PASTERNACK®
THE ENGINEER'S RF SOURCE

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

TECHNICAL DATA SHEET PE337

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, Hi-POT, and RF tested to published specifications. Custom lengths are built to order and shipped same day.

- 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, Hi-Pot, and RF tested

Configuration

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

Electrical Specifications

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

Typical Performance by Frequency

Frequency 1

Frequency	400 MHz
Insertion Loss	0 dB/ft [0.10 dB/m]
Power Handling, KWatts	2.9

Frequency 2

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

Frequency 3

Frequency	2 GHz
Insertion Loss	0.07 dB/ft [0.23 dB/m]
Power Handling	1.2 KWatts

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 Using PE-P300LL Coax, RoHS PE337

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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Frequency 4

Frequency	3 GHz
Insertion Loss	0.08 dB/ft [0.26 dB/m]
Power Handling	1.05 KWatts

Frequency 5

Frequency	5 GHz
Insertion Loss	0.11 dB/ft [0.36 dB/m]
Power Handling	850 Watts

Frequency 6

Frequency	10 GHz
Insertion Loss	0.16 dB/ft [0.52 dB/m]
Power Handling	600 Watts

Frequency 7

Frequency	18 GHz
Insertion Loss	0.22 dB/ft [0.72 dB/m]
Power Handling	400 Watts

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

Temperature

Temperature Operating Range	-55 to +125 deg C

Size

Diameter	0.75 in [19.05 mm]
Weight	0.1 lbs [45.36 g]
Cable Color	Green
Repeated Minimum Bend Radius	1.5 in [38.1 mm]

Cable

Cable Type	PE-P300LL
Cable Inner Conductor	Copper, Silver
No of Shields	2
Cable Outer Conductor	Copper, Silver
Dielectric Type	PTFE
Jacket Material	FEP
Jacket Diameter	0.3 in [7.62 mm]

Connector 1

Type	N Male
Configuration	Straight

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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	3/4 Inch
Torque	14 in-lbs [1.58 Nm]
Body Material and Plating	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700
Dielectric Type	PTFE

Connector 2

Type	SMA Male
Connector 2 Specification	MIL-STD-348, Figure 310-1.
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	5/16 Inch
Torque	8 in-lbs [0.9 Nm]
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 SMA Male with Reduced Diameter SMA Body Low Loss Test Cable 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: http://www.pasternack.com/n-male-sma-male-pe-p300ll-cable-assembly-pe337-p.aspx

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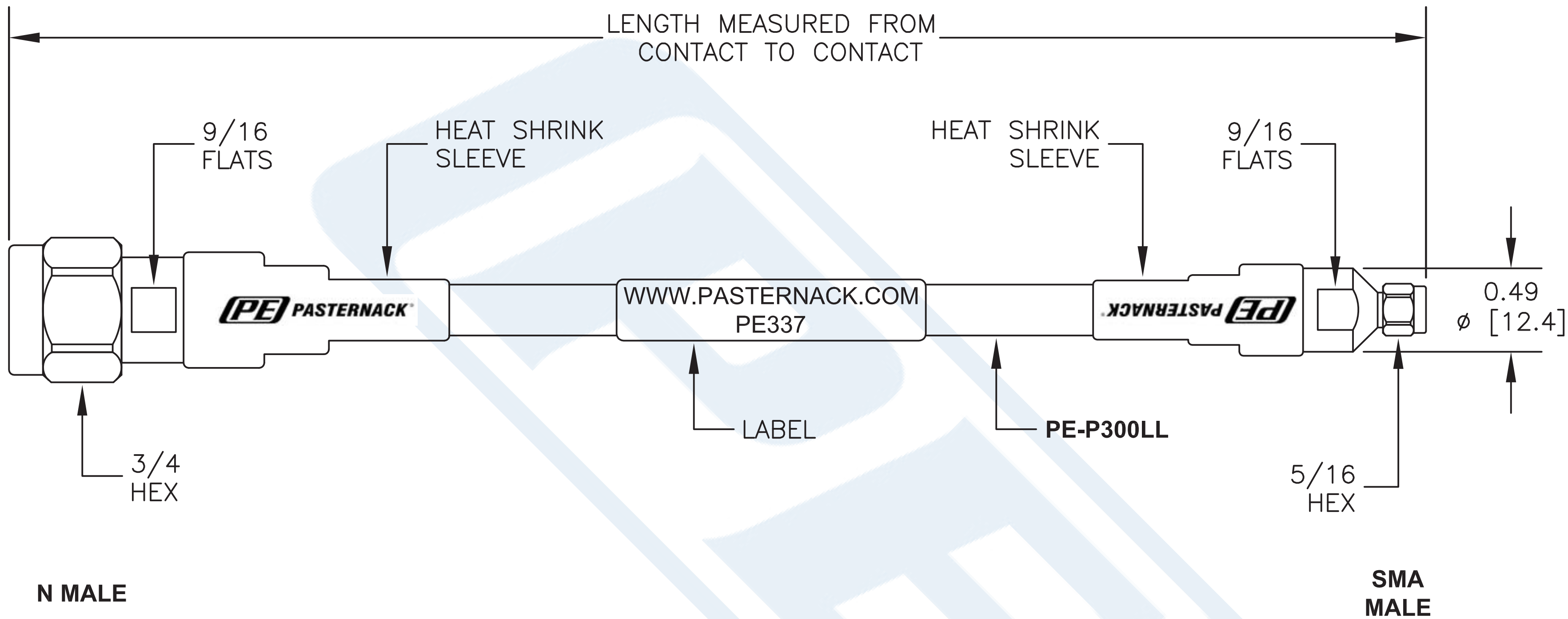
PE337 CAD Drawing

N Male to SMA Male with Reduced Diameter SMA Body Low Loss Test Cable 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 Number Configuration: PE3 [zzz] - [xx] [uu]
- zzz: 00 - 99999
- xx: Length
- uu: CM = Centimeters; < Blank > = Inches

Examples: PE3000-100, PE3000-100CM

Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
-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
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 ± 1.5% OR 3/8", WHICHEVER IS GREATER.

FSCM NO. 53919	CAD FILE 070914	SCALE N/A	SIZE A	2233