



Snap-On MMBX Plug to SMA Male Cable 100 cm  
Length Using PE-SR405FLJ Coax with HeatShrink

## RF Cable Assemblies Technical Data Sheet

**PE3W05863/HS-100CM**

### Configuration

- Connector 1: Snap-OnMMBX Plug
- Connector 2: SMA Male
- Cable Type: PE-SR405FLJ

### Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket

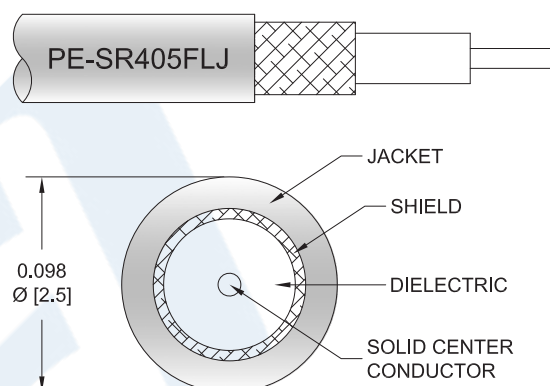
### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W05863/HS-100CM MMBX plug snap-on to SMA male 100 cm cable using PE-SR405FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack MMBX to SMA cable assembly has a plug to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W05863/HS-100CM MMBX plug to SMA male cable assembly operates to 12.4 GHz.

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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.



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 100 cm Length Using PE-SR405FLJ Coax with HeatShrink PE3W05863/HS-100CM](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4	8	12.4	GHz
Insertion Loss (Max.)	0.937	1.203	1.735	2.515	3.168	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length*	39.37 in [100 cm]
Diameter	0.315 in [8 mm]

##### Cable

Cable Type	PE-SR405FLJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor Material and Plating	Tinned Copper Composite Braid
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]

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One Time Minimum Bend Radius  
Repeated Minimum Bend Radius

0.5 in [12.7 mm]  
0.787 in [19.99 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 and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification		50µ in. minimum
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating	Brass, Gold	
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification		3µ in. minimum
Coupling Nut Material and Plating		Brass, Gold
Coupling Nut Plating Specification		3µ in. 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 +125 deg C

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

#### Plotted and Other Data

Notes:

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### How to Order

Part Number Configuration:

**PE3W05863/HS**

**- xx**

**uu**

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

Example: PE3W05863/HS-12 = 12 inches long cable  
PE3W05863/HS-100cm = 100 cm long cable

Snap-On MMBX Plug to SMA Male Cable 100 cm Length Using PE-SR405FLJ Coax with HeatShrink 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-pe-sr405flj-cable-assembly-pe3w05863-hs-100cm-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.

# PE3W05863/HS-100CM CAD Drawing

## Snap-On MMBX Plug to SMA Male Cable 100 cm Length

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