

N Male to N Male Low Loss Cable Using LMR-240-UF Coax



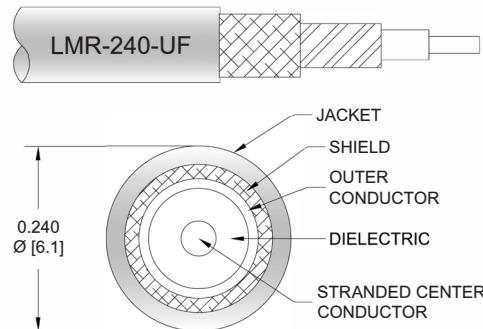
PE3W04426

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-240-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04426 type N male to type N male 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 male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W04426 type N male to type N male cable assembly operates to 6 GHz. 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
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]

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Electrical Specifications

Description	Minimum	Typical				Maximum	Units
Jacket Spark					5,000		Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3W04426	Custom Lengths Available	Insertion Loss (Typ.)	0.046	0.066	0.095	0.155	0.244	dB/ft	
			0.16	0.22	0.32	0.51	0.81	dB/m	
PE3W04426-12	12 in	Insertion Loss (Typ.)	0.25	0.27	0.3	0.36	0.45	dB	0.188
PE3W04426-24	24 in	Insertion Loss (Typ.)	0.3	0.34	0.39	0.51	0.69	dB	0.221
PE3W04426-36	36 in	Insertion Loss (Typ.)	0.34	0.4	0.49	0.67	0.94	dB	0.253
PE3W04426-60	60 in	Insertion Loss (Typ.)	0.43	0.53	0.68	0.98	1.42	dB	0.317
PE3W04426-300	300 in	Insertion Loss (Typ.)	1.35	1.85	2.58	4.08	6.3	dB	0.957

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: 0.1 dB
Loss due to Connector 2: 0.1 dB
Base Weight: 0.188 pounds
Additional Weight per Inch: 0.00267 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.188 lbs [85.28 g]

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
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]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

Compliance Certifications

(see [product page](#) for current document)

Plotted and Other Data

Notes:

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**PE3W04426****Typical Performance Data****How to Order**

Part Number Configuration:

PE3W04426 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3W04426-12 = 12 inches long cable
PE3W04426-100cm = 100 cm long cable

N Male to N Male Low Loss Cable 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.

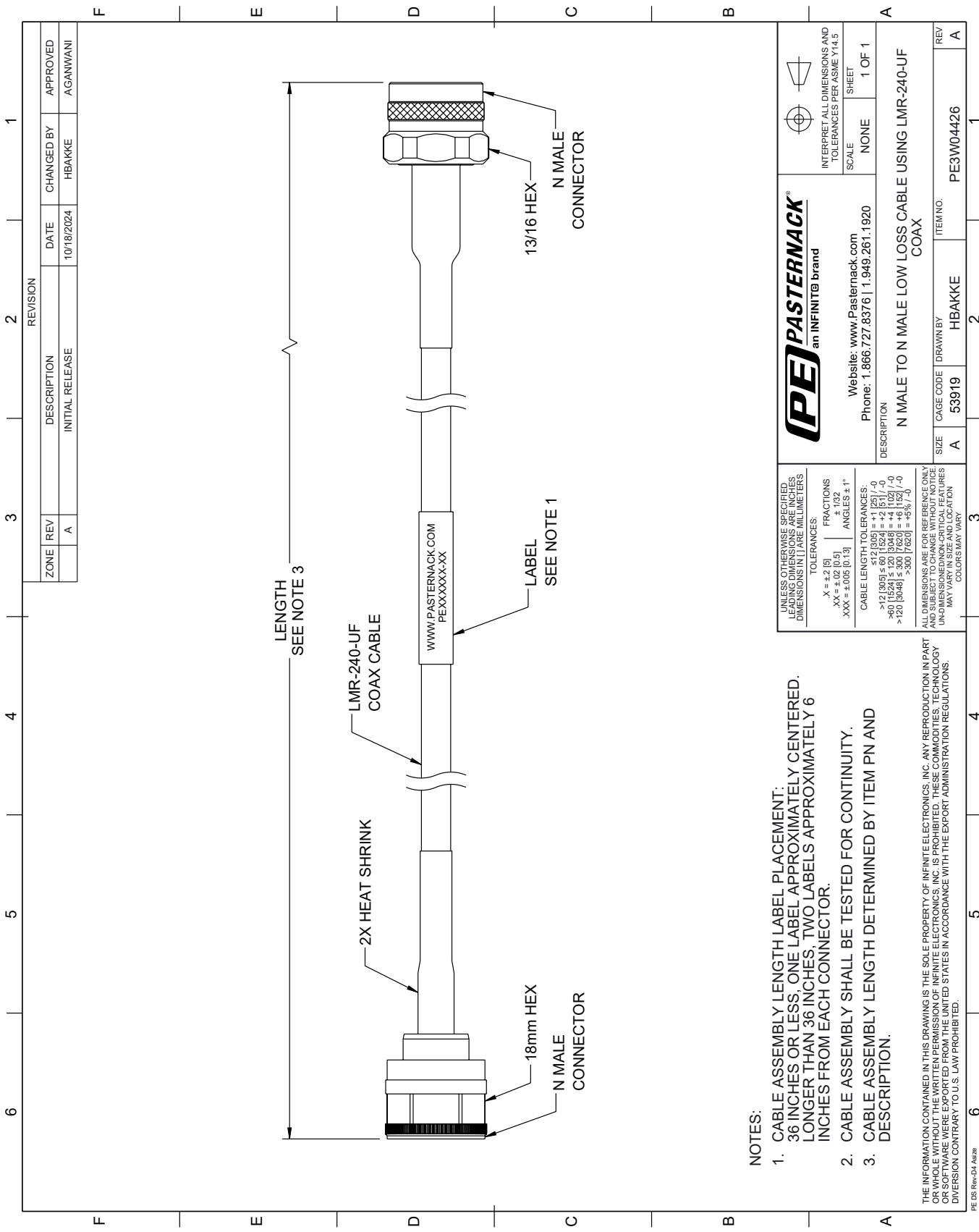
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Low Loss Cable Using LMR-240-UF Coax PE3W04426](#)

URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-lmr-240-uf-pe3w04426-p.aspx>

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PE3W04426 CAD Drawing

N Male to N Male Low Loss Cable Using LMR-240-UF Coax



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 ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND
DESCRIPTION.

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 $XXX = +.005$ [0.13]
ANGLES $\pm 1^\circ$

WEBSITE: www.Pasternack.com
PHONE: 1.866.727.3376 | 1.949.261.1920

DESCRIPTION
N MALE TO N MALE LOW LOSS CABLE USING LMR-240-UF
COAX

PASTERNACK
an INFINITE[®] brand
INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5
SCALE
NONE
SHEET
1 OF 1

PE DS Rev-D4 As26
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