



N Male to SMA Male Right Angle Cable 100 cm  
Length Using LMR-240-UF Coax

RF Cable Assemblies Technical Data Sheet

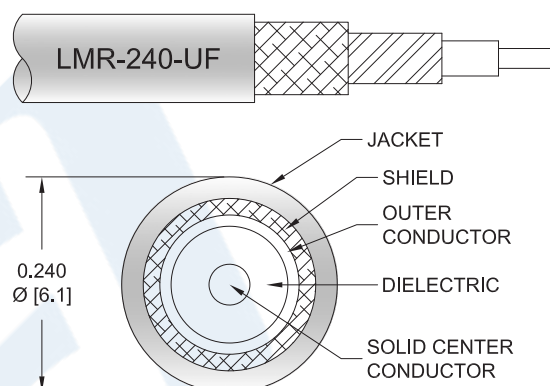
PE3W06417-100CM

**Configuration**

- Connector 1: N Male
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-240-UF

**Features**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W06417-100CM type N male to SMA male right angle 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W06417-100CM type N male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interface on the LMR-240-UF cable allows for easier connections in tight spaces. 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 to SMA Male Right Angle Cable 100 cm Length Using LMR-240-UF Coax PE3W06417-100CM](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	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	5.8	GHz
Insertion Loss (Max.)	0.52	0.62	0.76	0.94	1.1	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in the assembly. The Insertion Loss includes an estimated insertion loss of 0.3ddb of connector loss.

#### Mechanical Specifications

##### Cable Assembly

Length*	39.37 in [100 cm]
Diameter	0.83 in [21.08 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	SMA 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, Gold
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Gold
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

**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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PE3W06417-100CM

#### How to Order

Part Number Configuration:

**PE3W06417**

- **xx**

**uu**

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

Example: PE3W06417-12 = 12 inches long cable  
PE3W06417-100cm = 100 cm long cable

N Male to SMA Male Right Angle 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.

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 SMA Male Right Angle Cable 100 cm Length Using LMR-240-UF Coax PE3W06417-100CM](#)

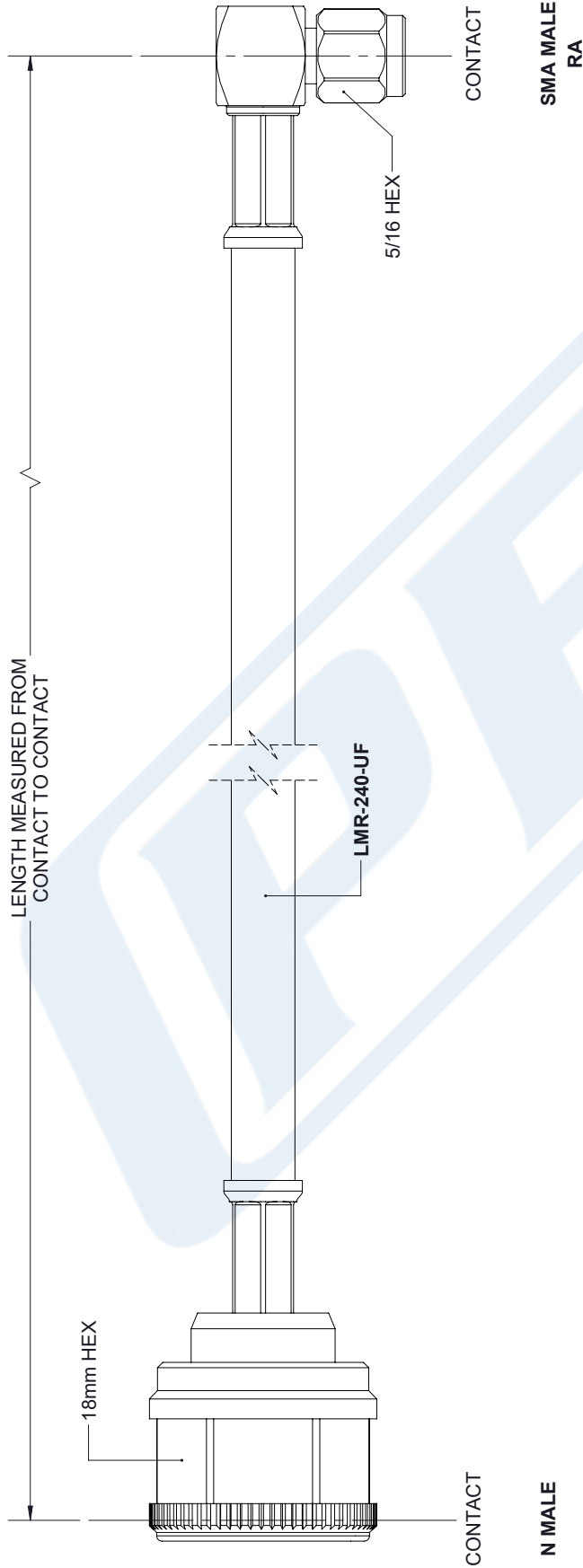
URL: <https://www.pasternack.com/n-male-sma-male-lmr240uf-cable-assembly-pe3w06417-100cm-p.aspx>

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# PE3W06417-100CM CAD Drawing

N Male to SMA Male Right Angle Cable 100 cm Length Using LMR-240-UF Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS			
TOLERANCES:			
X±.2	[5.08]	FRACTIONS	
.XX±.01	[.25]		±.132
.XXX±.005	[.13]	ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
THIRD-ANGLE PROJECTION			

<b>PE PASTERNAK</b> an INFINITO brand		Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com   e-mail: sales@pasternack.com	
SIZE	CAGE	DRAWN BY	PART NUMBER
A	53919	K.DANG	PE3W06417
			REV
			A

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SCALE	N/A		

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