



N Male to N Female Low Loss Test Cable Using PE-P300LL Coax, RoHS

TECHNICAL DATA SHEET

PE331

Low Loss N Male to N Female 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 Female
Connector 2 Specification	MIL-STD-348, Figure 304-2.
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 Female Low Loss Test Cable Using PE-P300LL Coax, RoHS PE331](#)

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 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
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Temperature

Temperature Operating Range, deg C	-55 to +125
Diameter, in [mm]	0.875 [22.23]
Weight, lbs [g]	0.1 [45.36]
Cable Color	Green
Repeated Minimum Bend Radius, in [mm]	1 [25.4]

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Cable

Cable Inner Conductor
No of Shields
Cable Outer Conductor
Dielectric Type
Jacket Material
Jacket Diameter, in [mm]

Copper, Silver
2
Copper, Silver
PTFE
FEP
0.3 [7.62]

Connector 1

Type
Configuration
Inner Conductor Material and Plating
Inner Conductor Plating Specification
Outer Conductor Material and Plating
Outer Conductor Plating Specification
Coupling Nut Material and Plating
Coupling Nut Plating Specification
Hex Size, Inch
Torque, in-lbs [Nm]
Body Material and Plating
Body Plating Specification
Dielectric Type

N Male
Straight
Beryllium Copper, Gold
ASTM-B488 50µ In.
Passivated Stainless Steel
SAE-AMS-2700
Passivated Stainless Steel
SAE-AMS-2700
3/4
14 [1.58]
Passivated Stainless Steel
SAE-AMS-2700
PTFE

Connector 2

Type
Configuration
Inner Conductor Material and Plating
Inner Conductor Plating Specification
Outer Conductor Material and Plating
Outer Conductor Plating Specification
Body Material and Plating
Body Plating Specification
Dielectric Type

N Female
Straight
Beryllium Copper, Gold
ASTM-B488 50µ In.
Passivated Stainless Steel
SAE-AMS-2700
Passivated Stainless Steel
SAE-AMS-2700
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 Female 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 fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

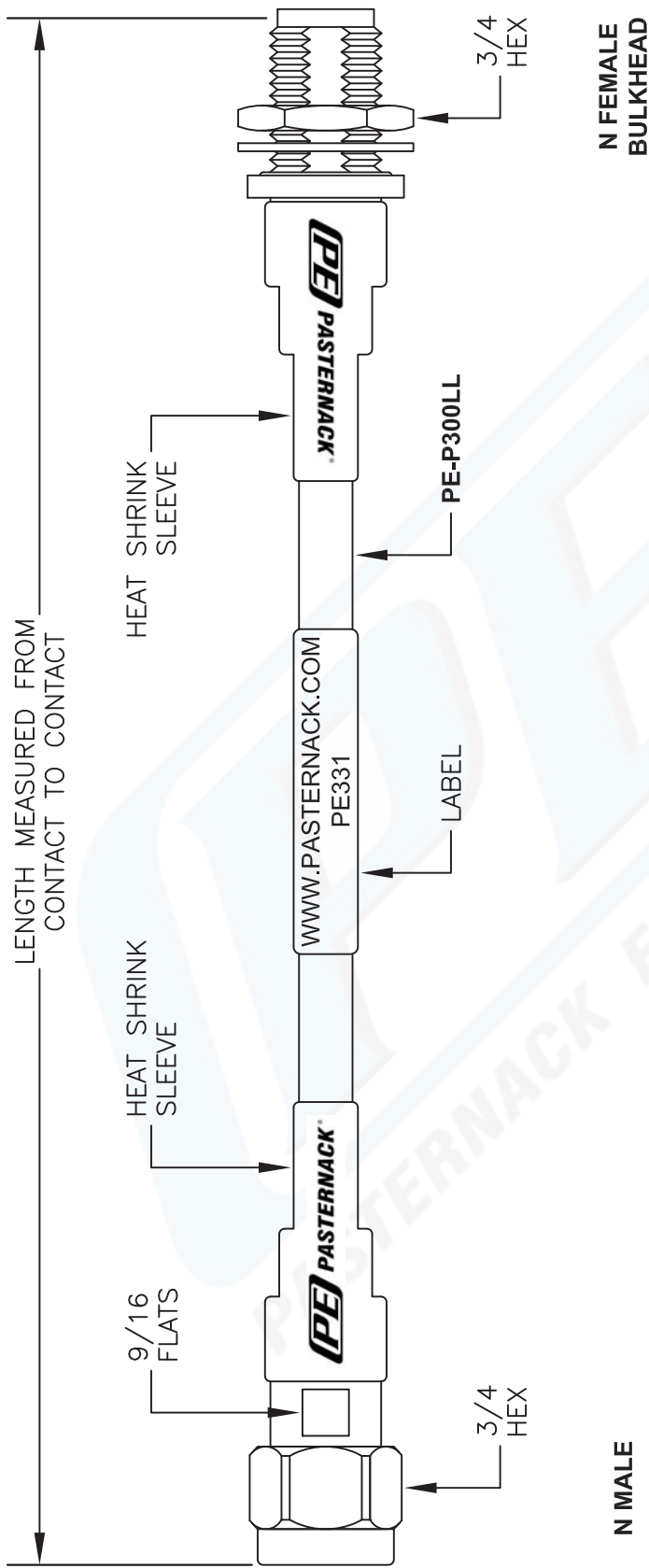
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URL: <http://www.pasternack.com/n-male-n-female-pe-p300ll-cable-assembly-pe331-p.aspx>

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PE331 CAD Drawing

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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
<div>Part Number Configuration</div> <div>PE3<div>zzz</div> - <div>xx</div> <div>uu</div></div> <div>00 - 99999</div> <div>CM = Centimeters < Blank > = Inches</div> <div>Length</div>		<div>Examples</div> <div>PE3000-100</div> <div>PE3000-100CM</div>			
		-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

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.

DWG TITLE
PE331

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FSCM NO. 53919

CAD FILE 091713

SCALE N/A

SIZE A

2233