



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

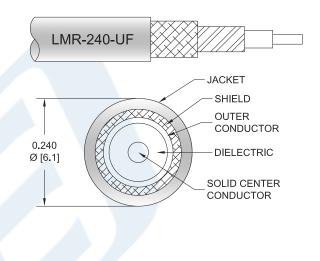
## PE3W06441-50CM

### Configuration

- Connector 1: N Male Right Angle
- Connector 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 PE3W06441-50CM type N male right angle to type N female bulkhead 50 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 PE3W06441-50CM 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 50 cm Length Using LMR-240-UF Coax PE3W06441-50CM

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





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### PE3W06441-50CM

#### **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.)	0.28	0.31	0.36	0.46	0.48	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\* Diameter

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 19.68 in [499.87 mm] 0.87 in [22.1 mm]

LMR-240-UF 50 Ohms Stranded Copper PE (F) 2 Aluminum Tape Tinned Copper Braid

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Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength TPE, Black 0.24 in [6.1 mm]

0.75 in [19.05 mm] 2.5 in [63.5 mm] 0.13 lbs-ft [0.18 N-m] 13 lbs/in [0.23 Kg/mm] 80 lbs [36.29 Kg]

#### Connectors

Description	Connector 1	Connector 2 N Female Bulkhead	
Туре	N Male Right Angle		
Specification			
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:

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

#### **Environmental Specifications**

**Temperature** Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

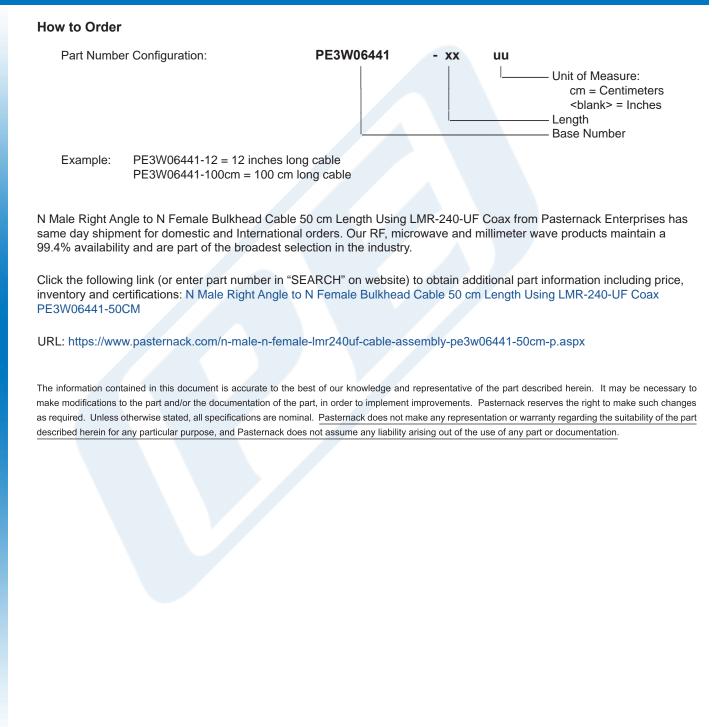
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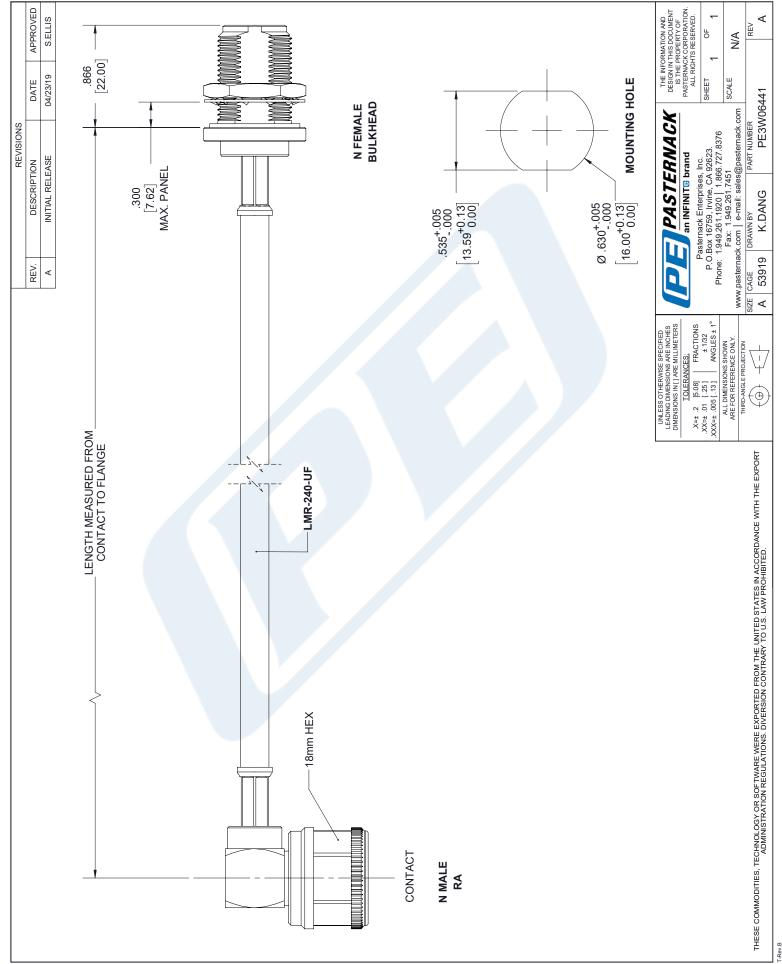
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PE3W06441-50CM CAD Drawing N Male Right Angle to N Female Bulkhead Cable 50 cm Length Using LMR-240-UF Coax



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