

Snap-On MMBX Plug to SMA Male Cable 8 Inch Length Using RG178 Coax



RF Cable Assemblies Technical Data Sheet

PE3C3989-8

Configuration

• Connector 1: Snap-On MMBX Plug

• Connector 2: SMA Male

• Cable Type: RG178

Features

· Max. Operating Frequency of 3 GHz

Snap-On mating

Applications

General Purpose Test

PCB Testing

PCB Probing

PCB-to-Panel

Description

Pasternack's MMBX cable assemblies are part of our full line of RF components available for same-day shipping. These MMBX cable assemblies are designed to connect MMBX system components or test connections, delivering signal frequencies as high as 3 GHz. Our family of MMBX cables can also be used to connect from PCB to panel, offering between series MMBX options with SMA Bulkhead, TNC Bulkhead and N Bulkhead assembly configurations. If none of our standard options fit your application, you can specify your own custom MMBX cable assembly using Pasternack's online Cable Creator.

Our MMBX cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Return Loss		-15.563		dB
Insertion Loss			0.73	dB
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Snap-On MMBX Plug to SMA Male Cable 8 Inch Length Using RG178 Coax PE3C3989-8





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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.3	0.35	0.41	0.5	0.73	dB

Mechanical Specifications

Cable Assembly

Length* 8 in [203.2 mm] Diameter 0.315 in [8 mm]

Cable

Cable Type

Impedance Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1 Jacket Material

Jacket Diameter

Repeated Minimum Bend Radius

RG178 50 Ohms Stranded

Copper Clad Steel, Silver

PTFE

Silver Plated Copper Braid

FEP, Tan

0.072 in [1.83 mm]

0.4 in [10.16 mm]

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Connectors

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

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range -55 to +155 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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



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How to Order



Example: PE3C3989-12 = 12 inches long cable

PE3C3989-100cm = 100 cm long cable

Snap-On MMBX Plug to SMA Male Cable 8 Inch Length Using RG178 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/mmbx-plug-sma-male-rg178bu-cable-assembly-pe3c3989-8-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



PE3C3989-8 CAD Drawing
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