



## N Male Right Angle to Reverse Polarity TNC Male Low Loss Cable Using LMR-400-UF Coax with HeatShrink

### TECHNICAL DATA SHEET

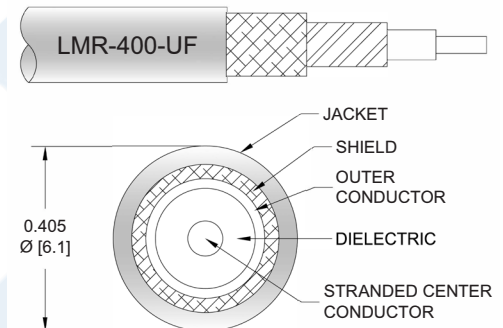
PE3W01867/HS

#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: TNC Male Reverse Polarity
- Cable Type: LMR-400-UF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- TPE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01867/HS type N male right angle to reverse polarity TNC male cable using LMR-400-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-400-UF coax. The PE3W01867/HS type N male to reverse polarity TNC male cable assembly operates to 6 GHz. The right angle type N interface on the LMR-400-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 Low Loss Cable Using LMR-400-UF Coax with HeatShrink PE3W01867/HS](#)



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#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units                            |
|-------------------------------|---------|--------------|---------|----------------------------------|
| Frequency Range               | DC      |              | 6       | GHz                              |
| VSWR                          |         |              | 1.4:1   |                                  |
| Velocity of Propagation       |         | 85           |         | %                                |
| RF Shielding                  | 90      |              |         | dB                               |
| Group Delay                   |         | 1.2 [3.94]   |         | ns/ft [ns/m]                     |
| Capacitance                   |         | 23.9 [78.41] |         | pF/ft [pF/m]                     |
| Inductance                    |         | 0.06 [0.2]   |         | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |         | 1.07 [3.51]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 1.65 [5.41]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |         |              | 8,000   | Vrms                             |

#### Specifications by Frequency

| Part Number      | Length                   | Description           | F1   | F2   | F3   | F4   | F5   | Units | Weight (lbs) |
|------------------|--------------------------|-----------------------|------|------|------|------|------|-------|--------------|
|                  |                          | Frequency             | 250  | 500  | 1000 | 2500 | 6000 | MHz   |              |
| PE3W01867/HS     | Custom Lengths Available | Insertion Loss (Typ.) | 0.02 | 0.03 | 0.05 | 0.08 | 0.13 | dB/ft |              |
|                  |                          |                       | 0.07 | 0.1  | 0.17 | 0.27 | 0.43 | dB/m  |              |
| PE3W01867/HS-12  | 12 inch                  | Insertion Loss (Typ.) | 0.27 | 0.28 | 0.3  | 0.33 | 0.38 | dB    | 0.254        |
| PE3W01867/HS-36  | 36 inch                  | Insertion Loss (Typ.) | 0.31 | 0.34 | 0.4  | 0.49 | 0.64 | dB    | 0.428        |
| PE3W01867/HS-60  | 60 inch                  | Insertion Loss (Typ.) | 0.35 | 0.4  | 0.5  | 0.65 | 0.9  | dB    | 0.602        |
| PE3W01867/HS-120 | 120 inch                 | Insertion Loss (Typ.) | 0.45 | 0.55 | 0.75 | 1.05 | 1.55 | dB    | 1.037        |
| PE3W01867/HS-300 | 300 inch                 | Insertion Loss (Typ.) | 0.75 | 1    | 1.5  | 2.25 | 3.5  | dB    | 2.342        |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

|                             |                |
|-----------------------------|----------------|
| Loss due to Connector 1:    | 0.15 dB        |
| Loss due to Connector 2:    | 0.1 dB         |
| Base Weight:                | 0.254 pounds   |
| Additional Weight per Inch: | 0.00725 pounds |

#### Mechanical Specifications

##### Cable Assembly

Weight 0.254 lbs [115.21 g]

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 Low Loss Cable Using LMR-400-UF Coax with HeatShrink PE3W01867/HS](#)



## N Male Right Angle to Reverse Polarity TNC Male Low Loss Cable Using LMR-400-UF Coax with HeatShrink

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PE3W01867/HS

#### Cable

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-400-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                      | 0.405 in [10.29 mm]    |
| One Time Minimum Bend Radius         | 1 in [25.4 mm]         |
| Repeated Minimum Bend Radius         | 4 in [101.6 mm]        |
| Bending Moment                       | 0.38 lbs-ft [0.52 N-m] |
| Flat Plate Crush                     | 20 lbs/in [0.36 Kg/mm] |
| Tensile Strength                     | 160 lbs [72.57 Kg]     |

#### Connectors

| Description                       | Connector 1                 | Connector 2                        |
|-----------------------------------|-----------------------------|------------------------------------|
| Type                              | N Male Right Angle Threaded | TNC Male Reverse Polarity Threaded |
| Specification                     | MIL-STD-348A                |                                    |
| Impedance                         | 50 Ohms                     | 50 Ohms                            |
| Contact Material and Plating      | Brass, Gold                 | Phosphor Bronze, Gold              |
| Contact Plating Specification     | 30 µin minimum              |                                    |
| Dielectric Type                   | PTFE                        | PTFE                               |
| Body Material and Plating         | Brass, Tri-Metal            | Brass, Nickel                      |
| Coupling Nut Material and Plating | Brass, Tri-Metal            | Brass, Nickel                      |
| Hex Size                          | 18 mm                       |                                    |
| Torque                            | 9 in-lbs [1.02 Nm]          |                                    |

#### Environmental Specifications

##### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
|-----------------|------------------|

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

#### Plotted and Other Data

Notes:

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 Low Loss Cable Using LMR-400-UF Coax with HeatShrink PE3W01867/HS](#)



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### TECHNICAL DATA SHEET

PE3W01867/HS

#### How to Order

Part Number Configuration:

PE3W01867/HS

- xx

uu

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

Example: PE3W01867/HS-12 = 12 inches long cable  
PE3W01867/HS-100cm = 100 cm long cable

N Male Right Angle to Reverse Polarity TNC Male Low Loss Cable Using LMR-400-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-right-angle-to-reverse-polarity-tnc-male-low-loss-cable-using-lmr-400-uf-with-heatshrink-pe3w01867-hs-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.


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NOTES:

1. 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND  
DESCRIPTION.

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|   |           |   |              |  |  |
|---|-----------|---|--------------|--|--|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS  |           |   |              | <b>PE PASTERNAK®</b><br>an INFINITI® brand |  |
| TOLERANCES:   |           | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5  |              |  |  |
| X = +2 [5]<br>XX = +0.02 [0.5]<br>XXX = ±.005 [0.13]  |           | FRACTIONS<br>± 1/32   |              | SCALE                                      |  |
| ANGLES ± °  |           | NONE  |              | SHEET                                      |  |
| CABLE LENGTH TOLERANCES:  |           | 1 OF 1  |              |  |  |
| 512 [305] ± +1 [25] / -0<br>>12 [305] ≤ 60 [1524] = +2 [51] / -0<br>>60 [1524] ≤ 120 [3048] = +4 [102] / -0<br>>120 [3048] ≤ 300 [7620] = +6 [152] / -0<br>>300 [7620] = +5% / -0 |           | Website: www.Pasternack.com<br>Phone: 1.866.727.8376   1.949.261.1920   |              |  |  |
| DESCRIPTION<br>REVERSE POLARITY TNC PLUG TO N MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-400-JF COAX   |           |   |              |  |  |
| SIZE  | CAGE CODE | DRAWN BY  | ITEM NO.     | REV  |  |
| A   | 53919     | KGLEBOVA  | PE3W01867/HS | A  |  |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY<br>AND SUBJECT TO CHANGE WITHOUT NOTICE<br>UN-DIMENSIONED NON-CRITICAL FEATURES<br>MAY VARY IN SIZE AND LOCATION<br>COLORS MAY VARY         |           |   |              |  |  |