PASTERNACK®
www.pasternack.com

N Male to N Male Right Angle Low Loss Test Cable Using PE-P142LL Coax, RoHS

TECHNICAL DATA SHEET PE345

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 Male Right Angle
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/ft [0.15 dB/m]
Power Handling, KWatts	1.2

Frequency 2

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

Frequency 3

Frequency, GHz	2
Insertion Loss	0.103 dB/ft [0.34 dB/m]
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 Male Right Angle Low Loss Test Cable Using PE-P142LL Coax, RoHS PE345

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, GHz	3
Insertion Loss	0.127 dB/ft [0.42 dB/m]
Power Handling, Watts	400
Frequency 5	
Frequency, GHz	5
Insertion Loss	0.166 dB/ft [0.54 dB/m]
Power Handling, Watts	300
Frequency 6	
Frequency, GHz	10
Insertion Loss	0.24 dB/ft [0.79 dB/m]
Power Handling, Watts	220
Frequency 7	
Frequency, GHz	18
Insertion Loss	0.33 dB/ft [1.08 dB/m]
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	N Male Right Angle
Configuration	Right Angle
Inner Conductor Material and Plating	Beryllium Copper, Gold
Inner Conductor Plating Specification	ASTM-B488, 50µ In. Minimum
Outer Conductor Material and Plating	Passivated Stainless Steel
Outer Conductor Plating Specification	SAE-AMS-2701
Coupling Nut Material and Plating	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2701
Hex Size, Inch	3/4
Torque, in-lbs [Nm]	14 [1.58]
Body Material and Plating	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2701
Dielectric Type	PTFE

Temperature

Temperature Operating Range, deg C	-55 to +125
Diameter, in [mm]	1.14 [28.96]
Weight, lbs [g]	0.115 [52.16]
Repeated Minimum Bend Radius, in [mm]	1 [25.4]

Compliance Certifications (visit 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 Male Right Angle Low Loss Test Cable 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-male-pe-p142ll-cable-assembly-pe345-p.aspx

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PE345 CAD Drawing

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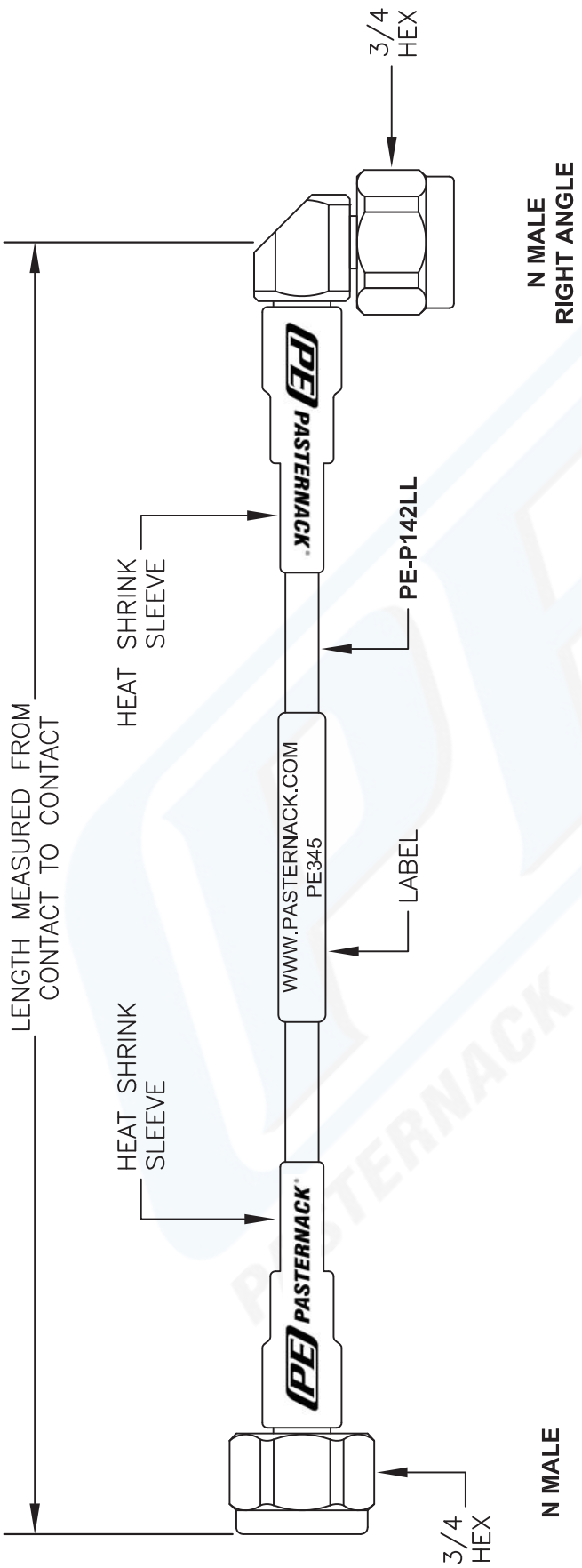

NOTE:
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

How To Order

Part Number Configuration

PE3 [zzz] - [xx] [uu]

- 00 - 99999 — Length
- < Blank > = Inches, CM = Centimeters

Examples

PE3000-100

PE3000-100CM

Part # Ext.	Length In Inches
-12	12"
-24	24"
-36	36"
-48	48"
-60	60"
-xx	Custom Length

Part # Ext.	Length In Centimeters
-25CM	25Cm
-50CM	50Cm
-75CM	75Cm
-100CM	100Cm
-125CM	125Cm
-xxCM	Custom Length

DWG TITLE

PE345

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.

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