



## N Female Bulkhead to N Male Right Angle Low Loss Cable Using LMR-400-UF Coax

### TECHNICAL DATA SHEET

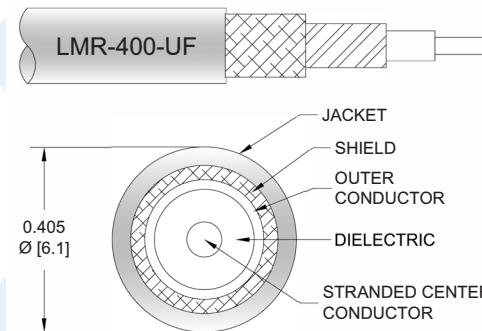
**PE3W05283**

#### Configuration

- Connector 1: N Female Bulkhead
- Connector 2: N Male Right Angle
- Cable Type: LMR-400-UF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- TPE Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05283 type N female bulkhead to type N male right angle cable using LMR-400-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 male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3W05283 type N female to type N male cable assembly operates to 6 GHz. The right angle type N interface on the LMR-400-UF cable allows for easier connections in tight spaces. 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 Male Right Angle Low Loss Cable Using LMR-400-UF Coax PE3W05283](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	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		1.07 [3.51]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
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	
PE3W05283	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.03	0.05	0.08	0.13	dB/ft	
			0.07	0.1	0.17	0.27	0.43	dB/m	
PE3W05283-12	12 inch	Insertion Loss (Typ.)	0.32	0.33	0.35	0.38	0.43	dB	0.286
PE3W05283-36	36 inch	Insertion Loss (Typ.)	0.36	0.39	0.45	0.54	0.69	dB	0.46
PE3W05283-60	60 inch	Insertion Loss (Typ.)	0.4	0.45	0.55	0.7	0.95	dB	0.634
PE3W05283-120	120 inch	Insertion Loss (Typ.)	0.5	0.6	0.8	1.1	1.6	dB	1.069
PE3W05283-300	300 inch	Insertion Loss (Typ.)	0.8	1.05	1.55	2.3	3.55	dB	2.374

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:	0.15 dB
Loss due to Connector 2:	0.15 dB
Base Weight:	0.286 pounds
Additional Weight per Inch:	0.00725 pounds

#### Mechanical Specifications

##### Cable Assembly

Weight	0.286 lbs [129.73 g]
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#### Cable

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

One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.38 lbs-ft [0.52 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead Threaded	N Male Right Angle Threaded
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +85 deg C

#### Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

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#### How to Order

Part Number Configuration:

**PE3W05283**- **xx****uu**

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

Example: PE3W05283-12 = 12 inches long cable  
PE3W05283-100cm = 100 cm long cable

N Female Bulkhead to N Male Right Angle Low Loss Cable Using LMR-400-UF 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/n-female-bulkhead-to-n-male-low-loss-cable-using-lmr-400-uf-pe3w05283-p.aspx>

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# PE3W05283 CAD Drawing

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