

## N Female Bulkhead to N Female Bulkhead Low Loss Cable Using LMR-600-UF Coax with Times Microwave Components



### PE3W16318

#### Configuration

- Connector 1: N Female Bulkhead
- Connector 2: N Female Bulkhead
- Cable Type: LMR-600-UF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- TPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W16318 type N female bulkhead to type N female bulkhead cable using LMR-600-UF 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 type N to type N cable assembly has a female to female gender configuration with 50 ohm flexible LMR-600-UF coax. The PE3W16318 type N female to type N female cable assembly operates to 6 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. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		87		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.43 [1.41]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			1,000	Vrms

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3W16318	Custom Lengths Available	Insertion Loss (Typ.)	0.015	0.022	0.032	0.053	0.075	dB/ft	
			0.05	0.08	0.11	0.18	0.25	dB/m	
PE3W16318-12	12 inch	Insertion Loss (Typ.)	0.22	0.23	0.24	0.26	0.28	dB	0.516
PE3W16318-36	36 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.36	0.43	dB	0.869
PE3W16318-60	48 inch	Insertion Loss (Typ.)	0.28	0.31	0.36	0.47	0.58	dB	1.221
PE3W16318-120	120 inch	Insertion Loss (Typ.)	0.35	0.42	0.52	0.73	0.95	dB	2.101
PE3W16318-300	300 inch	Insertion Loss (Typ.)	0.58	0.75	1	1.53	2.08	dB	4.741

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:	0.1 dB
Base Weight:	0.516 pounds
Additional Weight per Inch:	0.01467 pounds

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.516 lbs [234.05 g]

##### Cable

Cable Type	LMR-600-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
Jacket Material	TPE, Black
Jacket Diameter	0.59 in [14.99 mm]
One Time Minimum Bend Radius	1.5 in [38.1 mm]
Repeated Minimum Bend Radius	6 in [152.4 mm]
Bending Moment	1.75 lbs-ft [2.37 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead	N Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Silver	Brass, Silver

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

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**PE3W16318**

## Typical Performance Data

## How to Order

Part Number Configuration:

**PE3W16318**

- XX

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- Unit of Measure:  
cm = Centimeters  
<blank> = Inches

- Length

- Base Number

Example: PE3W16318-12 = 12 inches long cable  
PE3W16318-100cm = 100 cm long cable

N Female Bulkhead to N Female Bulkhead Low Loss Cable Using LMR-600-UF Coax with Times Microwave Components 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 N Female Bulkhead Low Loss Cable Using LMR-600-UF Coax with Times Microwave Components PE3W16318](#)

URL: <https://www.pasternack.com/n-female-bulkhead-to-n-female-bulkhead-low-loss-cable-using-lmr-600-uf-pe3w16318-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.

PE3W16318 CAD Drawing
N Female Bulkhead to N Female Bulkhead Low Loss Cable Using LMR-600-UF Coax with Times Microwave Components

