



## N Male to N Female Cable 60 Inch Using RG400 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W07899-60**

#### Configuration

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

#### Features

- Max Frequency 12.4 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W07899-60 type N male to type N female 60 inch 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 PE3W07899-60 type N male to type N female cable assembly operates to 12.4 GHz. 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      |             | 12.4    | GHz          |
| VSWR                    |         |             | 1.5:1   |              |
| Velocity of Propagation |         | 70          |         | %            |
| Capacitance             |         | 32 [104.99] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.5  | 1    | 2.5  | 5    | 12.4 | GHz   |
| Insertion Loss (Max.) | 0.78 | 1.05 | 1.84 | 2.68 | 4.7  | dB    |

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 Female Cable 60 Inch Using RG400 Coax PE3W07899-60](#)



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#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1 dB per N male and N female connector.

#### Mechanical Specifications

##### Cable Assembly

|          |                     |
|----------|---------------------|
| Length*  | 60 in [152.4 cm]    |
| Diameter | 0.812 in [20.62 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]             |

#### Connectors

| Description                          | Connector 1    | Connector 2           |
|--------------------------------------|----------------|-----------------------|
| Type                                 | N Male         | N Female              |
| Specification                        | MIL-STD-348    |                       |
| Impedance                            | 50 Ohms        | 50 Ohms               |
| Contact Material and Plating         | Brass, Silver  | Phosphor Bronze, Gold |
| Contact Plating Specification        | ASTM-B700      |                       |
| Dielectric Type                      | PTFE           | Teflon                |
| Outer Conductor Material and Plating | Copper, Nickel | Brass, Nexcote        |
| Body Material and Plating            | Brass, Nickel  | Brass, Nexcote        |
| Body Plating Specification           | ASTM-B689      |                       |
| Coupling Nut Material and Plating    | Brass, Nickel  |                       |
| Coupling Nut Plating Specification   | ASTM-B689      |                       |
| Seal Gasket Material                 | Silicone       |                       |

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#### Environmental Specifications

##### Temperature

Operating Range

-55 to +125 deg C

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

#### Plotted and Other Data

Notes:

#### How to Order

Part Number Configuration:

**PE3W07899**

- **xx**

**uu**

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

Example: PE3W07899-12 = 12 inches long cable  
PE3W07899-100cm = 100 cm long cable

N Male to N Female Cable 60 Inch 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.

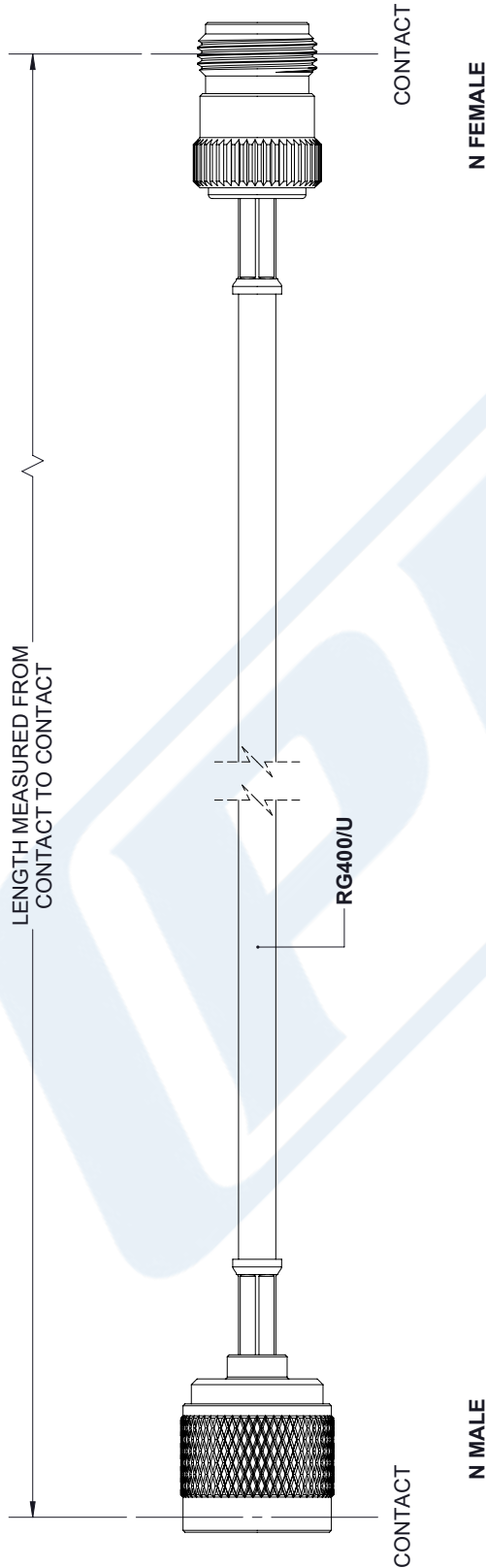
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Female Cable 60 Inch Using RG400 Coax PE3W07899-60](#)

URL: <https://www.pasternack.com/n-male-n-female-rg400u-cable-assembly-pe3w07899-60-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.

PE3W07899-60 CAD Drawing  
N Male to N Female Cable 60 Inch Using RG400 Coax

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 1/22/2020 | S.ELLIS  |



|                                                                                                  |                  |
|--------------------------------------------------------------------------------------------------|------------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |                  |
| TOLERANCES:                                                                                      |                  |
| .X = ± .2 [5.08]                                                                                 | FRACTIONS ± 1/32 |
| .XX = ± .02 [ .51]                                                                               | ANGLES ± 1°      |
| .XXX = ± .005 [ .13]                                                                             |                  |
| CABLE LENGTH (L) TOLERANCES:                                                                     |                  |
| L ≤ 12 [305] = +1 [25] / -0                                                                      |                  |
| 12 [305] < L ≤ 60 [1524] = +2 [51] / -0                                                          |                  |
| 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0                                                       |                  |
| 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0                                                      |                  |
| 300 [7620] < L = +5% L / -0                                                                      |                  |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |                  |

|                                                                                                                                                                                                   |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
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| SIZE                                                                                                                                                                                              | ITEM NO.  |
| A                                                                                                                                                                                                 | 53919     |
| DRAWN BY                                                                                                                                                                                          | K.DANG    |
| REV                                                                                                                                                                                               | PE3W07899 |
| SCALE                                                                                                                                                                                             | N/A       |
| SHEET                                                                                                                                                                                             | 1 OF 1    |

|                                                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------|--|
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