

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

PE3W13423

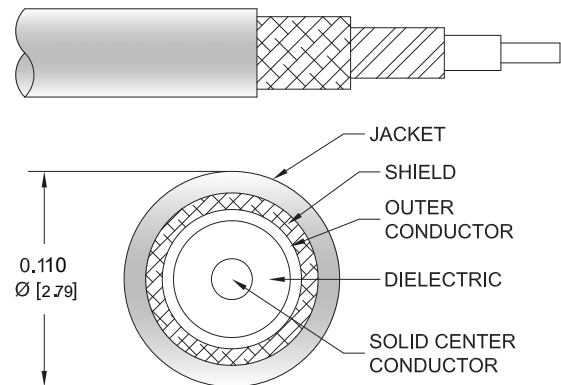


Configuration

- 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

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- 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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