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# N Male to N Male Low Loss Test Cable 36 Inch Length Using PE-P300LL Coax, RoHS

## TECHNICAL DATA SHEET PE330-36

### Low Loss N Male to N Male Test Cable Using 83% VoP PE-P300LL Coax operating to 18 GHz

The PE330 high performance test cable's 0.3 inch diameter and 83% phase velocity offer very low loss performance up to 18 GHz. The durable stainless steel connectors and FEP jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. The series is offered with Type N, TNC, and SMA connectors all rated to 18 GHz. A heavy Duty boot provides improved strain relief and adds to the durability of the cable assemblies. These cable assemblies are built using a double shielded flexible cable, providing excellent shielding effectiveness of greater than 95 dB. All PE330 cable assemblies are 100% Continuity, Hi-POT, and RF tested to published specifications. Custom lengths are built to order and shipped same day.

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.35:1 to 18 GHz
- Minimum Bend Radius of 1.5 inches
- Operating Temperature range of -55 to +125 °C
- ROHS and REACH Compliant
- Same day shipment of custom lengths
- 100% Continuity, Hi-Pot, and RF tested

### Configuration

| | |
|---|---|
| Connector 1 | N Male |
| Connector 2 | N Male |
| Cable Type | PE-P300LL |

### Electrical Specifications

| | |
|---|---|
| Frequency Range, GHz | DC to 18 |
| Impedance, Ohms | 50 |
| Maximum VSWR | 1.35:1 |
| Velocity of Propagation, % | 83 |
| RF Shielding, dB | 95 |

#### Typical Performance by Frequency

**Frequency 1**

| | |
|---|---|
| Frequency, MHz | 400 |
| Insertion Loss | 0.03 dB/ft [0.1 dB/m ] |
| Power Handling, KWatts | 2.9 |

**Frequency 2**

| | |
|---|---|
| Frequency, MHz | 1000 |
| Insertion Loss | 0.05 dB/ft [0.16 dB/m ] |
| Power Handling, KWatts | 1.8 |

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 Low Loss Test Cable 36 Inch Length Using PE-P300LL Coax, RoHS PE330-36

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 Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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| | |
|---|---|
| **Frequency 3** | |
| Frequency, GHz | 2 |
| Insertion Loss | 0.07 dB/ft [0.23 dB/m ] |
| Power Handling, KWatts | 1.2 |
| **Frequency 4** | |
| Frequency, GHz | 3 |
| Insertion Loss | 0.08 dB/ft [0.26 dB/m ] |
| Power Handling, KWatts | 1.05 |
| **Frequency 5** | |
| Frequency, GHz | 5 |
| Insertion Loss | 0.11 dB/ft [0.36 dB/m ] |
| Power Handling, Watts | 850 |
| **Frequency 6** | |
| Frequency, GHz | 10 |
| Insertion Loss | 0.16 dB/ft [0.52 dB/m ] |
| Power Handling, Watts | 600 |
| **Frequency 7** | |
| Frequency, GHz | 18 |
| Insertion Loss | 0.22 dB/ft [0.72 dB/m ] |
| Power Handling, Watts | 400 |
| Electrical Specification Notes: | Power handling values are calculated based on Cable properties. Power handling will vary based on the actual VSWR of the cable assembly. |

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Cable Type | PE-P300LL |
| **Temperature** | |
| Temperature Operating Range, deg C | -55 to +125 |
| **Size** | |
| Length, in [mm] | 36 [914.4] |
| Diameter, in [mm] | 0.75 [19.05] |
| Weight, lbs [g] | 0.1 [45.36] |
| Cable Color | Green |
| Repeated Minimum Bend Radius, in [mm] | 1.5 [38.1] |

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### Cable

| | |
|---|---|
| Center Conductor Type | Solid |
| Cable Inner Conductor | Copper, Silver |
| No of Shields | 2 |
| Cable Outer Conductor | Copper, Silver |
| Dielectric Type | PTFE |
| Jacket Material | FEP |
| Jacket Diameter, in [mm] | 0.3 [7.62] |

### Connector 1

| | |
|---|---|
| Type | N Male |
| Configuration | Straight |
| Inner Conductor Material and Plating | Beryllium Copper, Gold |
| Inner Conductor Plating Specification | ASTM-B488 50µ In. |
| Outer Conductor Material and Plating | Passivated Stainless Steel |
| Outer Conductor Plating Specification | SAE-AMS-2700 |
| Coupling Nut Material and Plating | Passivated Stainless Steel |
| Coupling Nut Plating Specification | SAE-AMS-2700 |
| Hex Size, Inch | 3/4 |
| Torque, in-lbs [Nm] | 14 [1.58] |
| Body Material and Plating | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 |
| Dielectric Type | PTFE |

### Connector 2

| | |
|---|---|
| Type | N Male |
| Configuration | Straight |
| Inner Conductor Material and Plating | Beryllium Copper, Gold |
| Inner Conductor Plating Specification | ASTM-B488 50µ In. |
| Outer Conductor Material and Plating | Passivated Stainless Steel |
| Outer Conductor Plating Specification | SAE-AMS-2700 |
| Coupling Nut Material and Plating | Passivated Stainless Steel |
| Coupling Nut Plating Specification | SAE-AMS-2700 |
| Hex Size, Inch | 3/4 |
| Torque, in-lbs [Nm] | 14 [1.58] |
| Body Material and Plating | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 |
| Dielectric Type | PTFE |

### Compliance Certifications (visit www.Pasternack.com for current document)

| | |
|---|---|
| RoHS Compliant | Yes |

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## Plotted and Other Data

Notes: Values at 25 °C, sea level

N Male to N Male Low Loss Test Cable 36 Inch Length Using PE-P300LL 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 Low Loss Test Cable 36 Inch Length Using PE-P300LL Coax, RoHS PE330-36

URL: http://www.pasternack.com/n-male-n-male-pe-p300ll-cable-assembly-pe330-36-p.aspx

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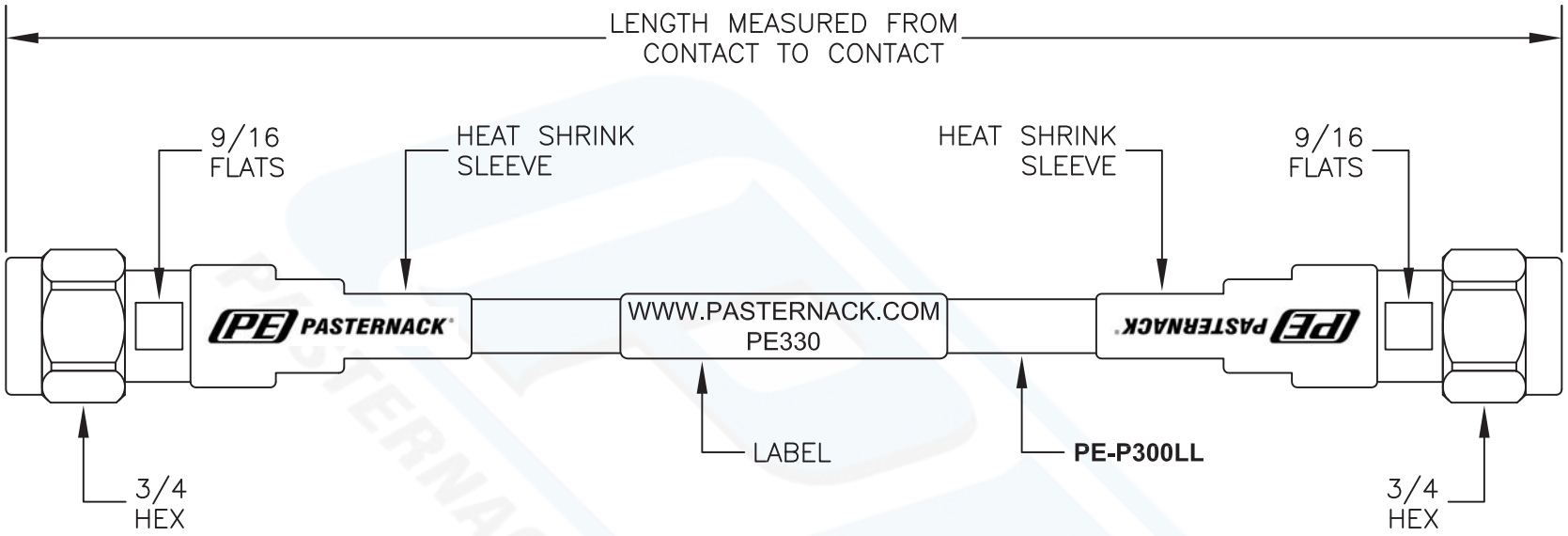
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# PE330-36 CAD Drawing

N Male to N Male Low Loss Test Cable 36 Inch Length Using PE-P300LL Coax, RoHS




NOTE:
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

| How To Order | | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|---|---|---|---|---|---|
| Part Number Configuration<br>PE3 [zzz] - [xx] [uu]<br>00 - 99999<br>CM = Centimeters<br>< Blank > = Inches<br>Length | Examples<br>PE3000-100<br>PE3000-100CM | -12 | 12" | -25CM | 25Cm |
| | | -24 | 24" | -50CM | 50Cm |
| | | -36 | 36" | -75CM | 75Cm |
| | | -48 | 48" | -100CM | 100Cm |
| | | -60 | 60" | -125CM | 125Cm |
| | | -xx | Custom Length | -xxCM | Custom Length |

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DWG TITLE
**PE330**

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 091713 | SCALE N/A | SIZE A | 2233 |
|---|---|---|---|---|