



N Male to N Male Precision Cable 60 Inch  
Length Using 160 Series Coax, RoHS

**TECHNICAL DATA SHEET**

**PE302-60**

**N Male to N Male Precision Cable 60 Inch Length Using 160 Series Coax, RoHS**

**Configuration**

|             |            |
|-------------|------------|
| Connector 1 | N Male     |
| Connector 2 | N Male     |
| Cable Type  | 160 Series |

**Electrical Specifications**

|                                 |          |
|---------------------------------|----------|
| Frequency Range, GHz            | DC to 18 |
| Impedance, Ohms                 | 50       |
| Maximum VSWR                    | 1.4:1    |
| Velocity of Propagation, %      | 69.5     |
| RF Shielding, dB                | 90       |
| Maximum Operating Voltage, Vrms | 1,200    |

**Typical Electrical Specifications**

**Frequency 1**

|                |                         |
|----------------|-------------------------|
| Frequency, GHz | 2                       |
| VSWR           | 1.04:1                  |
| Insertion Loss | 0.2 dB/ft [ 0.66 dB/m ] |

**Frequency 2**

|                |                         |
|----------------|-------------------------|
| Frequency, GHz | 6                       |
| VSWR           | 1.06:1                  |
| Insertion Loss | 0.3 dB/ft [ 0.98 dB/m ] |

**Frequency 3**

|                |                         |
|----------------|-------------------------|
| Frequency, GHz | 10                      |
| VSWR           | 1.1:1                   |
| Insertion Loss | 0.4 dB/ft [ 1.31 dB/m ] |

**Frequency 4**

|                |                         |
|----------------|-------------------------|
| Frequency, GHz | 14                      |
| VSWR           | 1.18:1                  |
| Insertion Loss | 0.5 dB/ft [ 1.64 dB/m ] |

**Frequency 5**

|                |                         |
|----------------|-------------------------|
| Frequency, GHz | 16                      |
| VSWR           | 1.27:1                  |
| Insertion Loss | 0.55 dB/ft [ 1.8 dB/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 to N Male Precision Cable 60 Inch Length Using 160 Series Coax, RoHS PE302-60](#)

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.



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#### Frequency 6

|                |                         |
|----------------|-------------------------|
| Frequency, GHz | 18                      |
| VSWR           | 1.28:1                  |
| Insertion Loss | 0.6 dB/ft [ 1.97 dB/m ] |

#### Electrical Specification Notes:

Short lengths up to 24" long may exhibit VSWR measurements up to 9% higher.

### Mechanical Specifications

#### Cable Assembly

|            |            |
|------------|------------|
| Cable Type | 160 Series |
|------------|------------|

#### Temperature

|                                    |             |
|------------------------------------|-------------|
| Temperature Operating Range, deg C | -48 to +204 |
|------------------------------------|-------------|

#### Size

|                                       |               |
|---------------------------------------|---------------|
| Length, in [cm]                       | 60 [152.4]    |
| Diameter, in [mm]                     | 0.17 [4.32]   |
| Weight, lbs [g]                       | 0.038 [17.24] |
| Cable Color                           | Blue          |
| One Time Minimum Bend Radius, in [mm] | 1 [25.4]      |

#### Cable

|                          |                           |
|--------------------------|---------------------------|
| Center Conductor Type    | Solid                     |
| Cable Inner Conductor    | Copper Clad Steel, Silver |
| No of Shields            | 3                         |
| Dielectric Type          | PTFE                      |
| Jacket Material          | FEP                       |
| Jacket Diameter, in [mm] | 0.163 [4.14]              |

#### Connector 1

|                                      |                            |
|--------------------------------------|----------------------------|
| Type                                 | N Male                     |
| Configuration                        | Straight                   |
| Inner Conductor Material and Plating | Gold                       |
| Coupling Nut Material and Plating    | Passivated Stainless Steel |
| Hex Size, in.                        | 13/16                      |
| Torque, in-lbs [Nm]                  | 15 [1.7]                   |
| Body Material and Plating            | Passivated Stainless Steel |
| Dielectric Type                      | PTFE                       |

#### Connector 2

|                                      |          |
|--------------------------------------|----------|
| Type                                 | N Male   |
| Configuration                        | Straight |
| Inner Conductor Material and Plating | Gold     |

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Coupling Nut Material and Plating  
Hex Size, in.  
Torque, in-lbs [Nm]  
Body Material and Plating  
Dielectric Type

Passivated Stainless Steel  
13/16  
15 [1.7]  
Passivated Stainless Steel  
PTFE

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)  
RoHS Compliant

Yes

**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

N Male to N Male Precision Cable 60 Inch Length Using 160 Series Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

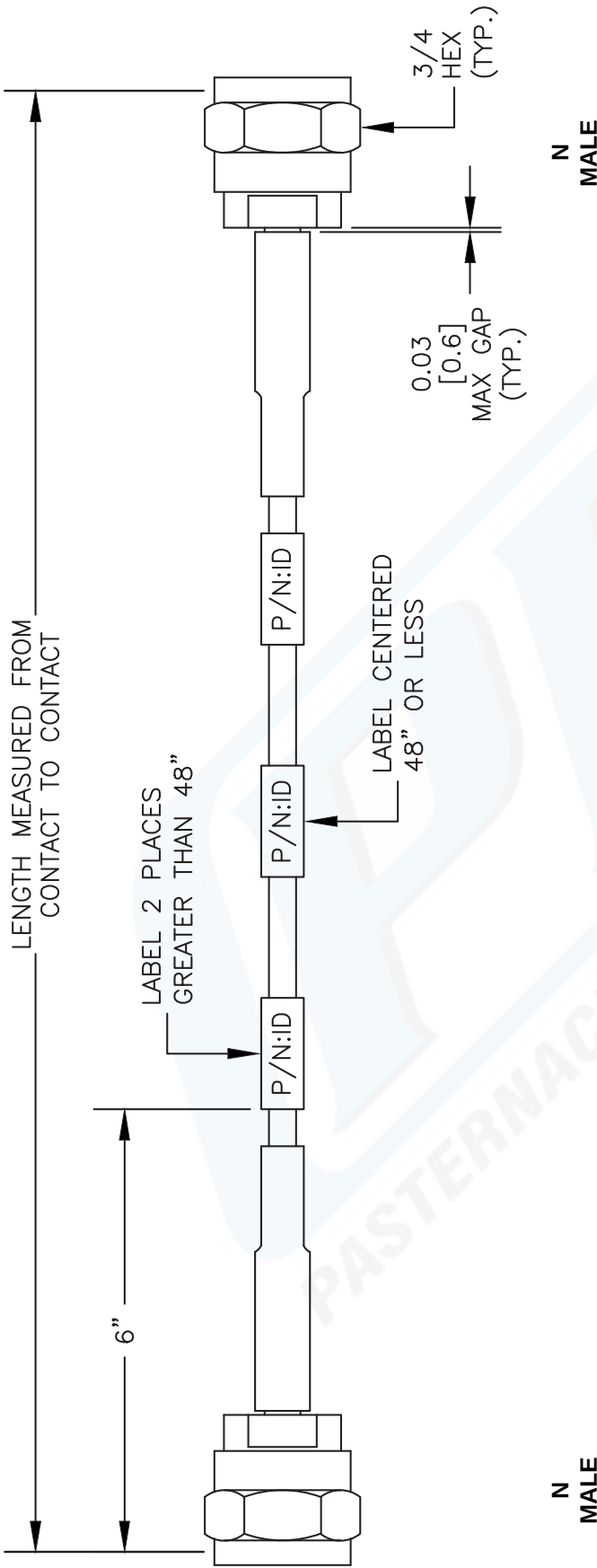
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Precision Cable 60 Inch Length Using 160 Series Coax, RoHS PE302-60](http://www.pasternack.com/n-male-n-male-300-series-cable-assembly-pe302-60-p.aspx)

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PE302-60 CAD Drawing

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| How To Order                       |     |                    |         | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|------------------------------------|-----|--------------------|---------|-------------|------------------|-------------|-----------------------|
| <b>Part Number Configuration</b>   |     | <b>Examples</b>    |         | -12         | 12"              | -25CM       | 25Cm                  |
| PE3                                | zzz | yy                 | - xx uu | -24         | 24"              | -50CM       | 50Cm                  |
| 00 - 99999                         |     | CM = Centimeters   |         | -36         | 36"              | -75CM       | 75Cm                  |
| LF = Lead Free                     |     | < Blank > = Inches |         | -48         | 48"              | -100CM      | 100Cm                 |
| < Blank > = Standard               |     | Length             |         | -60         | 60"              | -125CM      | 125Cm                 |
| Note: LF applies only to RF cables |     |                    |         | -xx         | Custom Length    | -xxCM       | Custom Length         |

**PASTERNAK®**  
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**PE302**  
DWG TITLE

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].  
4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

**FSCM NO. 53919**  
CAD FILE 071012-A  
SCALE N/A  
SIZE A  
2233