



## TNC Male to N Male Low Loss Cable 120 Inch Length Using PE-P142LL Coax, RoHS

### TECHNICAL DATA SHEET

PE349-120

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 < 1.40:1 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	TNC Male
Connector 2	N Male
Cable Type	PE-P142LL

#### Electrical Specifications

Frequency Range	DC to 18 GHz
Impedance	50 Ohms
Maximum VSWR	1.4:1
Velocity of Propagation	83 %
RF Shielding	95 dB

#### Typical Performance by Frequency

##### Frequency 1

Frequency	400 MHz
Insertion Loss	0 dB
Power Handling, KWatts	1.2

##### Frequency 2

Frequency	1000 MHz
Insertion Loss	0.072 dB
Power Handling	700 Watts

##### Frequency 3

Frequency	2 GHz
Insertion Loss	0.103 dB
Power Handling	500 Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to N Male Low Loss Cable 120 Inch Length Using PE-P142LL Coax, RoHS PE349-120](#)



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**Frequency 4**

Frequency	3 GHz
Insertion Loss	0.127 dB
Power Handling	400 Watts

**Frequency 5**

Frequency	5 GHz
Insertion Loss	0.166 dB
Power Handling	300 Watts

**Frequency 6**

Frequency	10 GHz
Insertion Loss	0.24 dB
Power Handling	220 Watts

**Frequency 7**

Frequency	18 GHz
Insertion Loss	0.33 dB
Power Handling	160 Watts

**Mechanical Specifications**

**Temperature**

Temperature Operating Range	-55 to +125 deg C
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**Size**

Length	120 in [304.8 cm]
Diameter	0.822 in [20.88 mm]
Weight	0.252 lbs [114.31 g]
Repeated Minimum Bend Radius	1 in [25.4 mm]

**Cable**

Cable Type	PE-P142LL
Inner Conductor Type	Solid
Cable Inner Conductor	Copper, Silver
No of Shields	3
Dielectric Type	PTFE
Jacket Material	FEP
Jacket Diameter	0.195 in [4.95 mm]

**Connector 1**

Type	TNC Male
Connector 1 Specification	MIL-STD-348, Figure 313-3
Configuration	Straight
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

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## TNC Male to N Male Low Loss Cable 120 Inch Length Using PE-P142LL Coax, RoHS

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Outer Conductor Plating Specification  
Coupling Nut Material and Plating  
Coupling Nut Plating Specification  
Hex Size  
Body Material and Plating  
Body Plating Specification  
Dielectric Type

SAE-AMS-2700  
Passivated Stainless Steel  
SAE-AMS-2700  
9/16 Inch  
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  
Coupling Nut Material and Plating  
Coupling Nut Plating Specification  
Hex Size  
Torque  
Body Material and Plating  
Dielectric Type

N Male  
Straight  
Beryllium Copper, Gold  
ASTM-B488, 50 $\mu$  Inch.  
Passivated Stainless Steel  
SAE-AMS-2700  
Passivated Stainless Steel  
SAE-AMS-2700  
3/4 Inch  
14 in-lbs [1.58 Nm]  
Passivated Stainless Steel  
PTFE

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)  
RoHS Compliant Yes

#### Plotted and Other Data

Notes:  
• Values at +25 °C, sea level

TNC Male to N Male Low Loss Cable 120 Inch Length Using PE-P142LL Coax, RoHS 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.

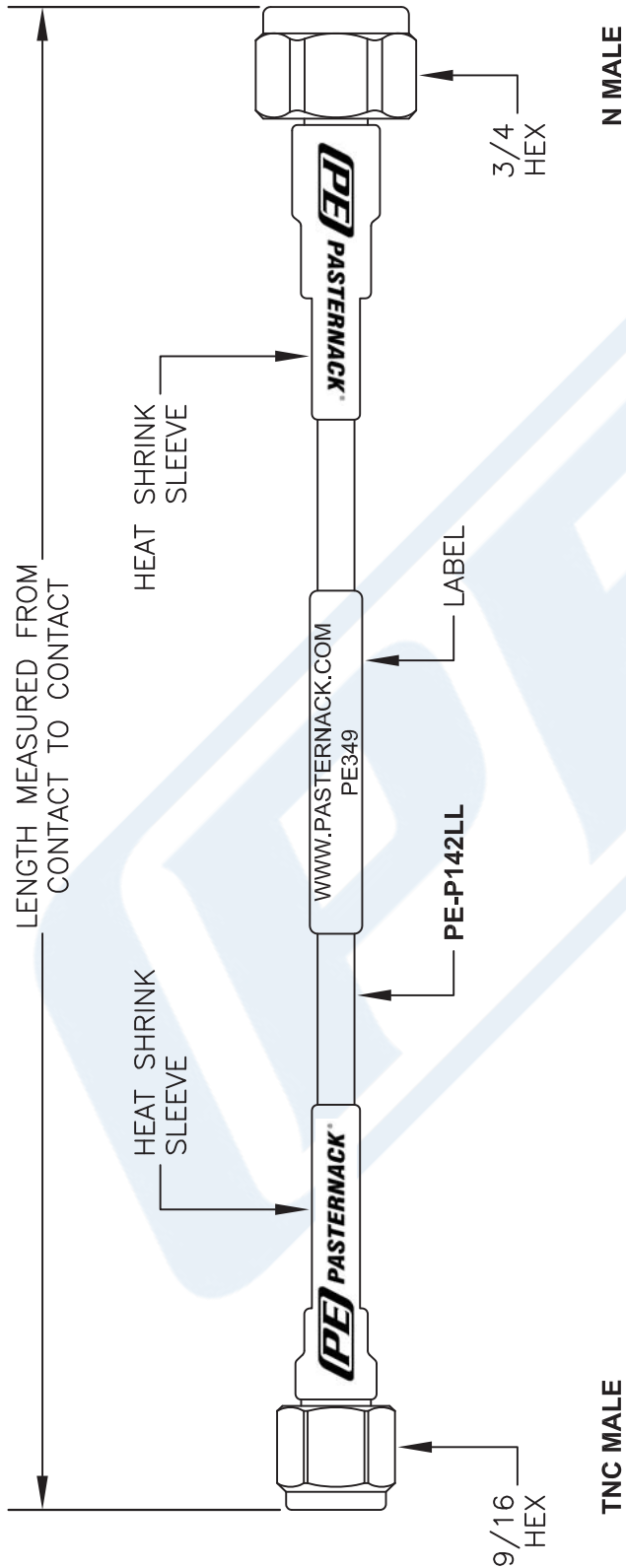
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to N Male Low Loss Cable 120 Inch Length Using PE-P142LL Coax, RoHS PE349-120](http://www.pasternack.com/tnc-male-n-male-pe-p142ll-cable-assembly-pe349-120-p.aspx)

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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.

# PE349-120 CAD Drawing

TNC Male to N Male Low Loss Cable 120 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.

Part Number Configuration		How To Order	
PE3	zzz yy - xx uu	Part # Ext.	Length In Inches
00 - 99999	LF = RoHS Compliant < Blank > = Standard	-12	12"
	CM = Centimeters < Blank > = Inches	-24	24"
	Note: LF applies only to RF cables	-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

- 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

**PE349**

**PE PASTERNAK**  
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SCALE N/A

SIZE A

2233