## SMA Male to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax in 50CM

## 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 PE3W13210-50CM 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 PE3W13210-50CM 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 50CM PE3W13210-50CM

[^0]Sales@Pasternack.com •Techsupport@Pasternack.com

## SMA Male to MCX Plug Right Angle Low Loss

 Cable Using LMR-100A-UF Coax in 50CMElectrical 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] |  | $\mathrm{ns} / \mathrm{ft}[\mathrm{ns} / \mathrm{m}]$ |
| Capacitance |  | 30.8 [101.05] |  | $\mathrm{pF} / \mathrm{ft}[\mathrm{pF} / \mathrm{m}]$ |
| Inductance |  | 0.077 [0.25] |  | $\mathrm{uH} / \mathrm{ft}[\mathrm{uH} / \mathrm{m}]$ |
| DC Resistance Inner Conductor |  | 81 [265.75] |  | $\Omega / 1000 \mathrm{ft}[\Omega / \mathrm{Km}]$ |
| DC Resistance Outer Conductor |  | 9.5 [31.17] |  | $\Omega / 1000 \mathrm{ft}[\Omega / \mathrm{Km}]$ |
| 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.) | 0.42 | 0.49 | 0.58 | 0.68 | 1.02 | $\mathrm{~dB} / \mathrm{ft}$ |
|  | 1.38 | 1.61 | 1.9 | 2.23 | 3.35 | $\mathrm{~dB} / \mathrm{m}$ |

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* $\quad 19.68$ in [499.87 mm]
Weight
Cable
Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2
$0.027 \mathrm{lbs}[12.25 \mathrm{~g}]$

LMR-100A-UF
50 Ohms
Solid
Copper
PE
2
Aluminum Tape
Tinned Copper

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 50CM PE3W13210-50CM

[^1]Sales@Pasternack.com •Techsupport@Pasternack.com

## SMA Male to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax in 50CM

Jacket Material
Jacket Diameter
One Time Minimum Bend Radius
Repeated Minimum Bend Radius
Bending Moment
Flat Plate Crush
Tensile Strength

TPE, Black
0.11 in [2.79 mm]
0.25 in [ 6.35 mm ]

1 in [ 25.4 mm ]
$0.1 \mathrm{lbs}-\mathrm{ft}[0.14 \mathrm{~N}-\mathrm{m}]$
$10 \mathrm{lbs} / \mathrm{in}[0.18 \mathrm{Kg} / \mathrm{mm}]$
$15 \mathrm{lbs}[6.8 \mathrm{Kg}$ ]

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 | $30 \mu$ in minimum | $30 \mu$ in minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | $100 \mu$ in minimum | $100 \mu$ in minimum |
| Coupling Nut Material and Plating | Brass, Nickel |  |
| Coupling Nut Plating Specification | $100 \mu$ in minimum |  |
| Hex Size | $5 / 16$ inch |  |
| Torque | 3 in-lbs $[0.34 \mathrm{Nm}]$ |  |

Environmental Specifications
Temperature
Operating Range -40 to $+60 \operatorname{deg} \mathrm{C}$
Compliance Certifications (see product page for current document)
Plotted and Other Data
Notes:

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 50CM PE3W13210-50CM

[^2]Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451
Sales@Pasternack.com •Techsupport@Pasternack.com

SMA Male to MCX Plug Right Angle Low Loss
Cable Using LMR-100A-UF Coax in 50CM

## How to Order

Part Number Configuration:


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

SMA Male to MCX Plug Right Angle Low Loss Cable Using LMR-100A-UF Coax in 50CM 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 50CM PE3W13210-50CM

URL: https://www.pasternack.com/sma-male-to-mcx-plug-low-loss-cable-using-Imr-100a-uf-pe3w13210-50cm-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.

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


UNLESS OTHERWISE SPECIFIED
LEADIIG DIMENSIONS ARE INCHES
DIMENSIONS INII ARE MILLIMETERS



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

[^0]:    Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
    Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

[^1]:    Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
    Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

[^2]:    Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623

