

Snap-On MMBX Plug Right Angle to SMA Female Low Loss Cable Using LMR-100 Coax



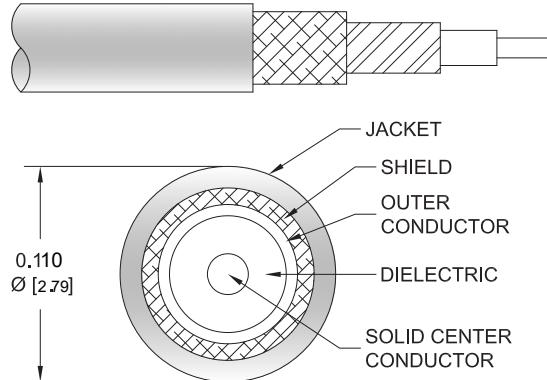
PE3W13423

Configuration

- Connector 1: Snap-On MMBX Plug Right Angle
- Connector 2: SMA Female
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket
- 100 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W13423 MMBX plug snap-on right angle to SMA female cable using LMR-100 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack MMBX to SMA cable assembly has a plug to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3W13423 MMBX plug to SMA female cable assembly operates to 3 GHz. The right angle MMBX interface on the LMR-100A cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical					Maximum	Units
Jacket Spark						2,000		Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3W13423	Custom Lengths Available	Insertion Loss (Typ.)	0.064	0.115	0.165	0.24	0.432	dB/ft	
			0.21	0.38	0.55	0.79	1.42	dB/m	
PE3W13423-24	24 in	Insertion Loss (Typ.)	0.43	0.53	0.63	0.78	1.17	dB	0.031
PE3W13423-36	36 in	Insertion Loss (Typ.)	0.5	0.65	0.8	1.02	1.6	dB	0.04
PE3W13423-48	48 in	Insertion Loss (Typ.)	0.56	0.76	0.96	1.26	2.03	dB	0.049
PE3W13423-100CM	100 CM	Insertion Loss (Typ.)	0.51	0.68	0.85	1.09	1.72	dB	0.043
PE3W13423-200CM	200 CM	Insertion Loss (Typ.)	0.72	1.06	1.39	1.88	3.14	dB	0.073

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.022 pounds
Additional Weight per Inch:	0.00075 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.022 lbs [9.98 g]

Cable

Cable Type	LMR-100A
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs·ft [0.14 N·m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	MMBX Plug Right Angle	SMA Female
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Connection Method	Snap-On	
Mating Cycles	100	100
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Gold	Brass, Nickel
Body Material and Plating	Brass, Gold	Brass, Nickel

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

Compliance Certifications

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

Plotted and Other Data

Notes:

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PE3W13423

Typical Performance Data

How to Order

Part Number Configuration:

PE3W13423 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3W13423-12 = 12 inches long cable
PE3W13423-100cm = 100 cm long cable

Snap-On MMBX Plug Right Angle to SMA Female Low Loss Cable Using LMR-100 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.

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 Right Angle to SMA Female Low Loss Cable Using LMR-100 Coax PE3W13423](#)

URL: <https://www.pasternack.com/snap-on-mmbx-plug-right-angle-to-sma-female-low-loss-cable-using-lmr-100-pe3w13423-p.aspx>

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PE3W13423 CAD Drawing

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