



## N Male to N Male With Times Connectors Cable 36 Inch Length Using LMR-240 Coax

### RF Cable Assemblies Technical Data Sheet

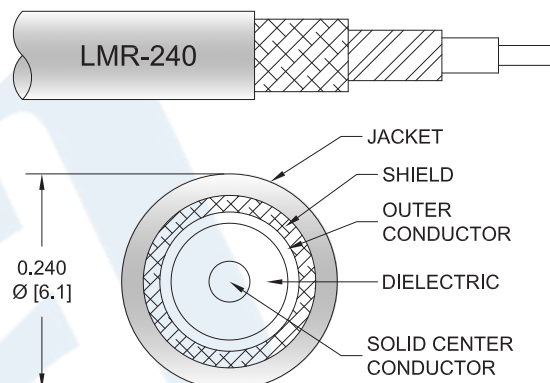
**PE3C0101-36**

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-240

#### Features

- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C0101-36 type N male to type N male 36 inch cable using LMR-240 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 coax. 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           |
|-------------------------------|---------|--------------|---------|-----------------|
| 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 |         | 3.2 [10.5]   |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 3.89 [12.76] |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |              | 5,000   | Vrms            |

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 With Times Connectors Cable 36 Inch Length Using LMR-240 Coax PE3C0101-36](#)



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#### Mechanical Specifications

##### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 36 in [914.4 mm]   |
| Diameter | 0.91 in [23.11 mm] |
| Weight   | 0.6 lbs [272.16 g] |

##### Cable

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-240                |
| Impedance                            | 50 Ohms                |
| Inner Conductor Type                 | Solid                  |
| 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                      | PE, 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                       | 0.25 lbs-ft [0.34 N-m] |
| Flat Plate Crush                     | 20 lbs/in [0.36 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          | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification         | MIL-G-45204            | MIL-G-45204            |
| Dielectric Type                       | PTFE                   | PTFE                   |
| Outer Conductor Material and Plating  | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Outer Conductor Plating Specification | QQ-N-290               | QQ-N-290               |
| Body Material and Plating             | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Body Plating Specification            | QQ-N-290               | QQ-N-290               |
| Coupling Nut Material and Plating     | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Coupling Nut Plating Specification    | QQ-N-290               | QQ-N-290               |

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**RF Cable Assemblies Technical Data Sheet**

**PE3C0101-36**

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

**How to Order**

Part Number Configuration:

**PE3C0101**

**- xx**

**uu**

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

Example: PE3C0101-12 = 12 inches long cable  
PE3C0101-100cm = 100 cm long cable

N Male to N Male With Times Connectors Cable 36 Inch Length Using LMR-240 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 With Times Connectors Cable 36 Inch Length Using LMR-240 Coax PE3C0101-36](#)

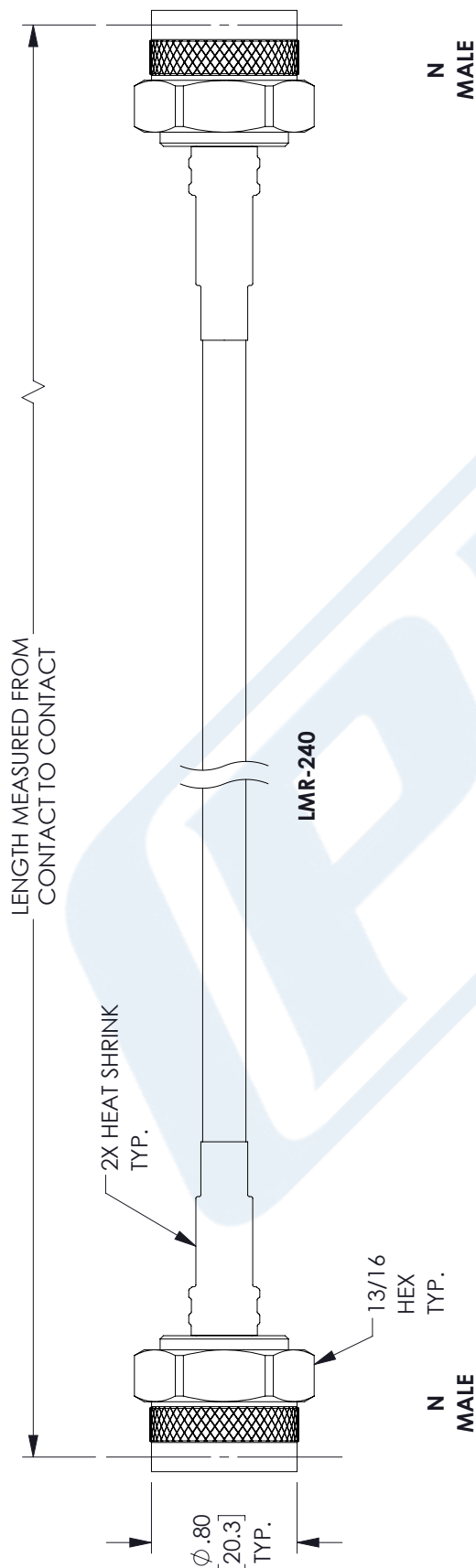
URL: <https://www.pasternack.com/n-male-n-male-lmr240-cable-assembly-pe3c0101-36-p.aspx>

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.

# PE3C0101-36 CAD Drawing

N Male to N Male With Times Connectors Cable 36 Inch Length Using LMR-240 Coax

| REVISIONS |                    |           |          |
|-----------|--------------------|-----------|----------|
| REV.      | DESCRIPTION        | DATE      | APPROVED |
| B         | UPDATE HEAT SHRINK | 7/15/2021 | MDING    |



| How To Order                                                                                                                                                      |                                                                                 | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------|------------------|-------------|-----------------------|
| <b>Part Number Configuration</b><br>PE3 [ZZZ] [YY] - [XX] [UU]<br>00 - 99999<br>LF = RoHS Compliant<br>< Blank > = Standard<br>Note: LF applies only to RF cables | <b>Examples</b><br>PE3000LF-100<br>PE3000-100<br>PE3000LF-100CM<br>PE3000-100CM | -12         | 12"              | -25CM       | 25Cm                  |
|                                                                                                                                                                   |                                                                                 | -24         | 24"              | -50CM       | 50Cm                  |
|                                                                                                                                                                   |                                                                                 | -36         | 36"              | -75CM       | 75Cm                  |
|                                                                                                                                                                   |                                                                                 | -48         | 48"              | -100CM      | 100Cm                 |
|                                                                                                                                                                   |                                                                                 | -60         | 60"              | -125CM      | 125Cm                 |
|                                                                                                                                                                   |                                                                                 | -XX         | Custom Length    | -xxCM       | Custom Length         |

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ± .2 [5.08]  
 .XX = ± .02 [5.1]  
 .XXX = ± .005 [13]  
 ANGLES ± 1°  
 CABLE LENGTH (L) TOLERANCES:  
 L ≤ 12 [305] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +4 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +6 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +5% / -0  
 ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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SIZE A

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ITEM NO. PE3C0101

REV B