



## SMA Female Bulkhead to MCX Plug Cable Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

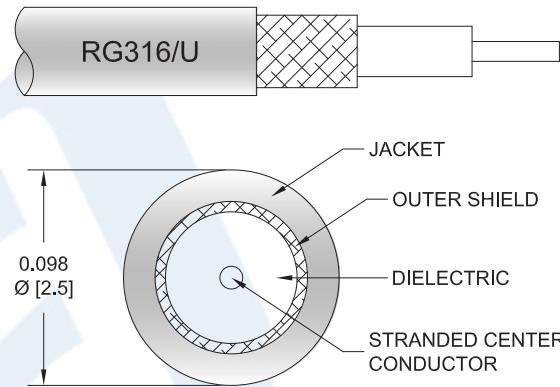
**PE3W01667**

#### Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: MCX Plug
- Cable Type: RG316
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01667 SMA female bulkhead to MCX 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 SMA to MCX cable assembly has a female to plug gender configuration with 50 ohm flexible RG316 coax. The PE3W01667 SMA female to MCX plug cable assembly operates to 3 GHz. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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 Female Bulkhead to MCX Plug Cable Using RG316 Coax PE3W01667](#)



## SMA Female Bulkhead to MCX Plug Cable Using RG316 Coax

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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Capacitance	32 [104.99]			pF/ft [pF/m]

**Specifications by Frequency**

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

**Electrical Specification Notes:**

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

**Mechanical Specifications**
**Cable Assembly**

Weight 0.031 lbs [14.06 g]

**Cable**

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver PTFE
Dielectric Type	1
Number of Shields	Silver Plated Copper Braid
Shield Layer 1	FEP, Tan
Jacket Material	0.098 in [2.49 mm]
Jacket Diameter	

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## SMA Female Bulkhead to MCX Plug Cable Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W01667**

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Female Bulkhead	MCX Plug
Specification		CECC 22220
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification		30 $\mu$ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification		100 $\mu$ in. minimum

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +155 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: [SMA Female Bulkhead to MCX Plug Cable Using RG316 Coax PE3W01667](#)



## SMA Female Bulkhead to MCX Plug Cable Using RG316 Coax

**RF Cable Assemblies Technical Data Sheet****PE3W01667****How to Order**

Part Number Configuration:

**PE3W01667**- **xx****uu**

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

Example: PE3W01667-12 = 12 inches long cable  
PE3W01667-100cm = 100 cm long cable

SMA Female Bulkhead to MCX Plug Cable Using RG316 Coax 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.

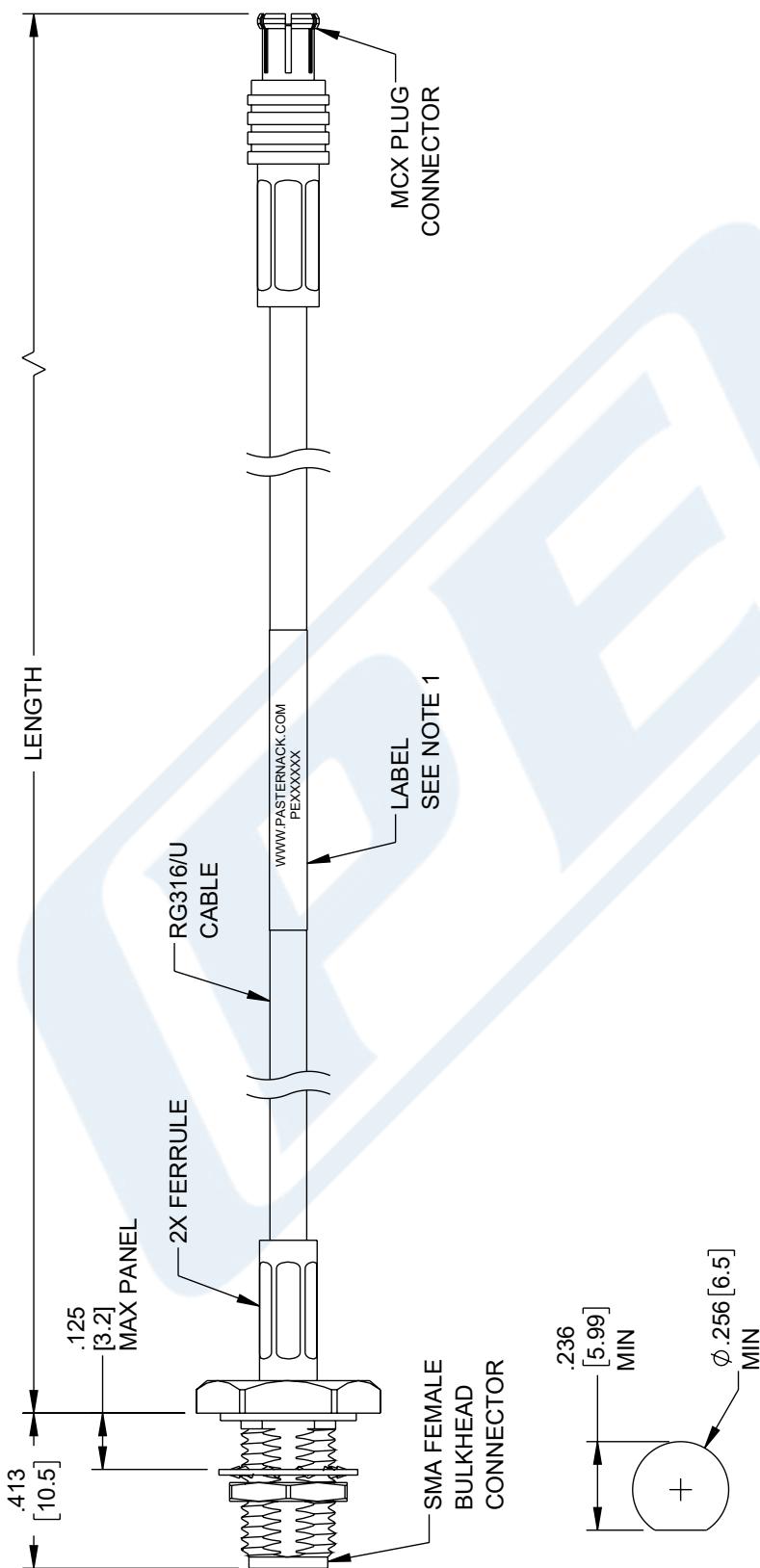
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URL: <https://www.pasternack.com/sma-female-bulkhead-to-mcx-plug-cable-using-rg316-pe3w01667-p.aspx>

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.

## PE3W01667 CAD Drawing

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NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS,  
ONE LABEL APPROX CENTERED LONGER THAN 36 INCH,  
TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR  
CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2.

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SMA FEMALE BULKHEAD TO MCX PLUG CABLE USING RG316 COAX			
ITEM NO.	REV	PE3W01667	A
SIZE	CAGE CODE	DRAWN BY	
A	55919	SREITTER	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	3	2	1