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N Male to N Female Low Loss Test Cable 48 Inch Length Using PE-P300LL Coax, RoHS

TECHNICAL DATA SHEET PE331-48

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 48 Inch Length Using PE-P300LL Coax, RoHS PE331-48

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 [cm]	48 [121.92]
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	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 Female
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
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 Female Low Loss Test Cable 48 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.

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URL: http://www.pasternack.com/n-male-n-female-pe-p300ll-cable-assembly-pe331-48-p.aspx

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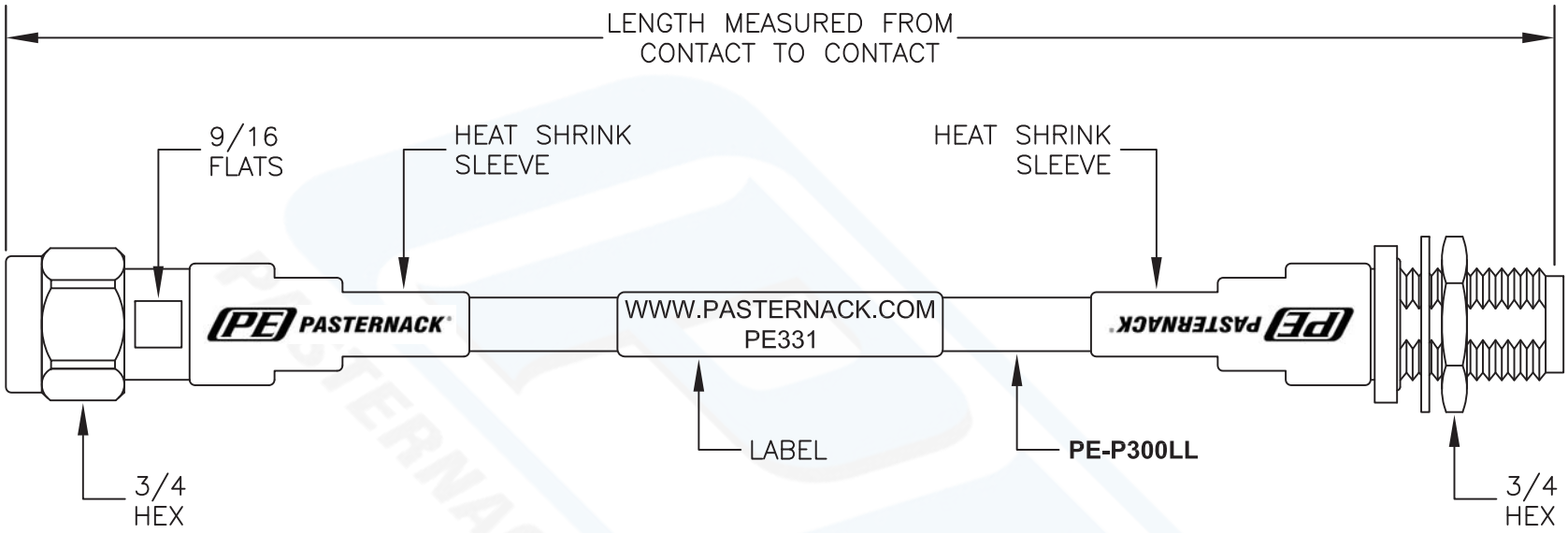
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PE331-48 CAD Drawing

N Male to N Female Low Loss Test Cable 48 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 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

PE331

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