



N Male to SMA Male with Reduced Diameter SMA Body Low Loss Test Cable 36 Inch Length Using PE-P300LL Coax, RoHS

RF Cable Assemblies Technical Data Sheet

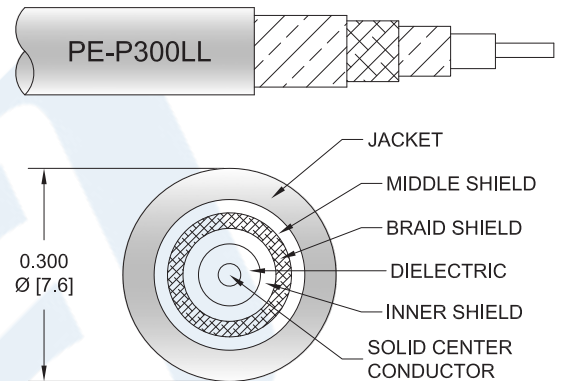
PE337-36

**Configuration**

- Connector 1: N Male
- Connector 2: SMA Male
- Cable Type: PE-P300LL

**Features**

- SMA Body diameter of 0.49 inches
- 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 and RF tested



**Description**

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 reduced 0.49 inch diameter SMA body allows for attachment to closely spaced connection points found on multiport components and interface panels. 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 and RF tested to published specifications. Custom lengths are built to order and shipped same day.

**Electrical Specifications**

| Description             | Minimum | Typical    | Maximum | Units        |
|-------------------------|---------|------------|---------|--------------|
| Frequency Range         | DC      |            | 18      | GHz          |
| VSWR                    |         |            | 1.35:1  |              |
| Velocity of Propagation |         | 83         |         | %            |
| RF Shielding            | 95      |            |         | dB           |
| Capacitance             |         | 25 [82.02] |         | 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 to SMA Male with Reduced Diameter SMA Body Low Loss Test Cable 36 Inch Length Using PE-P300LL Coax, RoHS PE337-36](#)



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**Specifications by Frequency**

| Description           | F1    | F2    | F3   | F4   | F5   | Units |
|-----------------------|-------|-------|------|------|------|-------|
| Frequency             | 1     | 2     | 4.5  | 9    | 18   | GHz   |
| Insertion Loss (Max.) | 0.38  | 0.44  | 0.56 | 0.74 | 0.98 | dB    |
| Insertion Loss (Typ.) | 0.35  | 0.41  | 0.5  | 0.65 | 0.86 | dB    |
| Power Handling (Max.) | 1,800 | 1,200 | 900  | 650  | 400  | Watts |

**Mechanical Specifications**

**Cable Assembly**

Length\* 36 in [914.4 mm]  
 Diameter 0.75 in [19.05 mm]

**Cable**

Cable Type PE-P300LL  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 3  
 Shield Layer 1 Silver Plated Copper Tape  
 Shield Layer 2 Aluminum Polyester  
 Shield Layer 3 Silver Plated Copper Wire  
 Jacket Material FEP, Green  
 Jacket Diameter 0.3 in [7.62 mm]  
 Repeated Minimum Bend Radius 1.5 in [38.1 mm]

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**Connectors**

| Description                           | Connector 1                | Connector 2                |
|---------------------------------------|----------------------------|----------------------------|
| Type                                  | N Male                     | SMA Male                   |
| Specification                         |                            | MIL-STD-348                |
| Impedance                             | 50 Ohms                    | 50 Ohms                    |
| Contact Material and Plating          | Beryllium Copper, Gold     | Beryllium Copper, Gold     |
| Contact Plating Specification         | ASTM-B488 50µ In.          | ASTM-B488 50µ In.          |
| Dielectric Type                       | PTFE                       | PTFE                       |
| Outer Conductor Material and Plating  | Passivated Stainless Steel | Passivated Stainless Steel |
| Outer Conductor Plating Specification | SAE-AMS-2700               | SAE-AMS-2700               |
| Coupling Nut Material and Plating     | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Plating Specification    | SAE-AMS-2700               | SAE-AMS-2700               |
| Hex Size                              | 3/4 Inch                   | 5/16 Inch                  |
| Torque                                | 14 in-lbs [1.58 Nm]        | 8 in-lbs [0.9 Nm]          |
| Body Material and Plating             | Passivated Stainless Steel | Passivated Stainless Steel |
| Body Plating Specification            | SAE-AMS-2700               | SAE-AMS-2700               |

Mechanical Specification Notes:

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

**Environmental Specifications**

**Temperature**

Operating Range -55 to +125 deg C

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

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

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**How to Order**

Part Number Configuration:

**PE337 - xx uu**

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

Example: PE337-12 = 12 inches long cable  
PE337-100cm = 100 cm long cable

N Male to SMA Male with Reduced Diameter SMA Body 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 millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

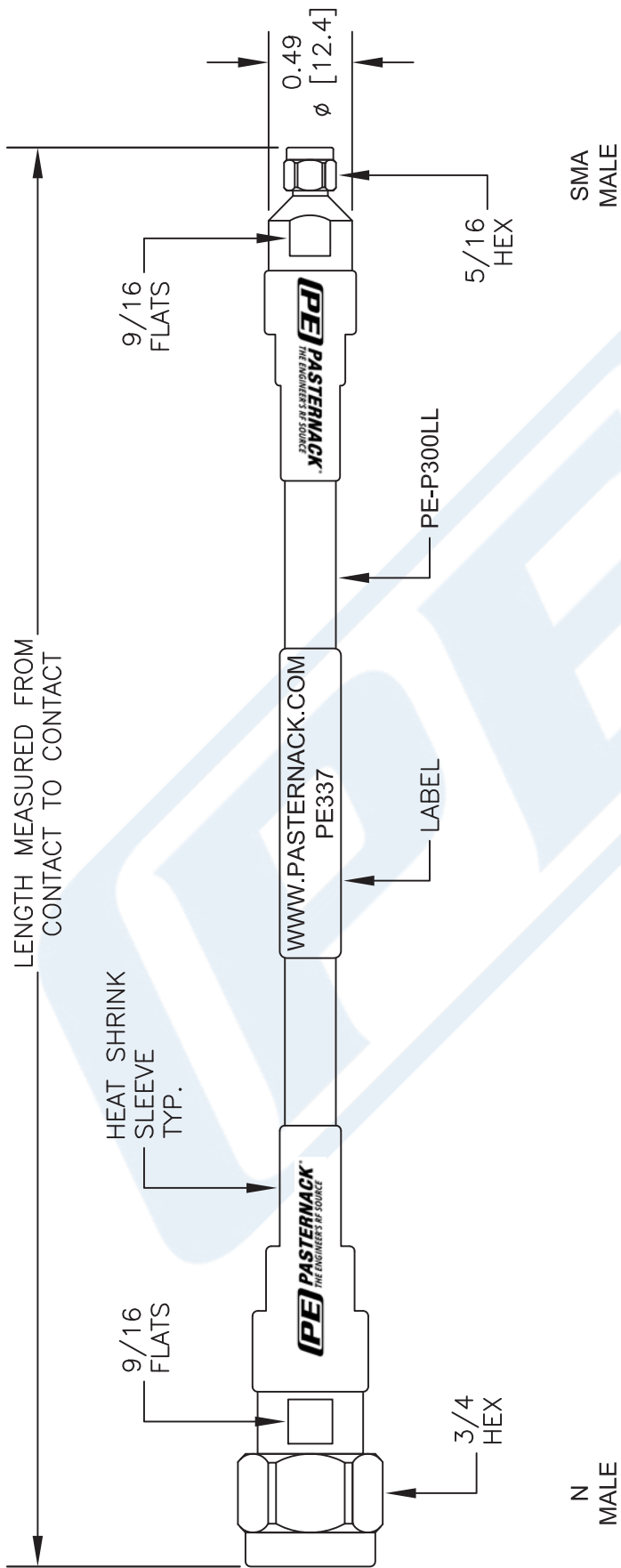
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URL: <https://www.pasternack.com/n-male-sma-male-pe-p300ll-cable-assembly-pe337-36-p.aspx>

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.

# PE337-36 CAD Drawing

N Male to SMA Male with Reduced Diameter SMA Body 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.

DWG TITLE

**PE337**

- 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  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

**PE PASTERNAK**  
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FSCM NO. 53919

CAD FILE 062116

SCALE N/A

SIZE A

2233