

N Male Right Angle to N Female Bulkhead Cable
24 Inch Length Using LMR-240-UF Coax



RF Cable Assemblies Technical Data Sheet

PE3W06441-24

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

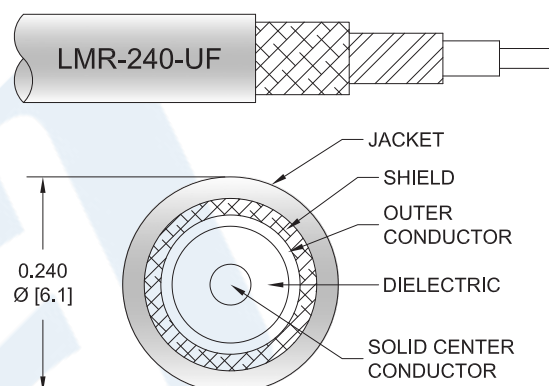
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06441-24 type N male right angle to type N female bulkhead 24 inch 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 PE3W06441-24 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 24 Inch Length Using LMR-240-UF Coax PE3W06441-24](#)



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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 Km]		4.28 [14.04]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor Km]		3.89 [12.76]		Ohms/1000ft [Ohms/
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.)	0.3	0.34	0.39	0.51	0.54	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 connecto loss.

Mechanical Specifications

Cable Assembly

Length*	24 in [609.6 mm]
Diameter	0.87 in [22.1 mm]

Cable

Cable Type	LMR-240-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

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Jacket Material	TPE, Black
Jacket Diameter	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.13 lbs-ft [0.18 N-m]
Flat Plate Crush	13 lbs/in [0.23 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Female Bulkhead
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:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, 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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How to Order

Part Number Configuration:

PE3W06441

- **xx**

uu

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

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

N Male Right Angle to N Female Bulkhead Cable 24 Inch 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-pe3w06441-24-p.aspx>

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N Male Right Angle to N Female Bulkhead Cable 24 Inch Length Using LMR-240-UF Coax

Technical drawing of an LMR-240-UF cable assembly. The drawing shows a side view of the cable with a break in the middle, indicating a long length. The cable is terminated with an N Male RA connector on the left and an N Female Bulkhead connector on the right. The N Male RA connector has a contact length of .866 [22.00] and a maximum panel dimension of .300 [7.62]. The N Female Bulkhead connector has a contact length of .535^{+0.005}_{-.000} [13.59^{+0.13}_{0.00}] and a mounting hole diameter of Ø .630^{+0.005}_{-.000} [16.00^{+0.13}_{0.00}]. The cable is labeled LMR-240-UF and has an 18mm hex flange. The drawing also includes a detail of the mounting hole.

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