



N Male Right Angle to Reverse Polarity TNC Male Cable
36 Inch Length Using LMR-240-UF Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W05324/HS-36

Configuration

- Connector 1: N Male Right Angle
- Connector 2: TNC Male Reverse Polarity
- Cable Type: LMR-240-UF

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket

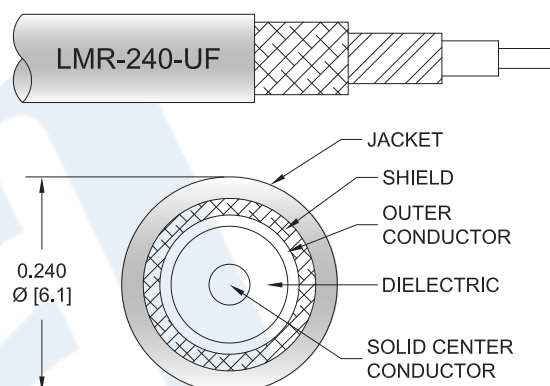
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05324/HS-36 type N male right angle to reverse polarity TNC male 36 inch 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 reverse polarity TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W05324/HS-36 type N male to reverse polarity TNC male cable assembly operates to 3 GHz. The right angle type N 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 Right Angle to Reverse Polarity TNC Male Cable 36 Inch Length Using LMR-240-UF Coax with HeatShrink PE3W05324/HS-36](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|--------------|---------|--------------------|
| Frequency Range | DC | | 3 | 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 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 | 3 | GHz |
| Insertion Loss (Max.) | 0.44 | 0.47 | 0.52 | 0.77 | 0.81 | dB |

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

| | |
|----------|--------------------|
| Length* | 36 in [914.4 mm] |
| 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 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to Reverse Polarity TNC Male Cable 36 Inch Length Using LMR-240-UF Coax with HeatShrink PE3W05324/HS-36](#)



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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 Right Angle | TNC Male Reverse Polarity |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | | 500 |
| Contact Material and Plating | Brass, Gold | Phosphor Bronze, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Nickel |
| Coupling Nut Material and Plating | | Brass, Nickel |

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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PE3W05324/HS-36

How to Order

Part Number Configuration:

PE3W05324/HS

- xx

uu

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

Example: PE3W05324/HS-12 = 12 inches long cable
PE3W05324/HS-100cm = 100 cm long cable

N Male Right Angle to Reverse Polarity TNC Male Cable 36 Inch Length Using LMR-240-UF Coax with HeatShrink 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.

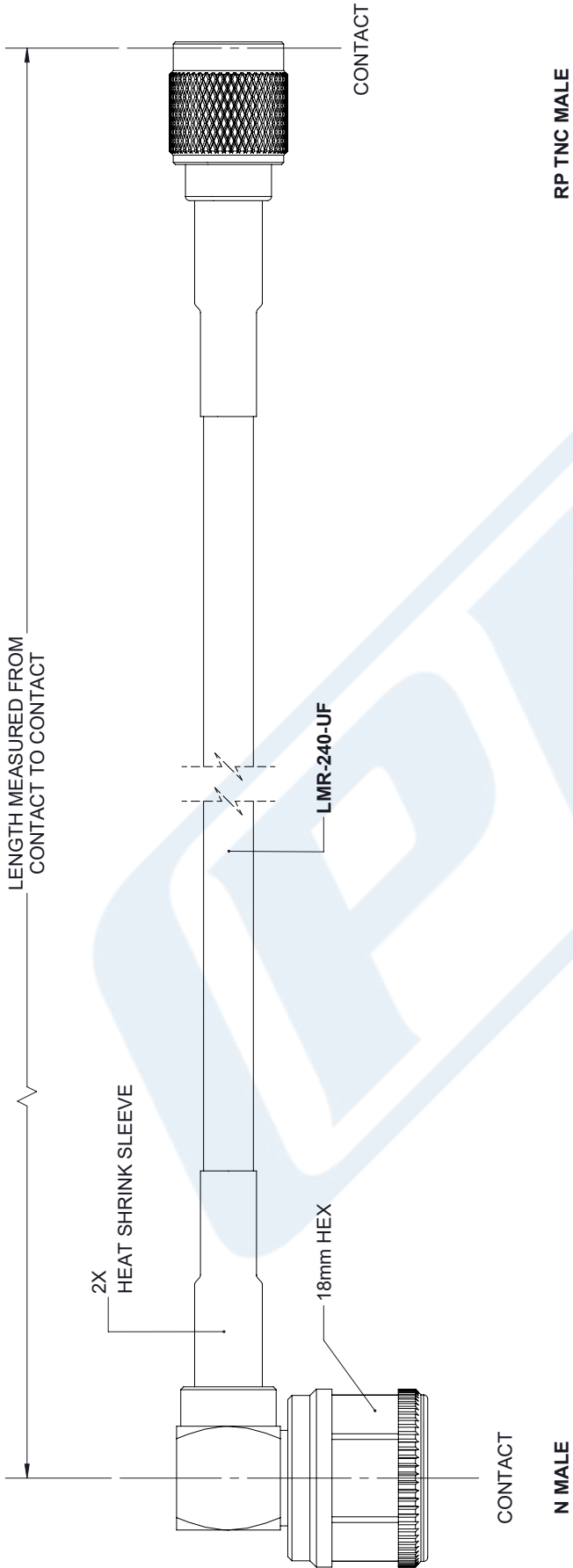
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URL: <https://www.pasternack.com/n-male-tnc-male-lmr240uf-cable-assembly-pe3w05324-hs-36-p.aspx>

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.

PE3W05324/HS-36 CAD Drawing
N Male Right Angle to Reverse Polarity TNC Male Cable 36 Inch
Length Using LMR-240-UF Coax with HeatShrink

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



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

| | |
|---|--------------|
| PE PASTERNAK an INFINITI 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 | A |
| CAGE | 53919 |
| DRAWN BY | K.DANG |
| PART NUMBER | PE3W05324/HS |
| REV | A |

| | |
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| SHEET | 1 OF 1 |
| SCALE | N/A |

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