



#### **RF Cable Assemblies Technical Data Sheet**

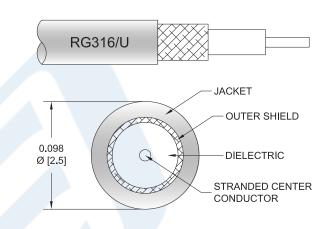
#### PE3W12639/HS

#### Configuration

Connector 1: SMC PlugConnector 2: MMCX PlugCable Type: RG316

#### **Features**

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



### **Applications**

· General Purpose

Laboratory Use

#### Description

Pasternack's PE3W12639/HS SMC plug to MMCX plug 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 SMC to MMCX cable assembly has a plug to plug gender configuration with 50 ohm flexible RG316 coax. The PE3W12639/HS SMC plug to MMCX 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMC Plug to MMCX Plug Cable Using RG316 Coax with HeatShrink PE3W12639/HS

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





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#### PE3W12639/HS

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		733	1.4:1	
Velocity of Propagation		69		%
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

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Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.11 0.36	0.16 0.52	0.238 0.78	0.38 1.25	0.58 1.9	dB/ft dB/m

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Weight 0.028 lbs [12.7 g]

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	
Туре	SMC Plug	MMCX Plug	
Specification	MIL-STD-348A	BS EN 122340	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification	30 μin minimum	30 μin minimum	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Gold	
Outer Conductor Plating Specification		3 µin minimum	
Body Material and Plating	Brass, Nickel	Brass, Gold	
Body Plating Specification	100 μin minimum	3 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel		
Coupling Nut Plating Specification	100 μin minimum		
Hex Size	1/4 inch		

### **Environmental Specifications**

**Temperature** 

Operating Range

-55 to +155 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

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#### **RF Cable Assemblies Technical Data Sheet**

#### PE3W12639/HS

#### **How to Order**

Part Number Configuration:

PE3W12639/HS - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
<br/>
Length
Base Number

Example: PE3W12639/HS-12 = 12 inches long cable PE3W12639/HS-100cm = 100 cm long cable

SMC Plug to MMCX Plug Cable Using RG316 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.

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URL: https://www.pasternack.com/smc-plug-to-mmcx-plug-cable-using-rg316-with-heatshrink-pe3w12639-hs-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.

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PE3W12639/HS CAD Drawing
SMC Plug to MMCX Plug Cable Using RG316 Coax with HeatShrink

