



SMA Male to MCX Plug Cable 150 cm Length Using RG316 Coax with HeatShrink, LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W02270LF/HS-150CM

Configuration

- Connector 1: SMA Male
- Connector 2: MCX Plug
- Cable Type: RG316

Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02270LF/HS-150CM SMA male to MCX plug 150 cm cable using RG316 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 RG316 coax. The PE3W02270LF/HS-150CM SMA male to MCX plug cable assembly operates to 3 GHz.

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 | | | 1.5:1 | |
| Velocity of Propagation | | 69 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | | 8.41 [27.59] | | 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: [SMA Male to MCX Plug Cable 150 cm Length Using RG316 Coax with HeatShrink, LF Solder PE3W02270LF/HS-150CM](#)



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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Max.) | 0.74 | 0.93 | 1.18 | 1.67 | 2.9 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 59.06 in [150.01 cm]

Cable

Cable Type RG316
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Shield Layer 1 Silver Plated Copper Braid
 Jacket Material FEP, Tan
 Jacket Diameter 0.102 in [2.59 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|--------------------|------------------|
| Type | SMA Male | MCX Plug |
| Specification | | CECC 22220 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | | 30μ in. minimum |
| Dielectric Type | PTFE | Teflon |
| Body Material and Plating | Brass, Gold | Brass, Nickel |
| Body Plating Specification | | 100μ in. minimum |
| Coupling Nut Material and Plating | Brass, Gold | |
| Hex Size | 5/16 in | |
| Torque | 5 in-lbs [0.57 Nm] | |

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3W02270LF/HS-150CM

How to Order

Part Number Configuration:

PE3W02270LF/HS - xx

uu

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

Example: PE3W02270LF/HS-12 = 12 inches long cable
PE3W02270LF/HS-100cm = 100 cm long cable

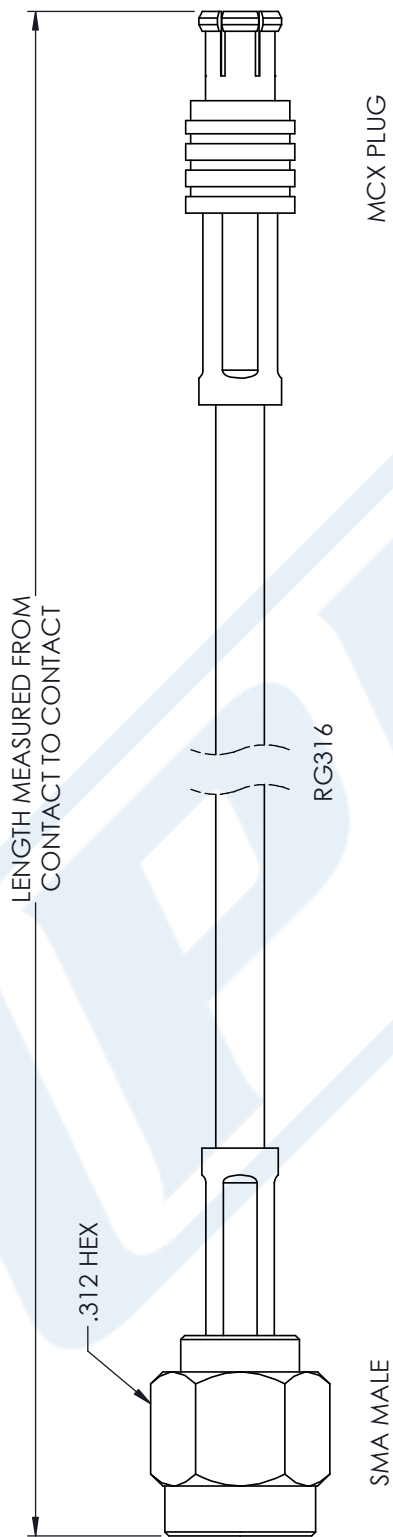
SMA Male to MCX Plug Cable 150 cm Length Using RG316 Coax with HeatShrink, LF Solder from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 Cable 150 cm Length Using RG316 Coax with HeatShrink, LF Solder PE3W02270LF/HS-150CM](https://www.pasternack.com/sma-male-mcx-plug-rg316u-cable-assembly-pe3w02270lf-hs-150cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-mcx-plug-rg316u-cable-assembly-pe3w02270lf-hs-150cm-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.

PE3W02270LF/HS-150CM CAD Drawing
SMA Male to MCX Plug Cable 150 cm Length Using
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| STANDARD TOLERANCES | |
|---------------------|--------|
| .X | ±0.2 |
| .XX | ±0.01 |
| .XXX | ±0.005 |

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



PASTERNAK[®]
THE ENGINEER'S RF SOURCE

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| | |
|-----------|----------------|
| DWG TITLE | PE3W02270LF/HS |
| CAGE CODE | 53919 |

| | | |
|---|----------|-----------|
| NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | |
| CAD FILE | 02/08/18 | SCALE N/A |
| SIZE A | | GF0006 |