



## N Male to N Male Right Angle Cable 12 Inch Length Using LMR-400 Coax

### RF Cable Assemblies Technical Data Sheet

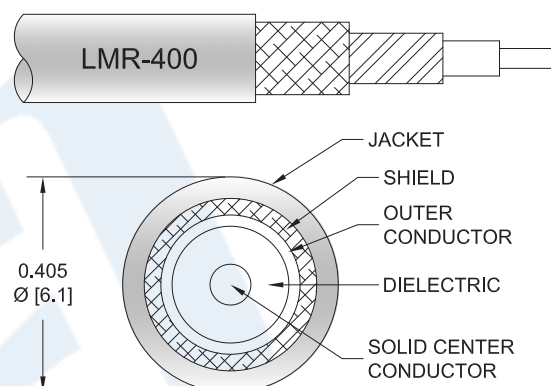
PE3W00430-12

#### Configuration

- Connector 1: N Male
- Connector 2: N Male Right Angle
- 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 PE3W00430-12 type N male to type N male right angle 12 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 type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. The PE3W00430-12 type N male to type N male cable assembly operates to 5.8 GHz. The right angle type N interface on the LMR-400 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 N Male Right Angle Cable 12 Inch Length Using LMR-400 Coax PE3W00430-12](#)



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#### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units                     |
|--------------------------------------|---------|--------------|---------|---------------------------|
| Frequency Range                      | DC      |              | 5.8     | GHz                       |
| VSWR                                 |         |              | 1.5:1   |                           |
| 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<br>Km] |         | 1.39 [4.56]  |         | Ohms/1000ft [Ohms/<br>Km] |
| DC Resistance Outer Conductor<br>Km] |         | 1.65 [5.41]  |         | Ohms/1000ft [Ohms/<br>Km] |
| Jacket Spark                         |         |              | 8,000   | Vrms                      |

#### Specifications by Frequency

| Description           | F1     | F2   | F3   | F4   | F5   | Units |
|-----------------------|--------|------|------|------|------|-------|
| Frequency             | 0.5    | 1    | 2    | 4    | 5.8  | GHz   |
| Insertion Loss (Max.) | 0.34   | 0.35 | 0.36 | 0.39 | 0.41 | dB    |
| VSWR (Max.)           | 0.41:1 |      |      |      |      |       |

#### Electrical Specification Notes:

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

#### Mechanical Specifications

##### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 12 in [304.8 mm]   |
| Diameter | 0.83 in [21.08 mm] |

##### 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                    |

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|                              |                        |
|------------------------------|------------------------|
| Shield Layer 1               | Aluminum Tape          |
| Shield Layer 2               | Tinned Copper Braid    |
| Jacket Material              | PE, 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               | 0.5 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                               | N Male           | N Male Right Angle |
| Specification                      | MIL-STD-348A     | MIL-STD-348A       |
| Impedance                          | 50 Ohms          | 50 Ohms            |
| Contact Material and Plating       | Brass, Silver    | Brass, Gold        |
| Contact Plating Specification      | 70µ in. minimum  | 30µ in. minimum    |
| Dielectric Type                    | Teflon           | Teflon             |
| Body Material and Plating          | Brass, Nickel    | Brass, Tri-Metal   |
| Body Plating Specification         | 100µ in. minimum |                    |
| Coupling Nut Material and Plating  | Brass, Nickel    | Brass, Tri-Metal   |
| Coupling Nut Plating Specification | 100µ in. minimum |                    |
| Hex Size                           |                  | 18 mm              |
| Torque                             |                  | 9 in-lbs [1.02 Nm] |

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

**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 to N Male Right Angle Cable 12 Inch Length Using LMR-400 Coax PE3W00430-12](#)



## N Male to N Male Right Angle Cable 12 Inch Length Using LMR-400 Coax

### RF Cable Assemblies Technical Data Sheet

PE3W00430-12

#### How to Order

Part Number Configuration:

**PE3W00430**

- **xx**

**uu**

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

Example: PE3W00430-12 = 12 inches long cable  
PE3W00430-100cm = 100 cm long cable

N Male to N Male Right Angle Cable 12 Inch Length Using LMR-400 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 Right Angle Cable 12 Inch Length Using LMR-400 Coax PE3W00430-12](https://www.pasternack.com/n-male-n-male-lmr400-cable-assembly-pe3w00430-12-p.aspx)

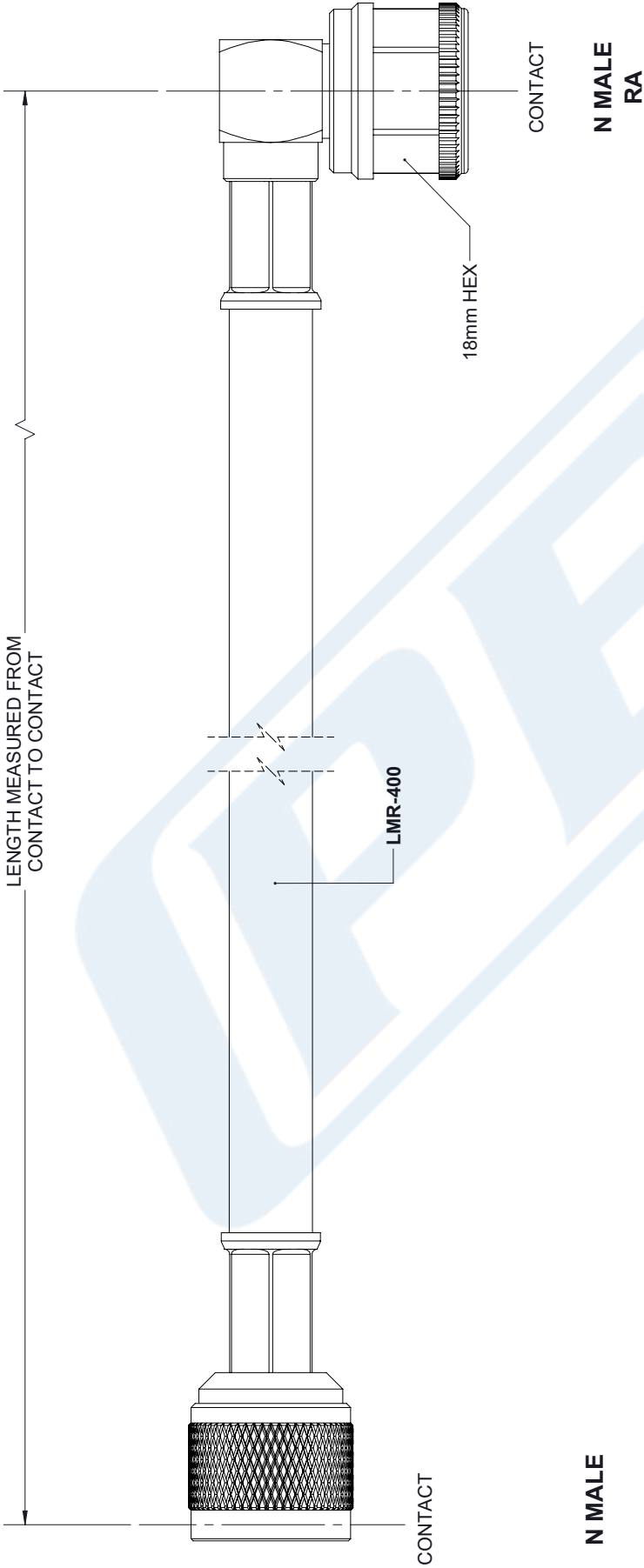
URL: <https://www.pasternack.com/n-male-n-male-lmr400-cable-assembly-pe3w00430-12-p.aspx>

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.

PE3W00430-12 CAD Drawing

N Male to N Male Right Angle Cable 12 Inch Length Using LMR-400 Coax

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 05/02/19 | SELLIS   |



|                                                                                                                                                                                         |            |                                                                                                            |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------|-----------|
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| SIZE A                                                                                                                                                                                  | CAGE 53919 | DRAWN BY K.DANG                                                                                            | REV A     |
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS                                                                                        |            | PART NUMBER PE3W00430                                                                                      |           |
| TOLERANCES:<br>X±.2 [5.08]<br>.XX±.01 [.25]<br>.XXX±.005 [.13]                                                                                                                          |            | FRACTIONS<br>±1/32<br>ANGLES ±1°                                                                           |           |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                                                                                                         |            | THIRD-ANGLE PROJECTION                                                                                     |           |
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