



## SMA Male to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax in 60 Inch

### RF Cable Assemblies Technical Data Sheet

**PE3W13210-60**

#### Configuration

- Connector 1: SMA Male
- Connector 2: MCX Plug Right Angle
- Cable Type: LMR-100A-UF

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- TPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W13210-60 SMA male to MCX plug right angle cable using LMR-100A-UF 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 SMA to MCX cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-100A-UF coax. The PE3W13210-60 SMA male to MCX plug cable assembly operates to 3 GHz. The right angle MCX interface on the LMR-100A-UF 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax in 60 Inch PE3W13210-60](#)



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**Electrical Specifications**

| Description                   | Minimum | Typical       | Maximum | Units                            |
|-------------------------------|---------|---------------|---------|----------------------------------|
| Frequency Range               | DC      |               | 3       | GHz                              |
| VSWR                          |         |               | 1.5:1   |                                  |
| 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]   |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 9.5 [31.17]   |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |         |               | 2,000   | Vrms                             |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 3    | GHz   |
| Insertion Loss (Typ.) | 0.65 | 0.88 | 1.13 | 1.44 | 2.48 | dB/ft |
|                       | 2.13 | 2.89 | 3.71 | 4.72 | 8.14 | dB/m  |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

**Mechanical Specifications**

**Cable Assembly**

Length\* 60 in [152.4 cm]  
Weight 0.061 lbs [27.67 g]

**Cable**

Cable Type LMR-100A-UF  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper  
Dielectric Type PE  
Number of Shields 2  
Shield Layer 1 Aluminum Tape  
Shield Layer 2 Tinned Copper

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|                              |                        |
|------------------------------|------------------------|
| Jacket Material              | TPE, 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]        |

**Connectors**

| Description                        | Connector 1        | Connector 2          |
|------------------------------------|--------------------|----------------------|
| Type                               | SMA Male           | MCX Plug Right Angle |
| Specification                      | MIL-STD-348A       | CECC 22220           |
| Impedance                          | 50 Ohms            | 50 Ohms              |
| Contact Material and Plating       | Brass, Gold        | Brass, Gold          |
| Contact Plating Specification      | 30 µin minimum     | 30 µin minimum       |
| Dielectric Type                    | PTFE               | PTFE                 |
| Body Material and Plating          | Brass, Nickel      | Brass, Nickel        |
| Body Plating Specification         | 100 µin minimum    | 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] |                      |

**Environmental Specifications**

**Temperature**

Operating Range -40 to +60 deg C

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

**Plotted and Other Data**

Notes:

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## SMA Male to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax in 60 Inch

### RF Cable Assemblies Technical Data Sheet

**PE3W13210-60**

#### How to Order

Part Number Configuration:

**PE3W13210**

- **xx**

**uu**

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

Example: PE3W13210-12 = 12 inches long cable  
PE3W13210-100cm = 100 cm long cable

SMA Male to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax in 60 Inch 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: [SMA Male to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax in 60 Inch PE3W13210-60](https://www.pasternack.com/sma-male-to-mcx-plug-right-angle-low-loss-cable-using-lmr-100a-uf-pe3w13210-60-p.aspx)

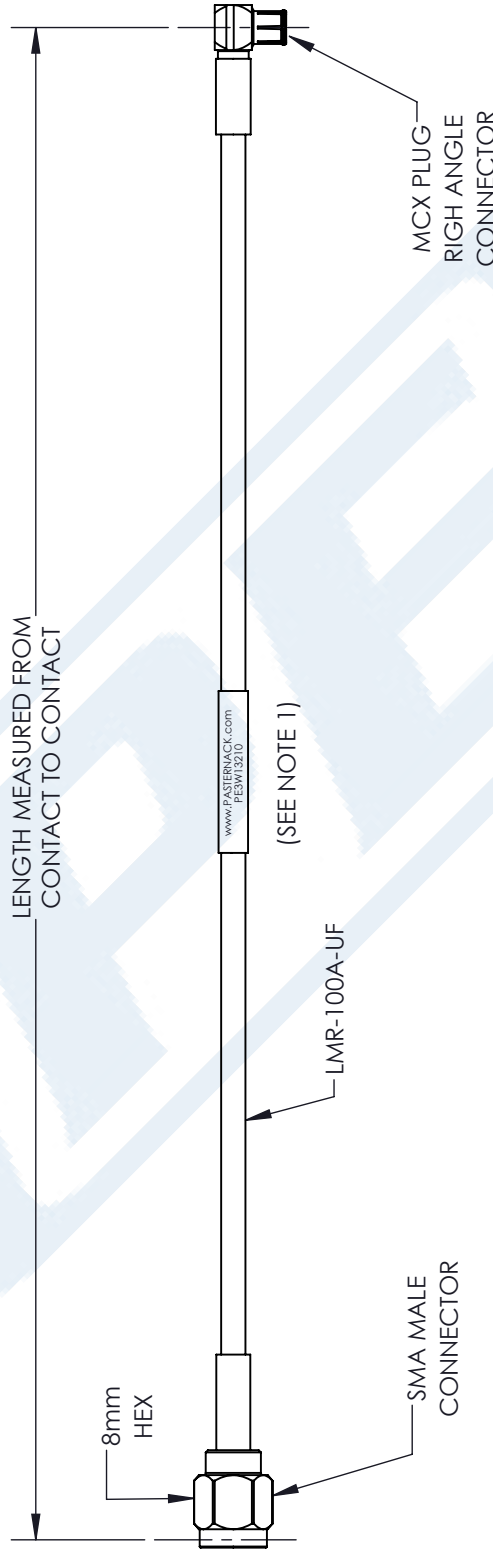
URL: <https://www.pasternack.com/sma-male-to-mcx-plug-low-loss-cable-using-lmr-100a-uf-pe3w13210-60-p.aspx>

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.

# PE3W13210-60 CAD Drawing

SMA Male to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax in 60 Inch

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 08/10/2022 | AGANWANI |



|  |  |     |   |
|--|--|-----|---|
| <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [ .008 ]    FRACTIONS ± 1/32<br/>         .XX = ±.02 [ .51 ]    ANGLES ± 1°<br/>         .XXX = ±.005 [ .13 ]</p> <p>CABLE LENGTH (L) TOLERANCES:<br/>         L ≤ 12 [305] = +1 [25] / -0<br/>         12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0<br/>         60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0<br/>         120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0<br/>         300 [7620] &lt; L = +5% / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | <p><b>PE PASTERNAK</b><br/>an INFINITI brand</p> <p>Pasternack Enterprises, Inc.<br/>         P. O. Box 16759, Irvine, CA 92623.<br/>         Phone: 1.949.261.1920   1.866.727.8376<br/>         Fax: 1.949.261.7451<br/>         Website: www.pasternack.com<br/>         E-mail: sales@pasternack.com</p> |     | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |
|  | <p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY BPUCHASKI</p> <p>ITEM NO. PE3W13210</p>   | REV | A   |

**NOTES:**

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM END OF CONNECTOR

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