



## N Male to N Male Cable Using PE-P142LL Coax

### RF Cable Assemblies Technical Data Sheet

PE343

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: PE-P142LL

#### Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.35:1 to 18 GHz
- Minimum Bend Radius of 1 inch
- 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



#### Description

The PE340 series 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 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Velocity of Propagation		83		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	5	10	18	GHz
Insertion Loss (Max.)	0.1 [0.33]	0.13 [0.43]	0.21 [0.69]	0.3 [0.98]	0.4 [1.31]	dB/ft [dB/m]
Power Handling (Max.)	700	400	300	220	160	Watts

Electrical Specification Notes:

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 Cable Using PE-P142LL Coax PE343](#)



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Power handling values are calculated based on Cable properties. Power handling will vary based on the actual VSWR of the cable assembly.

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as .05dB x SQRT (Frequency GHz) per connector.

#### Mechanical Specifications

##### Cable Assembly

Diameter 0.822 in [20.88 mm]

Weight 0.12 lbs [54.43 g]

##### Cable

Cable Type PE-P142LL  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PTFE  
Number of Shields 3  
Shield Layer 1 Silver Plated Copper Tape  
Shield Layer 2 Aluminum Polyester  
Shield Layer 3 Silver Plated Copper Wire  
Jacket Material FEP  
Jacket Diameter 0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488, 50µ Inch.	ASTM-B488, 50µ Inch.
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Outer Conductor Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Hex Size	3/4 Inch	3/4 Inch
Torque	14 in-lbs [1.58 Nm]	14 in-lbs [1.58 Nm]
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

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 Cable Using PE-P142LL Coax PE343](#)



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

For RoHS Compliant version, use PE343LF. Contact Pasternack if product cannot be found.

REACH Compliant

07/19/2006

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

#### How to Order

Part Number Configuration:

PE343

- xx

uu

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE343-12 = 12 inches long cable  
PE343-100cm = 100 cm long cable

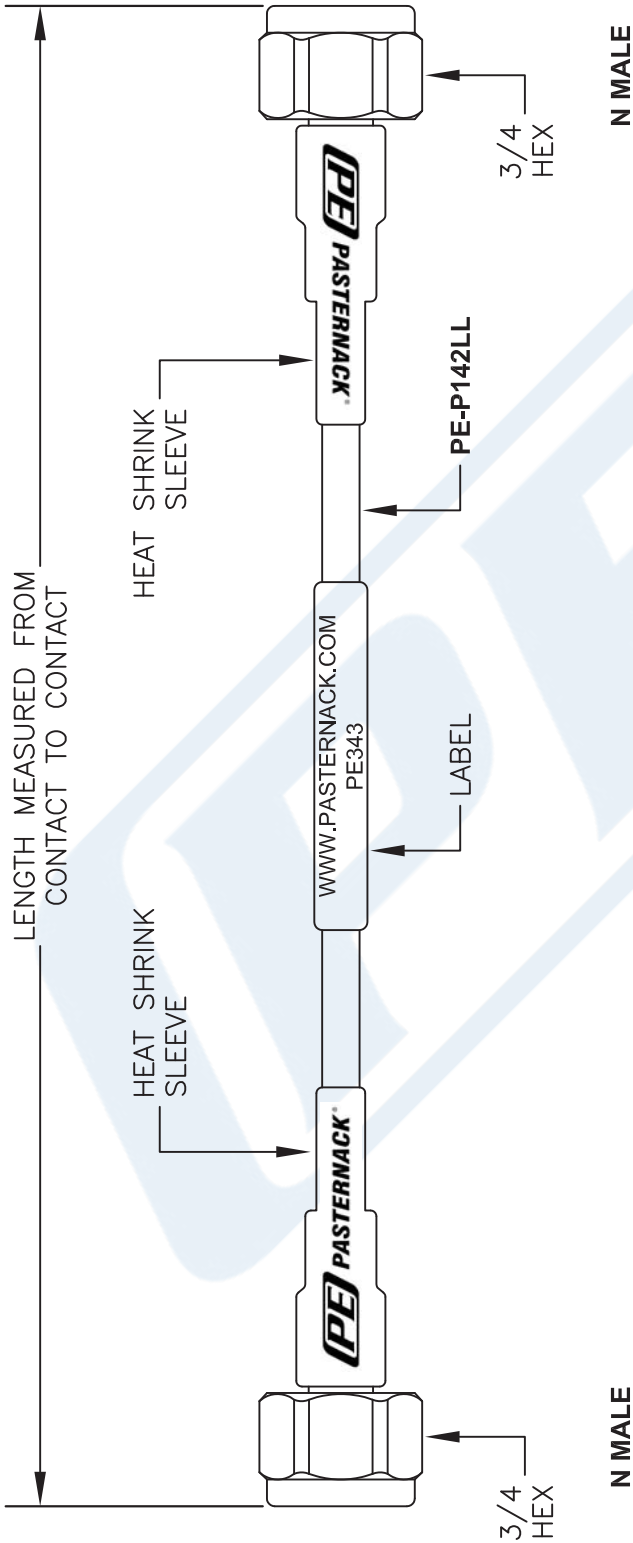
N Male to N Male Cable Using PE-P142LL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 Cable Using PE-P142LL Coax PE343](#)

URL: <http://www.pasternack.com/n-male-n-male-pe-p142ll-cable-assembly-pe343-p.aspx>

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 does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE343 CAD Drawing  
N Male to N Male Cable Using PE-P142LL Coax



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
Part Number Configuration PE3 [zzz] - [xx] [uu]  00 - 99999  CM = Centimeters < Blank > = Inches Length	Examples PE3000-100 PE3000-100CM	-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  
**PE343**

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SCALE N/A

SIZE A

2233