



## N Male to N Male Low Loss Cable Using LMR-240-UF Coax With Times Microwave Components , LF Solder

### RF Cable Assemblies Technical Data Sheet

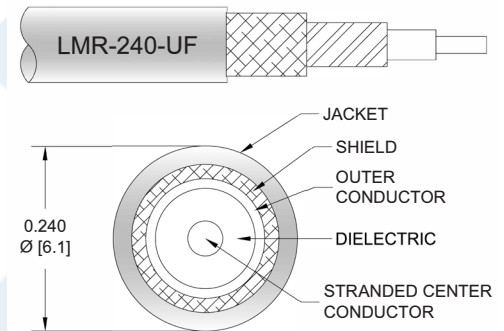
**PE3C1737LF**

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- 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 PE3C1737LF 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 PE3C1737LF type N male to type N male cable assembly operates to 5.8 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.

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 With Times Microwave Components , LF Solder PE3C1737LF](#)



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**PE3C1737LF**

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
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 (Typ.)	0.046	0.066	0.095	0.155	0.244	dB/ft
	0.15	0.22	0.31	0.51	0.8	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.204 lbs [92.53 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]

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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	N Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
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**

**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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**PE3C1737LF**

**How to Order**

Part Number Configuration:

**PE3C1737LF - xx uu**



Example: PE3C1737LF-12 = 12 inches long cable  
PE3C1737LF-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using LMR-240-UF Coax With Times Microwave Components , LF Solder 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.

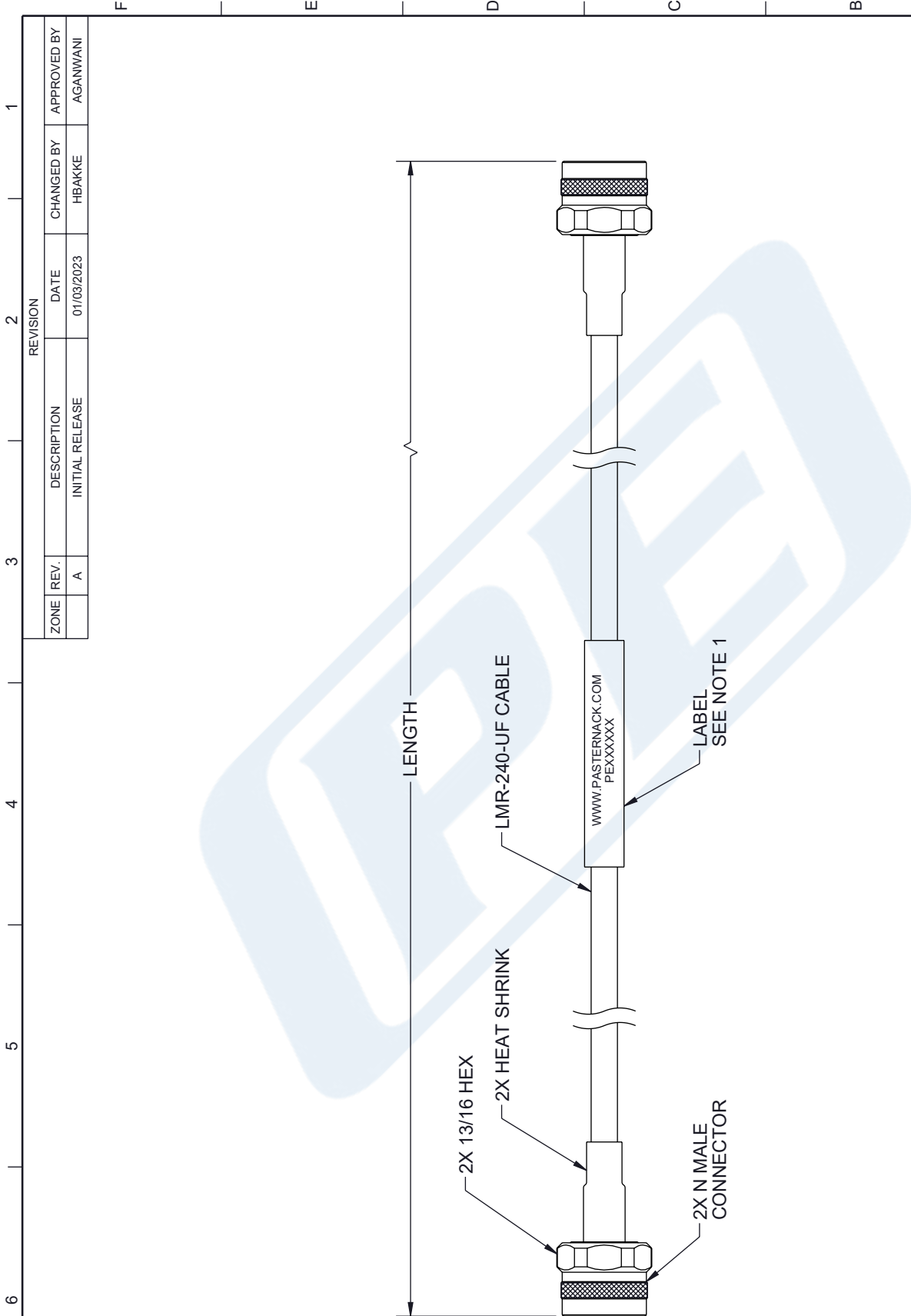
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URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-lmr-240-uf-lf-solder-pe3c1737lf-p.aspx>

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.

# PE3C1737LF CAD Drawing

## N Male to N Male Low Loss Cable Using LMR-240-UF Coax With Times Microwave Components , LF Solder



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:  X = ±.2 [ .5 ]    FRACTIONS ± 1/32  XX = ±.02 [ .5 ]    ANGLES ± 1°  .XXX = ±.005 [ .13 ]</p> <p>CABLE LENGTH TOLERANCES:  &gt;12 [305] = +1 [25] / -0  &gt;12 [305] ≤ 60 [1524] = -2 [51] / -0  &gt;60 [1524] ≤ 120 [3048] = +4 [102] / -0  &gt;120 [3048] ≤ 300 [7620] = +6 [152] / -0  &gt;300 [7620] = +5% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE</p>	<p><b>PE PASTERNAK</b> an INFINITO brand</p> <p>Website: <a href="http://www.Pastermack.com">www.Pastermack.com</a>  Phone: 1.866.727.8376   1.949.261.1920</p> <p>DESCRIPTION  <b>N Male to N Male Low Loss Cable Using LMR-240-UF Coax , LF Solder</b></p>	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE NONE</p> <p>SHEET 1 OF 1</p>
<p>ZONE REV. A</p> <p>DESCRIPTION INITIAL RELEASE</p> <p>DATE 01/03/2023</p> <p>CHANGED BY HBAKKE</p> <p>APPROVED BY AGANWANI</p>	<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY HBAKKE</p> <p>ITEM NO. PE3C1737LF</p>	<p>REV A</p>

**NOTES:**

- 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.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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