

## N Female Bulkhead to N Female Bulkhead Low Loss Cable Using LMR-400 Coax With Times Microwave Components



### RF Cable Assemblies Technical Data Sheet

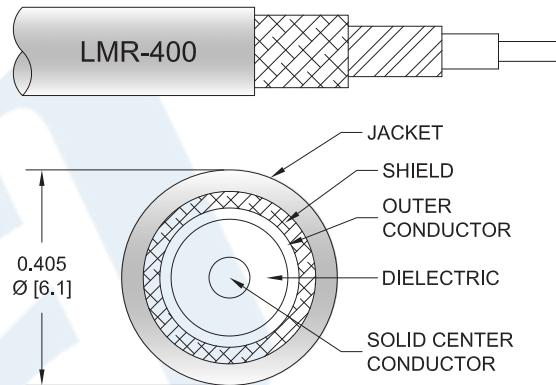
**PE3W01480**

#### Configuration

- Connector 1: N Female Bulkhead
- Connector 2: N Female Bulkhead
- Cable Type: LMR-400

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01480 type N female bulkhead to type N female bulkhead cable using LMR-400 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-400 coax. The PE3W01480 type N female to type N female cable assembly operates to 5.8 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.

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-400 Coax With Times Microwave Components PE3W01480](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
Jacket Spark			8,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.02	0.028	0.041	0.068	0.108	dB/ft
	0.07	0.09	0.13	0.22	0.35	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.1 * \sqrt{f_{ghz}}$  per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.407 lbs [184.61 g]

##### Cable

Cable Type LMR-400  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Aluminum  
 Dielectric Type PE (F)  
 Number of Shields 2  
 Shield Layer 1 Aluminum Tape  
 Shield Layer 2 Tinned Copper Braid  
 Jacket Material PE, Black  
 Jacket Diameter 0.405 in [10.29 mm]

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One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead	N Female Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 $\mu$ in.	50 $\mu$ in.
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 $\mu$ in.	80 $\mu$ in.
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 $\mu$ in.	80 $\mu$ in.

#### 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: [N Female Bulkhead to N Female Bulkhead Low Loss Cable Using LMR-400 Coax With Times Microwave Components PE3W01480](#)

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**PE3W01480**

#### How to Order

Part Number Configuration:

**PE3W01480**

- **xx**

**uu**

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

Example: PE3W01480-12 = 12 inches long cable  
PE3W01480-100cm = 100 cm long cable

N Female Bulkhead to N Female Bulkhead Low Loss Cable Using LMR-400 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.

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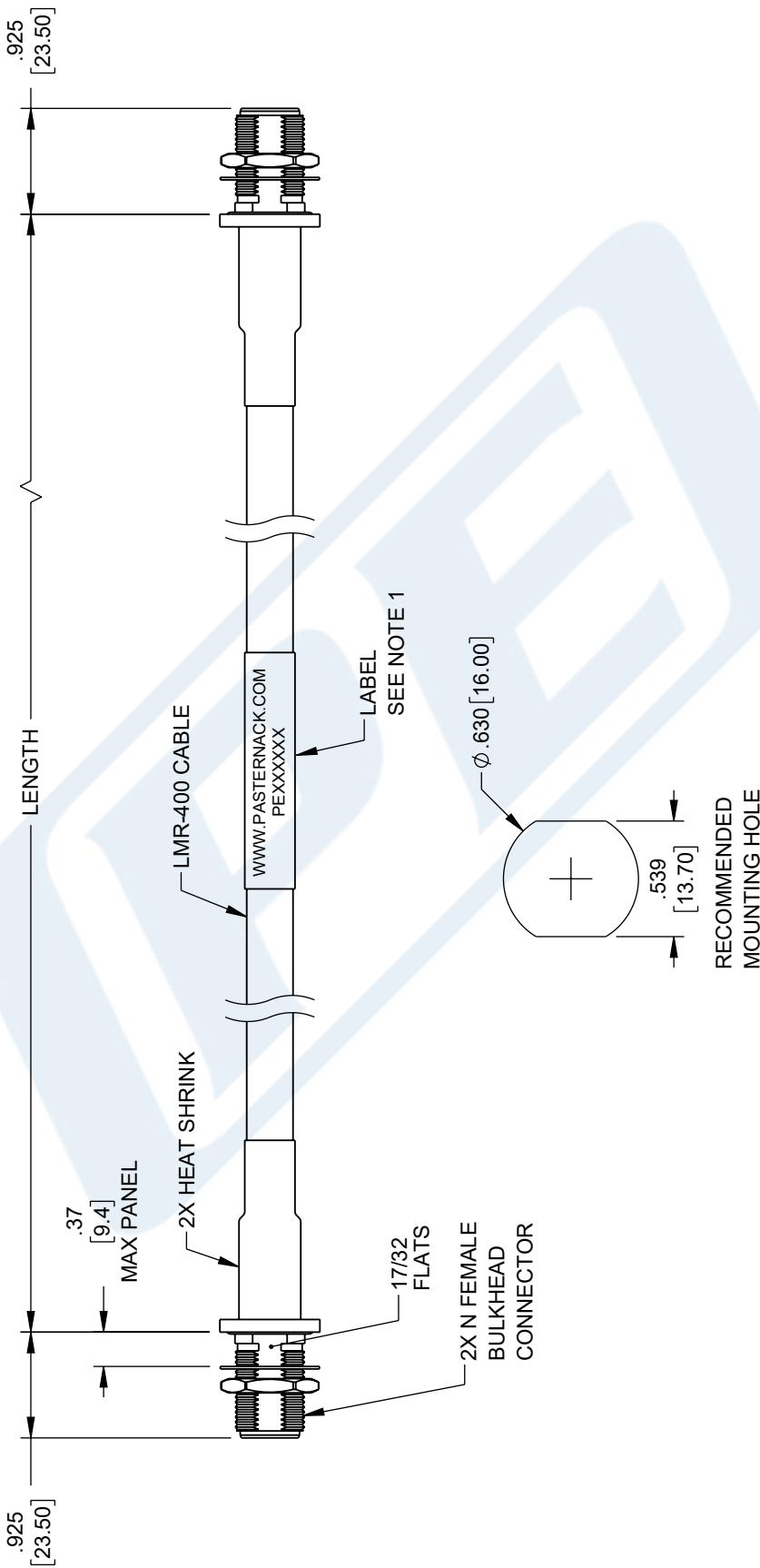
URL: <https://www.pasternack.com/n-female-bulkhead-to-n-female-bulkhead-low-loss-cable-using-lmr-400-pe3w01480-p.aspx>

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.

PE3W01480 CAD Drawing

## N Female Bulkhead to N Female Bulkhead Low Loss Cable Using LMR-400 Coax With Times Microwave Components

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	04/13/2023	BPUCHASKI	AGANWANI



**NOTES:**

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

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OTHERWISE SPECIFIED DIMENSIONS ARE INCHES IN [ ] ARE MILLIMETERS		INTERFEROMETER ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5			INTERFEROMETER ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		SCALE SHEET			SCALE SHEET	
TOLERANCES:		NONE			NONE	
TOLERANCES:		1 OF 1			1 OF 1	
TOLERANCES:		DESCRIPTION			DESCRIPTION	
TOLERANCES:		N Female Bulkhead to N Female Bulkhead Low Loss Cable Using LMR-400 Coax			N Female Bulkhead to N Female Bulkhead Low Loss Cable Using LMR-400 Coax	
TOLERANCES:		Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.806.727.8376   1.949.261.1920			Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.806.727.8376   1.949.261.1920	
TOLERANCES:		ITEM NO.			ITEM NO.	
TOLERANCES:		PE3W01480			PE3W01480	
TOLERANCES:		SIZE			SIZE	
TOLERANCES:		A 53919			A 53919	
TOLERANCES:		DRAWN BY			DRAWN BY	
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TOLERANCES:		A			A	