



## MCX Plug to N Female Low Loss Cable Using LMR-100 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

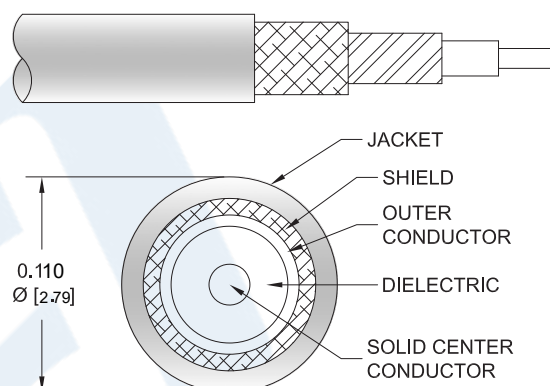
**PE3W06302/HS**

#### Configuration

- Connector 1: MCX Plug
- Connector 2: N Female
- Cable Type: LMR-100A

#### Features

- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W06302/HS MCX plug to type N 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 MCX to type N cable assembly has a plug to female gender configuration with 50 ohm flexible LMR-100A coax. 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           |
|-------------------------------|---------|---------------|---------|-----------------|
| 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]   |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 9.5 [31.17]   |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |               | 2,000   | Vrms            |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug to N Female Low Loss Cable Using LMR-100 Coax with HeatShrink PE3W06302/HS](#)



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**PE3W06302/HS**

#### Mechanical Specifications

##### Cable Assembly

Weight 0.085 lbs [38.56 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]

##### Connectors

| Description                   | Connector 1     | Connector 2   |
|-------------------------------|-----------------|---------------|
| Type                          | MCX Plug        | N Female      |
| Specification                 | CECC 22220      |               |
| Impedance                     | 50 Ohms         | 50 Ohms       |
| Contact Material and Plating  | Brass, Gold     | Gold          |
| Contact Plating Specification | 30 µin minimum  |               |
| Dielectric Type               | PTFE            | PTFE          |
| Body Material and Plating     | Brass, Nickel   | Brass, Nickel |
| Body Plating Specification    | 100 µin minimum |               |

#### Environmental Specifications

##### Temperature

Operating Range -40 to +85 deg 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: [MCX Plug to N Female Low Loss Cable Using LMR-100 Coax with HeatShrink PE3W06302/HS](#)



## MCX Plug to N Female Low Loss Cable Using LMR-100 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

**PE3W06302/HS**

#### How to Order

Part Number Configuration:

**PE3W06302/HS**

- **xx**

**uu**

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

Example: PE3W06302/HS-12 = 12 inches long cable  
PE3W06302/HS-100cm = 100 cm long cable

MCX Plug to N Female Low Loss Cable Using LMR-100 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.

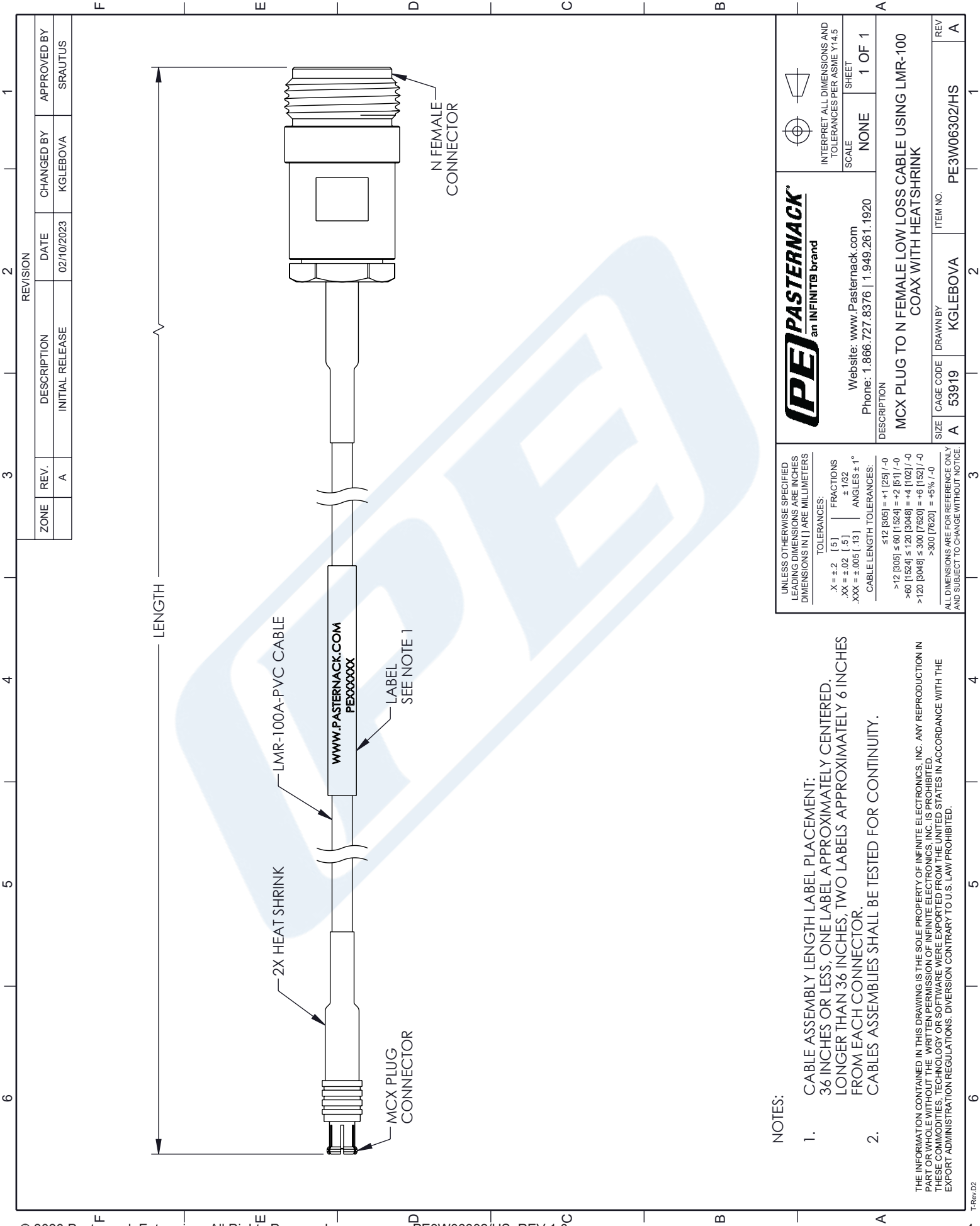
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug to N Female Low Loss Cable Using LMR-100 Coax with HeatShrink PE3W06302/HS](#)

URL: <https://www.pasternack.com/mcx-plug-to-n-female-low-loss-cable-using-lmr-100-with-heatshrink-pe3w06302-hs-p.aspx>

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PE3W06302/HS CAD Drawing

MCX Plug to N Female Low Loss Cable Using LMR-100 Coax with HeatShrink



NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES  
FROM EACH CONNECTOR.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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|  | SCALE  | SHEET        |
| Website: www.Pasternack.com<br>Phone: 1.866.727.8376   1.949.261.1920  | NONE   | 1 OF 1       |
| DESCRIPTION  |  |              |
| MCX PLUG TO N FEMALE LOW LOSS CABLE USING LMR-100 COAX WITH HEATSHRINK   |  |              |
| SIZE   | CAGE CODE  | ITEM NO.     |
| A  | 53919  | PE3W06302/HS |
| DRAWN BY   |  | REV          |
| KGLEBOVA   |  | A            |