



TNC Male to N Male Low Loss Cable 48 Inch Length Using PE-P142LL Coax, RoHS

TECHNICAL DATA SHEET

PE349-48

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 48 Inch Length Using PE-P142LL Coax, RoHS PE349-48](#)



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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	48 in [121.92 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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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, 50µ 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 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 48 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.

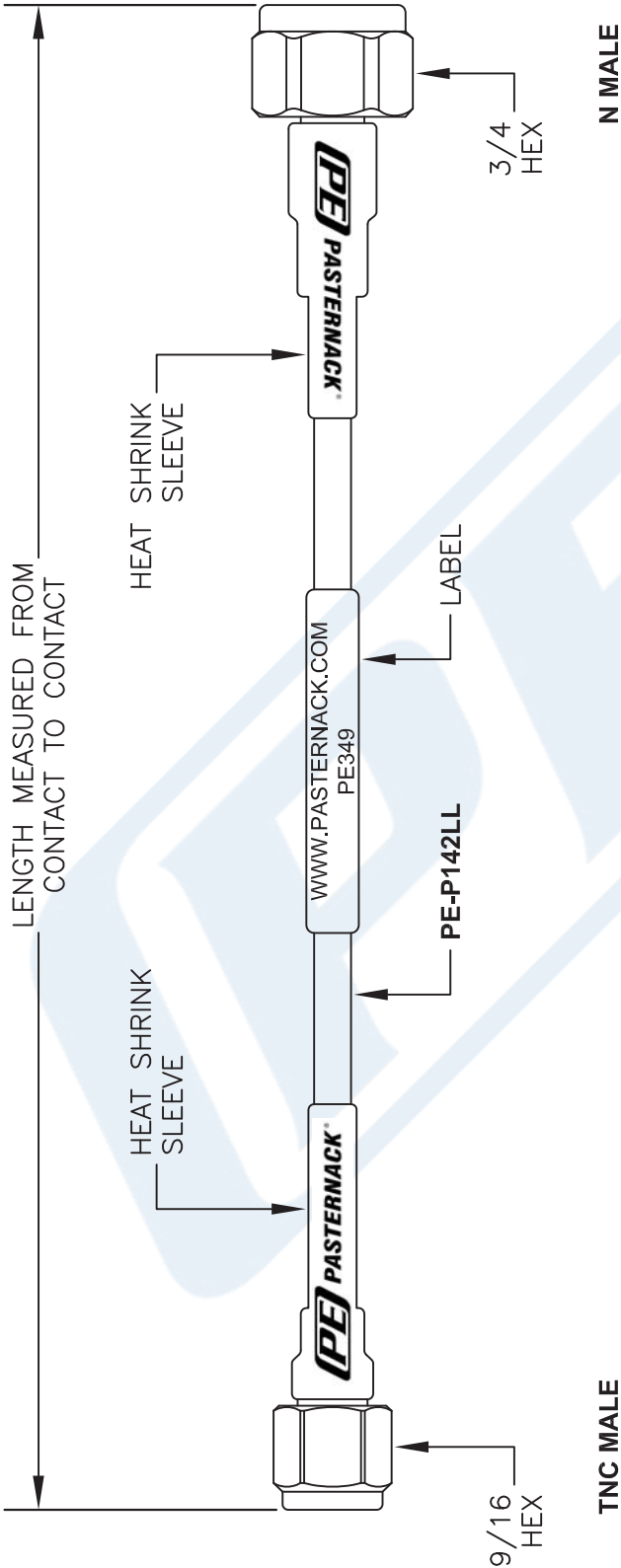
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URL: <http://www.pasternack.com/tnc-male-n-male-pe-p142ll-cable-assembly-pe349-48-p.aspx>

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.

PE349-48 CAD Drawing

TNC Male to N Male Low Loss Cable 48 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>yy</div> - <div>xx</div> <div>uu</div></div> <div>00 - 99999</div> <div>LF = RoHS Compliant < Blank > = Standard</div> <div>Note: LF applies only to RF cables</div> <div>CM = Centimeters < Blank > = Inches</div> <div>Length</div>	Examples	Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
	PE3000LF-100	-12	12"	-25CM	25Cm
	PE3000-100	-24	24"	-50CM	50Cm
	PE3000LF-100CM	-36	36"	-75CM	75Cm
	PE3000-100CM	-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
PE349

Website: www.pasternack.com | E-Mail: sales@pasternack.com

Phone: (949) 261-1920 | Fax: (949) 261-7451

P.O. Box 16759 | Irvine | CA | 92623

Pasternack Enterprises, Inc.

THE ENGINEER'S RF SOURCE

PE PASTERNAK

FSCM NO. 53919

CAD FILE

052914

SCALE N/A

SIZE A

2233