



## N Male to N Female Bulkhead Low Loss Test Cable 24 Inch Length Using PE-P142LL Coax, RoHS

### TECHNICAL DATA SHEET

PE344-24

The PE340's high performance test cable's 0.195 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 PE340 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 Bulkhead
Cable Type	PE-P142LL

#### 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	0.045 dB [0.15 dB]
Power Handling, KWatts	1.2

##### Frequency 2

Frequency, MHz	1000
Insertion Loss	0.072 dB [0.24 dB]
Power Handling, Watts	700

##### Frequency 3

Frequency, GHz	2
Insertion Loss	0.103 dB [0.34 dB]
Power Handling, Watts	500

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 Bulkhead Low Loss Test Cable 24 Inch Length Using PE-P142LL Coax, RoHS PE344-24](#)

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 4

Frequency, GHz	3
Insertion Loss	0.127 dB [0.42 dB ]
Power Handling, Watts	400

#### Frequency 5

Frequency, GHz	5
Insertion Loss	0.166 dB [0.54 dB ]
Power Handling, Watts	300

#### Frequency 6

Frequency, GHz	10
Insertion Loss	0.24 dB [0.79 dB ]
Power Handling, Watts	220

#### Frequency 7

Frequency, GHz	18
Insertion Loss	0.33 dB [1.08 dB ]
Power Handling, Watts	160

#### 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

Cable Type	PE-P142LL
No of Shields	3
Dielectric Type	PTFE
Jacket Material	FEP
Cable Color	Green
Jacket Diameter, in [mm]	0.195 [4.95]

#### Connector 1

Type	N Male
Configuration	Straight
Inner Conductor Material and Plating	Beryllium Copper, Gold
Inner Conductor Plating Specification	ASTM-B488, 50µ Inch.
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]
Dielectric Type	PTFE

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#### Connector 2

##### Type

Connector 2 Specification

Configuration

Mount Method

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 Bulkhead

MIL-STD-348, Figure 304-2

Straight

Bulkhead

Beryllium Copper, Gold

ASTM-B488, 50µ In. Minimum

Passivated Stainless Steel

SAE-AMS-2700

Passivated Stainless Steel

SAE-AMS-2700

PEI

#### Temperature

Temperature Operating Range, deg C

-55 to +125

#### Size

Length, in [mm]

24 [609.6]

Diameter, in [mm]

0.875 [22.23]

Weight, lbs [g]

0.126 [57.15]

Repeated Minimum Bend Radius, in [mm]

1 [25.4]

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

Yes

REACH Compliant

07/19/2006

#### Plotted and Other Data

Notes:

Values at 25 °C, sea level

N Male to N Female Bulkhead Low Loss Test Cable 24 Inch Length Using PE-P142LL 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.

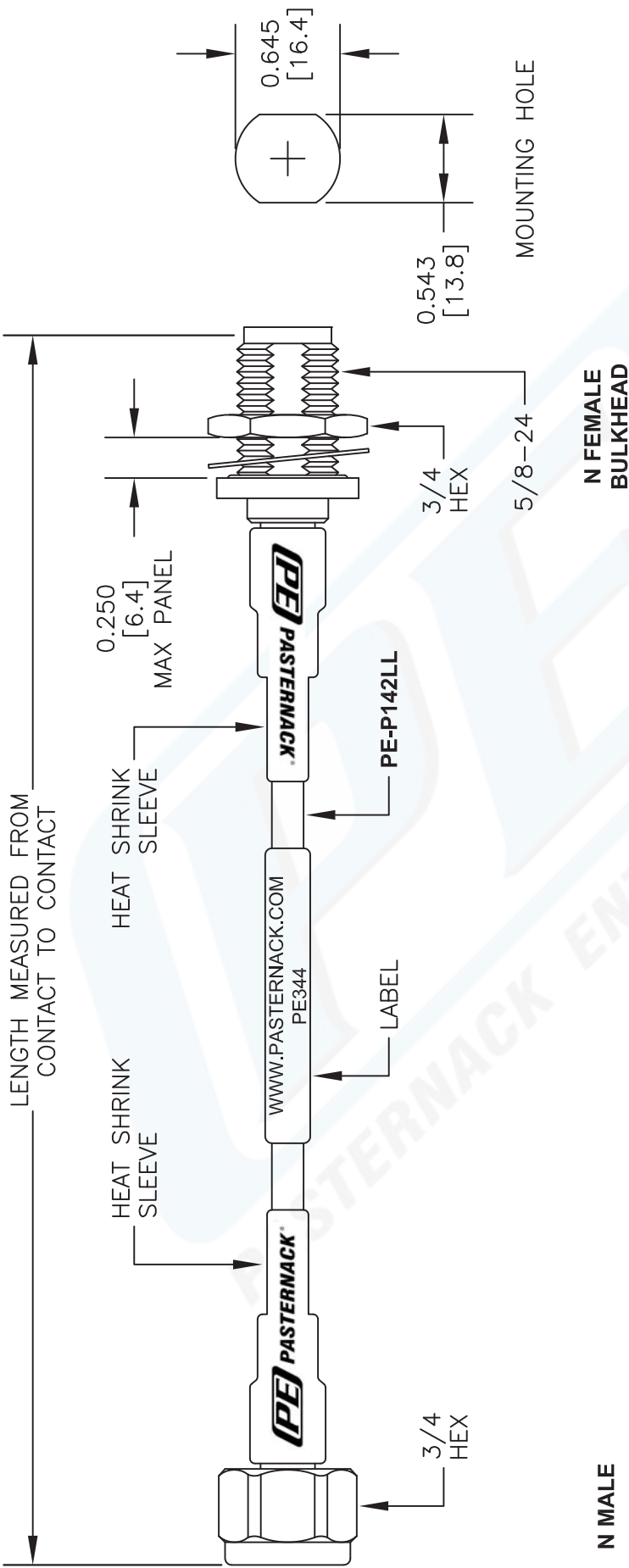
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URL: <http://www.pasternack.com/n-male-n-female-pe-p142ll-cable-assembly-pe344-24-p.aspx>

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PE344-24 CAD Drawing

N Male to N Female Bulkhead Low Loss Test Cable 24 Inch  
Length Using PE-P142LL 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					
<div>Part Number Configuration</div> <div>PE3<div>zzz</div> - <div>xx</div><div>uu</div></div> <div>00 - 99999</div> <div>CM = Centimeters &lt; Blank &gt; = Inches</div> <div>Length</div>		<div>Examples</div> <div>PE3000-100</div> <div>PE3000-100CM</div>			
		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

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.

DWG TITLE  
**PE344**

**PE PASTERNAK®**  
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FSCM NO. 53919

CAD FILE 091713

SCALE N/A

SIZE A

2233