Snap-On MMBX Plug to Reverse Polarity SMA Female Bulkhead Cable 6 Inch Length Using RG178 Coax

RF Cable Assemblies Technical Data Sheet   PE3C3991-6

Configuration
- Connector 1: Snap-On MMBX Plug
- Connector 2: SMA Female Reverse Polarity Bulkhead
- Cable Type: RG178

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

Applications
- General Purpose Test
- PCB Probing
- PCB Testing
- 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		-15.56		dB
Insertion Loss			0.6	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 Reverse Polarity SMA Female Bulkhead Cable 6 Inch Length Using RG178 Coax PE3C3991-6

ISO 9001 : 2008 Registered

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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.)	0.27	0.31	0.36	0.43	0.6	dB

Mechanical Specifications

Cable Assembly
Length*	6 in [152.4 mm]
Diameter	0.43 in [10.92 mm]

Cable
Cable Type	RG178
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	0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

Connectors

Description	Connector 1	Connector 2
Type	MMBX Plug	SMA Female Reverse Polarity Bulkhead
Impedance	50 Ohms	50 Ohms
Connection Method	Snap-On	
Mating Cycles	100	500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Gold	
Body Material and Plating	Brass, Gold	Brass, Gold

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

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Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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Bulkhead Cable 6 Inch Length Using RG178 Coax

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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: **PE3C3991**   **- xx   uu**

Unit of Measure:
   cm = Centimeters
   <blank> = Inches
Length
Base Number

Example: PE3C3991-12 = 12 inches long cable
              PE3C3991-100cm = 100 cm long cable

Snap-On MMBX Plug to Reverse Polarity SMA Female Bulkhead Cable 6 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.
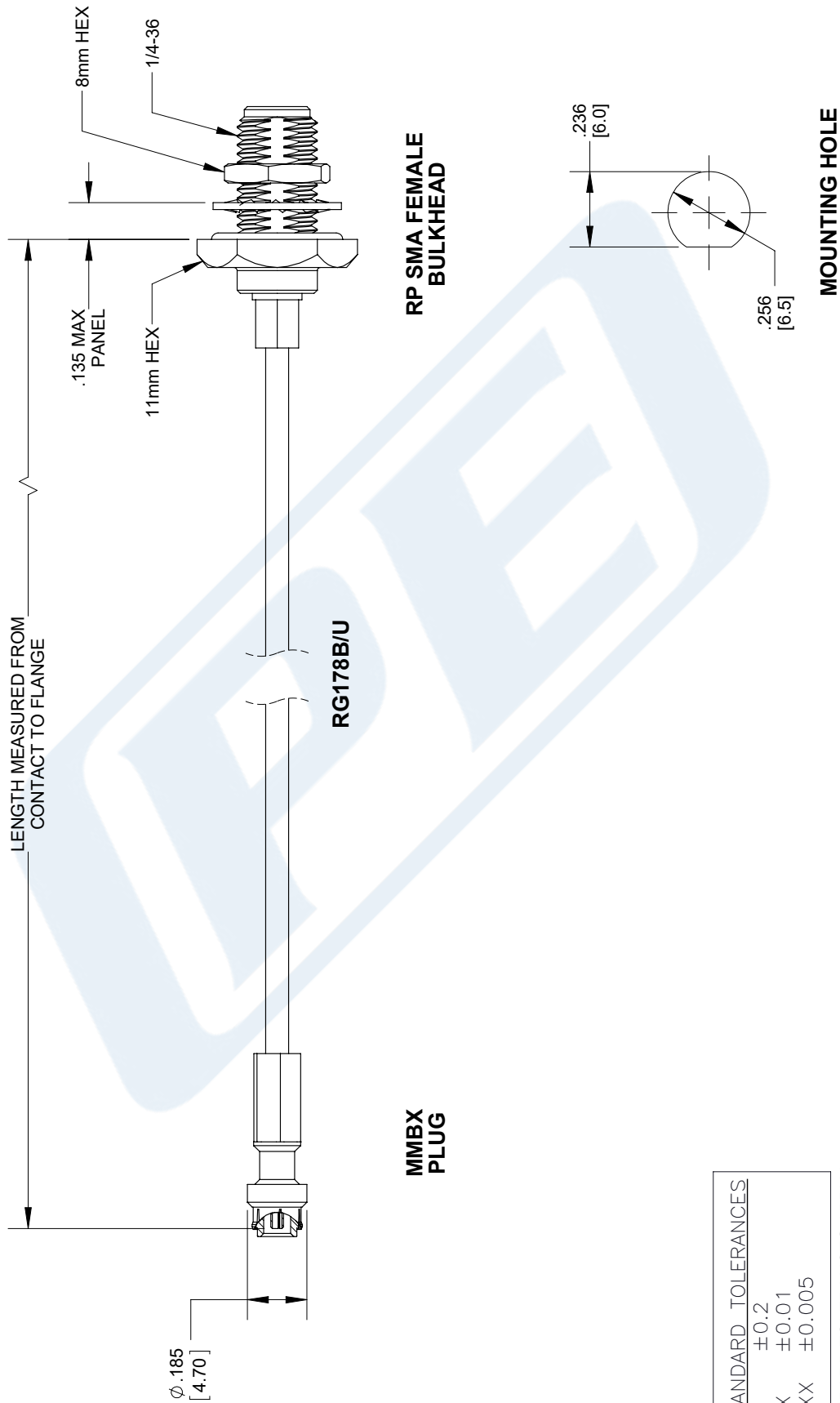
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URL: https://www.pasternack.com/mmbx-plug-sma-female-rg178bu-cable-assembly-pe3c3991-6-p.aspx

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PE3C3991-6 CAD Drawing
Snap-On MMBX Plug to Reverse Polarity SMA Female
Bulkhead Cable 6 Inch Length Using RG178 Coax

8mm HEX

1/4-36

.135 MAX PANEL

11mm HEX

RP SMA FEMALE BULKHEAD

LENGTH MEASURED FROM CONTACT TO FLANGE

RG178B/U

MMBX PLUG

Ø .185 [4.70]

.236 [6.0]

.256 [6.5]

MOUNTING HOLE

STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].

SIZE A	SCALE N/A	9999
CAD FILE 052217		

DWG TITLE
PE3C3991

CAGE CODE **53919**

PE3C3991-6 REV 1.0

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