



## TNC Male to N Female Low Loss Cable Using LMR-400 Coax In 60 Inch Length

### RF Cable Assemblies Technical Data Sheet

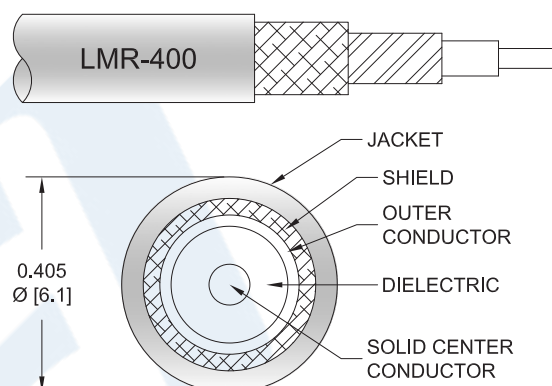
**PE3W11428-60**

#### Configuration

- Connector 1: TNC Male
- Connector 2: N Female
- Cable Type: LMR-400

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W11428-60 TNC male to type N female 60 inch cable using LMR-400 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 TNC to type N cable assembly has a male to female gender configuration with 50 ohm flexible LMR-400 coax. The PE3W11428-60 TNC male to type N female 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: [TNC Male to N Female Low Loss Cable Using LMR-400 Coax In 60 Inch Length PE3W11428-60](#)



## TNC Male to N Female Low Loss Cable Using LMR-400 Coax In 60 Inch Length

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**PE3W11428-60**

#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 5.8     | 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 |         | 1.39 [4.56]  |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 1.65 [5.41]  |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |              | 8,000   | 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.) | 0.2  | 0.29 | 0.41 | 0.66 | 1.03 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector.

#### Mechanical Specifications

##### Cable Assembly

|         |                     |
|---------|---------------------|
| Length* | 60 in [152.4 cm]    |
| Weight  | 0.459 lbs [208.2 g] |

##### Cable

|                                      |                      |
|--------------------------------------|----------------------|
| Cable Type                           | LMR-400              |
| Impedance                            | 50 Ohms              |
| Inner Conductor Type                 | Solid                |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| 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                      | 0.405 in [10.29 mm]  |

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## TNC Male to N Female Low Loss Cable Using LMR-400 Coax In 60 Inch Length

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**PE3W11428-60**

|                              |                        |
|------------------------------|------------------------|
| One Time Minimum Bend Radius | 1 in [25.4 mm]         |
| Repeated Minimum Bend Radius | 4 in [101.6 mm]        |
| Bending Moment               | 0.5 lbs-ft [0.68 N-m]  |
| Flat Plate Crush             | 40 lbs/in [0.71 Kg/mm] |
| Tensile Strength             | 160 lbs [72.57 Kg]     |

#### Connectors

| Description                          | Connector 1            | Connector 2      |
|--------------------------------------|------------------------|------------------|
| Type                                 | TNC Male               | N Female         |
| Specification                        |                        | MIL-STD-348      |
| Impedance                            | 50 Ohms                | 50 Ohms          |
| Mating Cycles                        | 500                    |                  |
| Contact Material and Plating         | Beryllium Copper, Gold | Copper, Gold     |
| Dielectric Type                      | PTFE                   | PTFE             |
| Outer Conductor Material and Plating | Brass, Tri-Metal       |                  |
| Body Material and Plating            | Brass, Tri-Metal       | Brass, Tri-Metal |
| Coupling Nut Material and Plating    | Brass, Tri-Metal       | Brass, Tri-Metal |
| Hex Size                             | 5/8 inch               |                  |
| Torque                               | 4 in-lbs [0.45 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: [TNC Male to N Female Low Loss Cable Using LMR-400 Coax In 60 Inch Length PE3W11428-60](#)



## TNC Male to N Female Low Loss Cable Using LMR-400 Coax In 60 Inch Length

### RF Cable Assemblies Technical Data Sheet

**PE3W11428-60**

#### How to Order

Part Number Configuration:

**PE3W11428**

- **xx**

**uu**

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

Example: PE3W11428-12 = 12 inches long cable  
PE3W11428-100cm = 100 cm long cable

TNC Male to N Female Low Loss Cable Using LMR-400 Coax In 60 Inch Length 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: [TNC Male to N Female Low Loss Cable Using LMR-400 Coax In 60 Inch Length PE3W11428-60](#)

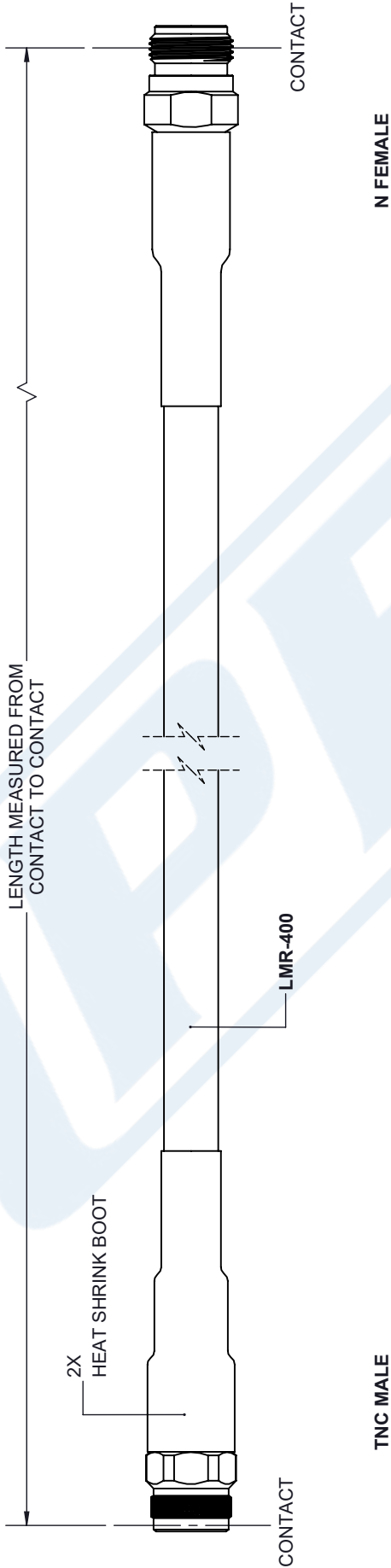
URL: <https://www.pasternack.com/tAc-male-to-A-female-low-loss-cable-60-iAch-leAgth-usiAg-lmr-400-pe3w11428-60-p.aspx>

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.

PE3W11428-60 CAD Drawing

TNC Male to N Female Low Loss Cable Using LMR-400 Coax In 60 Inch Length

| REVISIONS |                 |           |            |
|-----------|-----------------|-----------|------------|
| REV.      | DESCRIPTION     | DATE      | APPROVED   |
| A         | INITIAL RELEASE | 11/4/2021 | A. GANWANI |



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| X = ± .2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [ .008 ]        | FRACTIONS   |  |          |          |           |             |         |        |               |         |             |              |                |                          |                |         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| 12 [305] < L ≤ 60 [1524]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | = +2 [51] / -0  |             |  |          |          |           |             |         |        |               |         |             |              |                |                          |                |         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| 60 [1524] < L ≤ 120 [3048]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | = +4 [102] / -0 |             |  |          |          |           |             |         |        |               |         |             |              |                |                          |                |         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| 120 [3048] < L ≤ 300 [7620]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | = +6 [152] / -0 |             |  |          |          |           |             |         |        |               |         |             |              |                |                          |                |         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THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.