

## SMA Male to SMA Female Cable Using RG316 Coax with HeatShrink



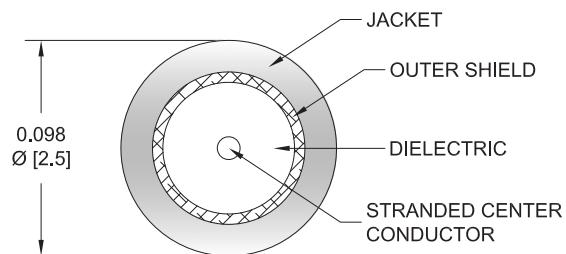
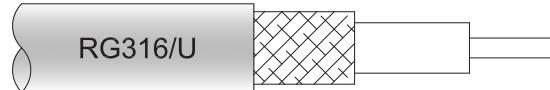
### PE3W01703/HS

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female
- Cable Type: RG316
- Coax Flex Type: Flexible

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01703/HS SMA male to SMA female 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 SMA cable assembly has a male to female gender configuration with 50 ohm flexible RG316 coax. The PE3W01703/HS SMA male to SMA female 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			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3W01703/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.16	0.238	0.38	0.58	dB/ft	
			0.37	0.53	0.79	1.25	1.91	dB/m	
PE3W01703/HS-12	12 Inch	Insertion Loss (Typ.)	0.46	0.51	0.59	0.73	0.93	dB	0.027
PE3W01703/HS-24	24 Inch	Insertion Loss (Typ.)	0.57	0.67	0.83	1.11	1.51	dB	0.037
PE3W01703/HS-36	36 Inch	Insertion Loss (Typ.)	0.68	0.83	1.07	1.49	2.09	dB	0.047
PE3W01703/HS-48	48 Inch	Insertion Loss (Typ.)	0.79	0.99	1.31	1.87	2.67	dB	0.057
PE3W01703/HS-72	72 Inch	Insertion Loss (Typ.)	1.01	1.31	1.78	2.63	3.83	dB	0.077

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.25 dB  
 Loss due to Connector 2: 0.1 dB  
 Base Weight: 0.027 pounds  
 Additional Weight per Inch: 0.32917 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.027 lbs [12.25 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
Type	SMA Male	SMA Female
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		100
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	15 $\mu$ in minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	200 $\mu$ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	200 $\mu$ in minimum	

#### Environmental Specifications

Operating Range Temperature -40 to +125 deg C

#### Compliance Certifications

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

#### Plotted and Other Data

Notes:

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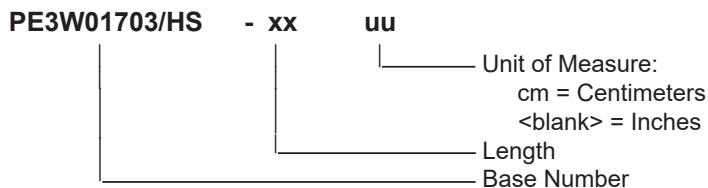


### PE3W01703/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3W01703/HS-12 = 12 inches long cable  
PE3W01703/HS-100cm = 100 cm long cable

SMA Male to SMA Female 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.

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 SMA Female Cable Using RG316 Coax with HeatShrink PE3W01703/HS](#)

URL: <https://www.pasternack.com/sma-male-to-sma-female-cable-using-rg316-with-heatshrink-pe3w01703-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3W01703/HS CAD Drawing

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