

## N Female Bulkhead to SMA Male Cable Using RG316 Coax



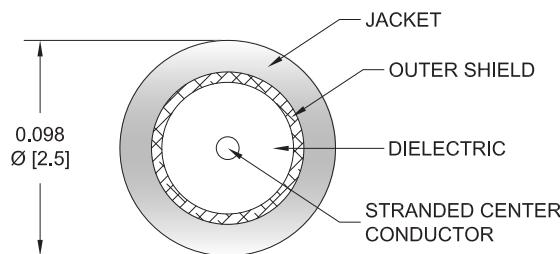
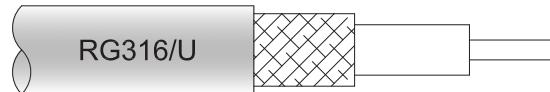
### PE3W02662

#### Configuration

- Connector 1: N Female Bulkhead
- Connector 2: SMA Male
- 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 PE3W02662 type N female bulkhead to SMA male cable 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 type N to SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG316 coax. The PE3W02662 type N female to SMA male cable assembly operates to 3 GHz. Our RF cable assembly with type N 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.

#### 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)			375	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	
PE3W02662	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	
PE3W02662-12	12 Inch	Insertion Loss (Typ.)	0.46	0.51	0.59	0.73	0.93	dB	0.103
PE3W02662-24	24 Inch	Insertion Loss (Typ.)	0.57	0.67	0.83	1.11	1.51	dB	0.113
PE3W02662-36	36 Inch	Insertion Loss (Typ.)	0.68	0.83	1.07	1.49	2.09	dB	0.123
PE3W02662-48	48 Inch	Insertion Loss (Typ.)	0.79	0.99	1.31	1.87	2.67	dB	0.133
PE3W02662-72	72 Inch	Insertion Loss (Typ.)	1.01	1.31	1.78	2.63	3.83	dB	0.153

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: 0.1 dB  
Loss due to Connector 2: 0.25 dB  
Base Weight: 0.103 pounds  
Additional Weight per Inch: 0.32917 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
Weight 0.103 lbs [46.72 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	N Female Bulkhead	SMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	15 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	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)

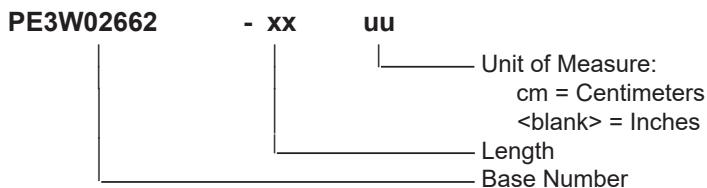
### Plotted and Other Data

Notes:

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**PE3W02662****Typical Performance Data****How to Order**

Part Number Configuration:



Example: PE3W02662-12 = 12 inches long cable  
PE3W02662-100cm = 100 cm long cable

N Female Bulkhead to SMA Male 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead to SMA Male Cable Using RG316 Coax PE3W02662](#)

URL: <https://www.pasternack.com/n-female-bulkhead-to-sma-male-cable-using-rg316-pe3w02662-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.

**PE3W02662 CAD Drawing**

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