

N Male to QMA Male Right Angle Cable  
48 Inch Using LMR-240-UF Coax



RF Cable Assemblies Technical Data Sheet

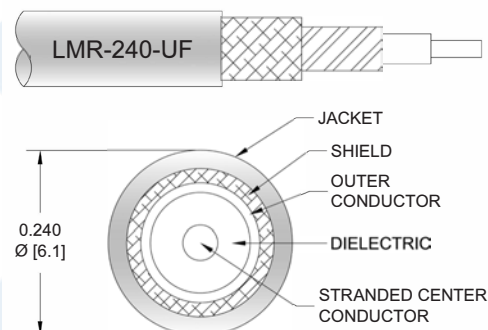
PE3W08119-48

**Configuration**

- Connector 1: N Male
- Connector 2: QMA 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 PE3W08119-48 type N male to QMA male right angle 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 QMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W08119-48 type N male to QMA male cable assembly operates to 5.8 GHz. The right angle QMA 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 QMA Male Right Angle Cable 48 Inch Using LMR-240-UF Coax PE3W08119-48](#)



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#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 5.8     | GHz             |
| VSWR                          |         |              | 1.5:1   |                 |
| 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 (Max.) | 0.4  | 0.44 | 0.5  | 0.63 | 0.82 | dB    |
|                       | 1.31 | 1.44 | 1.64 | 2.07 | 2.69 |       |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1 dB per N male connector and 0.2 dB per QMA male right angle connector.

#### Mechanical Specifications

##### Cable Assembly

##### 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]    |

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|                              |                        |
|------------------------------|------------------------|
| 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                 | QMA Male Right Angle   |
| Specification                         | MIL-STD-348            |                        |
| Impedance                             | 50 Ohms                | 50 Ohms                |
| Contact Material and Plating          | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification         | ASTM-B488              |                        |
| Dielectric Type                       | Teflon                 | PTFE                   |
| Outer Conductor Material and Plating  | Brass, Tri-Metal       | Brass, Nickel          |
| Outer Conductor Plating Specification | QQ-N-290               |                        |
| Body Material and Plating             | Brass, Tri-Metal       | Brass, Nickel          |
| Body Plating Specification            | QQ-N-290               |                        |
| Coupling Nut Material and Plating     | Brass, Tri-Metal       |                        |
| Coupling Nut Plating Specification    | QQ-N-290               |                        |
| Hex Size                              | 13/16 inch             |                        |
| Seal Gasket Material                  | Silicone               |                        |

#### Environmental Specifications

##### Temperature

Operating Range -40 to +185 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:

**PE3W08119**

- **xx**

**uu**

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

Example: PE3W08119-12 = 12 inches long cable  
PE3W08119-100cm = 100 cm long cable

N Male to QMA Male Right Angle Cable 48 Inch 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.

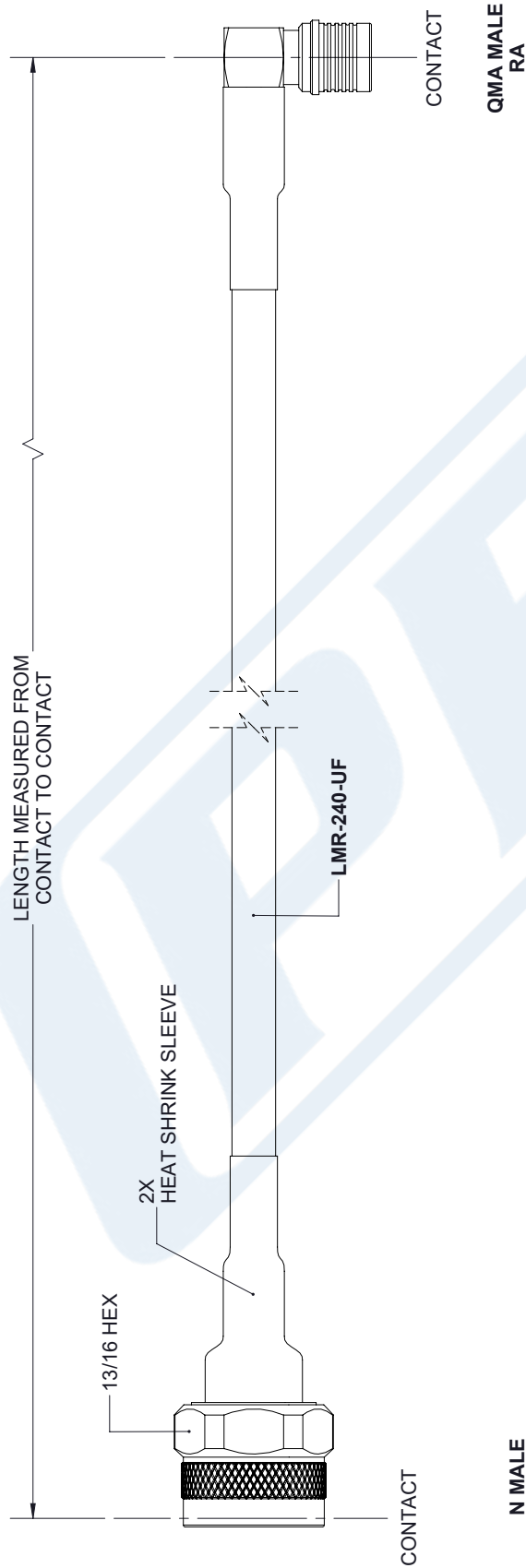
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URL: <https://www.pasternack.com/n-male-qma-male-lmr240uf-cable-assembly-pe3w08119-48-p.aspx>

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.

# PE3W08119-48 CAD Drawing

N Male to QMA Male Right Angle Cable 48 Inch Using LMR-240-UF Coax



| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 1/23/2020 | SELLIS   |

|                                                                                                                                                                                                                                                                                                                                                                                                      |  |                 |  |                                                                                                                                                                                                                                                                       |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS                                                                                                                                                                                                                                                                                                     |  |                 |  | THIRD-ANGLE PROJECTION                                                                                                                                                                                                                                                |  |  |  |
| TOLERANCES:<br><br>X = ± .2 [ .08 ]      FRACTIONS<br>.XX = ± .02 [ .51 ]      ± 1/32<br>XXX = ± .005 [ .13 ]      ANGLES ± 1°<br><br>CABLE LENGTH (L) TOLERANCES:<br><br>L ≤ 12 [ 305 ] = +1 [ 25 ] / -0<br>12 [ 305 ] < L ≤ 60 [ 1524 ] = +2 [ 51 ] / -0<br>60 [ 1524 ] < L ≤ 120 [ 3048 ] = +4 [ 102 ] / -0<br>120 [ 3048 ] < L ≤ 300 [ 7620 ] = +6 [ 152 ] / -0<br>300 [ 7620 ] < L = +5% L / -0 |  |                 |  |  <div>THE INFORMATION AND<br/>DESIGN IN THIS DOCUMENT<br/>IS THE PROPERTY OF<br/>PASTERNAK CORPORATION<br/>ALL RIGHTS RESERVED.</div> <div>SHEET 1 OF 1</div> <div>SCALE N/A</div> |  |  |  |
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| Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>Website: www.pasternack.com<br>E-mail: sales@pasternack.com                                                                                                                                                                                                    |  |                 |  | ITEM NO. PE3W08119                                                                                                                                                                                                                                                    |  |  |  |
| SIZE A                                                                                                                                                                                                                                                                                                                                                                                               |  | CAGE CODE 53919 |  | DRAWN BY K.DANG                                                                                                                                                                                                                                                       |  |  |  |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                                                                                                                                                                                                                                                                                                                      |  |                 |  |                                                                                                                                                                                                                                                                       |  |  |  |

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