmbx-plug-sma-female-cable-rg174-coax-fmc00619-50cm-p.aspx)

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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.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	4/19/2021	S.ELLIS



NOTES:

- CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

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<p>Fairview Microwave an INFINIT[®] brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p>		<p>THIRD-ANGLE PROJECTION</p>		
	<p>TOLERANCES:</p> <p>.X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]</p>		<p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0</p>		<p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p>
<p>TITLE</p> <p>Flexible Snap-On RA MMBX Plug to SMA Female Bulkhead Cable RG174 Coax in 50 CM</p>			<p>SHEET 1 OF 1</p>		
<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>			<p>SCALE N/A</p>		
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMC00619	REV A	

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