



N Male Right Angle to N Female Cable  
100 cm Length Using RG400 Coax

RF Cable Assemblies Technical Data Sheet

PE3W06096-100CM

### Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Female
- Cable Type: RG400

### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W06096-100CM type N male right angle to type N female 100 cm cable using RG400 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 female gender configuration with 50 ohm flexible RG400 coax. The PE3W06096-100CM type N male to type N female cable assembly operates to 3 GHz. The right angle type N interface on the RG400 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 3       | GHz          |
| VSWR                    |         |             | 1.5:1   |              |
| Velocity of Propagation |         | 70          |         | %            |
| Capacitance             |         | 32 [104.99] |         | pF/ft [pF/m] |

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 N Female Cable 100 cm Length Using RG400 Coax PE3W06096-100CM](#)



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**Specifications by Frequency**

| Description           | F1   | F2  | F3   | F4   | F5   | Units |
|-----------------------|------|-----|------|------|------|-------|
| Frequency             | 0.25 | 0.5 | 1    | 2.5  | 3    | GHz   |
| Insertion Loss (Max.) | 0.5  | 0.6 | 0.79 | 1.05 | 1.13 | dB    |

**Electrical Specification Notes:**

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

**Mechanical Specifications**

**Cable Assembly**

|          |                    |
|----------|--------------------|
| Length*  | 39.37 in [100 cm]  |
| Diameter | 1.29 in [32.77 mm] |

**Cable**

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG400                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper, Silver             |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.195 in [4.95 mm]         |
| Repeated Minimum Bend Radius         | 1 in [25.4 mm]             |

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**Connectors**

| Description                       | Connector 1        | Connector 2           |
|-----------------------------------|--------------------|-----------------------|
| Type                              | N Male Right Angle | N Female              |
| Specification                     | MIL-STD-348A       |                       |
| Impedance                         | 50 Ohms            | 50 Ohms               |
| Mating Cycles                     | 500                |                       |
| Contact Material and Plating      | Brass, Gold        | Phosphor Bronze, Gold |
| Contact Plating Specification     | 30 µin minimum     |                       |
| Dielectric Type                   | PTFE               | Teflon                |
| Body Material and Plating         | Brass, Nickel      | Brass, Nexcote        |
| Body Plating Specification        | 100 µin minimum    |                       |
| 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.

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

**Plotted and Other Data**

Notes:

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**How to Order**

Part Number Configuration:

**PE3W06096**

- **xx**

**uu**

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

Example: PE3W06096-12 = 12 inches long cable  
PE3W06096-100cm = 100 cm long cable

N Male Right Angle to N Female Cable 100 cm Length Using RG400 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 Right Angle to N Female Cable 100 cm Length Using RG400 Coax PE3W06096-100CM](#)

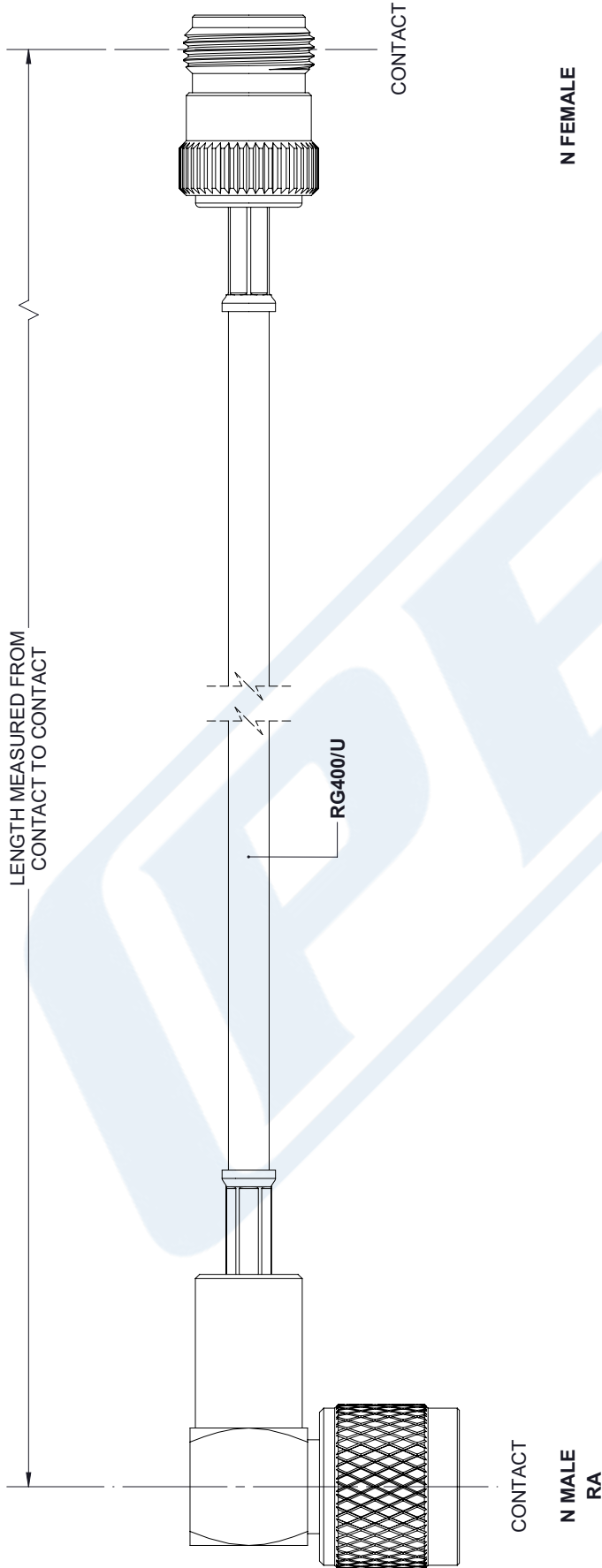
URL: <https://www.pasternack.com/n-male-n-female-rg400u-cable-assembly-pe3w06096-100cm-p.aspx>

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.

# PE3W06096-100CM CAD Drawing

N Male Right Angle to N Female Cable 100 cm Length Using RG400 Coax

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/30/19 | SELLIS   |



|  |        |             |       |
|--|--------|-------------|-------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |        |             |       |
| TOLERANCES:  |        |             |       |
| X±.2   | [5.08] | FRACTIONS   |       |
| .XX±.01  | [.25]  |             | ±.132 |
| .XXX±.005  | [.13]  | ANGLES ± 1° |       |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.  |        |             |       |
| THIRD-ANGLE PROJECTION   |        |             |       |
|  |        |             |       |

|   |       |          |             |
|---|-------|----------|-------------|
| <b>PE PASTERNAK</b><br>an INFINITO brand<br>Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com |       |          |             |
| SIZE  | CAGE  | DRAWN BY | PART NUMBER |
| A   | 53919 | K.DANG   | PE3W06096   |
|   |       |          | REV         |
|   |       |          | A           |

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

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