

# N Male Right Angle to N Female Bulkhead Cable 100 cm Length Using LMR-240-UF Coax



#### **RF Cable Assemblies Technical Data Sheet**

#### PE3W06441-100CM

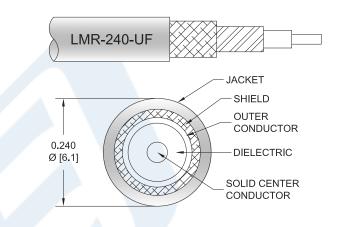
## Configuration

Connector 1: N Male Right AngleConnector 2: N Female Bulkhead

Cable Type: LMR-240-UF

#### **Features**

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- · Double Shielded
- TPE Jacket



## **Applications**

· General Purpose

· Laboratory Use

#### Description

Pasternack's PE3W06441-100CM type N male right angle to type N female bulkhead 100 cm cable using LMR-240-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 male to female gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W06441-100CM type N male to type N female cable assembly operates to 3 GHz. The right angle type N interface on the LMR-240-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 Male Right Angle to N Female Bulkhead Cable 100 cm Length Using LMR-240-UF Coax PE3W06441-100CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ohms/1000ft [Ohms/
Km]				
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/
Km]				
Jacket Spark			5,000	Vrms

## Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.35	0.42	0.52	0.71	0.76	dB

**Electrical Specification Notes:** 

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connectro loss.

#### **Mechanical Specifications**

#### Cable Assembly

 Length\*
 39.37 in [100 cm]

 Diameter
 0.87 in [22.1 mm]

#### Cable

Cable TypeLMR-240-UFImpedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopperDielectric TypePE (F)Number of Shields2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

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Jacket MaterialTPE, BlackJacket Diameter0.24 in [6.1 mm]

One Time Minimum Bend Radius0.75 in [19.05 mm]Repeated Minimum Bend Radius2.5 in [63.5 mm]Bending Moment0.13 lbs-ft [0.18 N-m]Flat Plate Crush13 lbs/in [0.23 Kg/mm]Tensile Strength80 lbs [36.29 Kg]

#### Connectors

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

Mechanical Specification Notes:

#### **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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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.



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## PE3W06441-100CM

#### **How to Order**



Example: PE3W06441-12 = 12 inches long cable PE3W06441-100cm = 100 cm long cable

N Male Right Angle to N Female Bulkhead Cable 100 cm Length Using LMR-240-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-male-n-female-lmr240uf-cable-assembly-pe3w06441-100cm-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.

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PE3W06441-100CM CAD Drawing
N Male Right Angle to N Female Bulkhead Cable 100 cm Length Using LMR-240-UF Coax

