PASTERNACK®
THE ENGINEER'S RF SOURCE

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

TECHNICAL DATA SHEET PE349

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

Frequency 2

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

Frequency 3

Frequency	2 GHz
Insertion Loss	0.103 dB/ft [0.34 dB/m]
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 Using PE-P142LL Coax, RoHS PE349

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	3 GHz
Insertion Loss	0.127 dB/ft [0.42 dB/m]
Power Handling	400 Watts

Frequency 5

Frequency	5 GHz
Insertion Loss	0.166 dB/ft [0.54 dB/m]
Power Handling	300 Watts

Frequency 6

Frequency	10 GHz
Insertion Loss	0.24 dB/ft [0.79 dB/m]
Power Handling	220 Watts

Frequency 7

Frequency	18 GHz
Insertion Loss	0.33 dB/ft [1.08 dB/m]
Power Handling	160 Watts

Mechanical Specifications

Temperature

Temperature Operating Range	-55 to +125 deg C

Size

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
Outer Conductor Plating Specification	SAE-AMS-2700

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

Connector 2

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	3/4 Inch
Torque	14 in-lbs [1.58 Nm]
Body Material and Plating	Passivated Stainless Steel
Dielectric Type	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 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 Using PE-P142LL Coax, RoHS PE349

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

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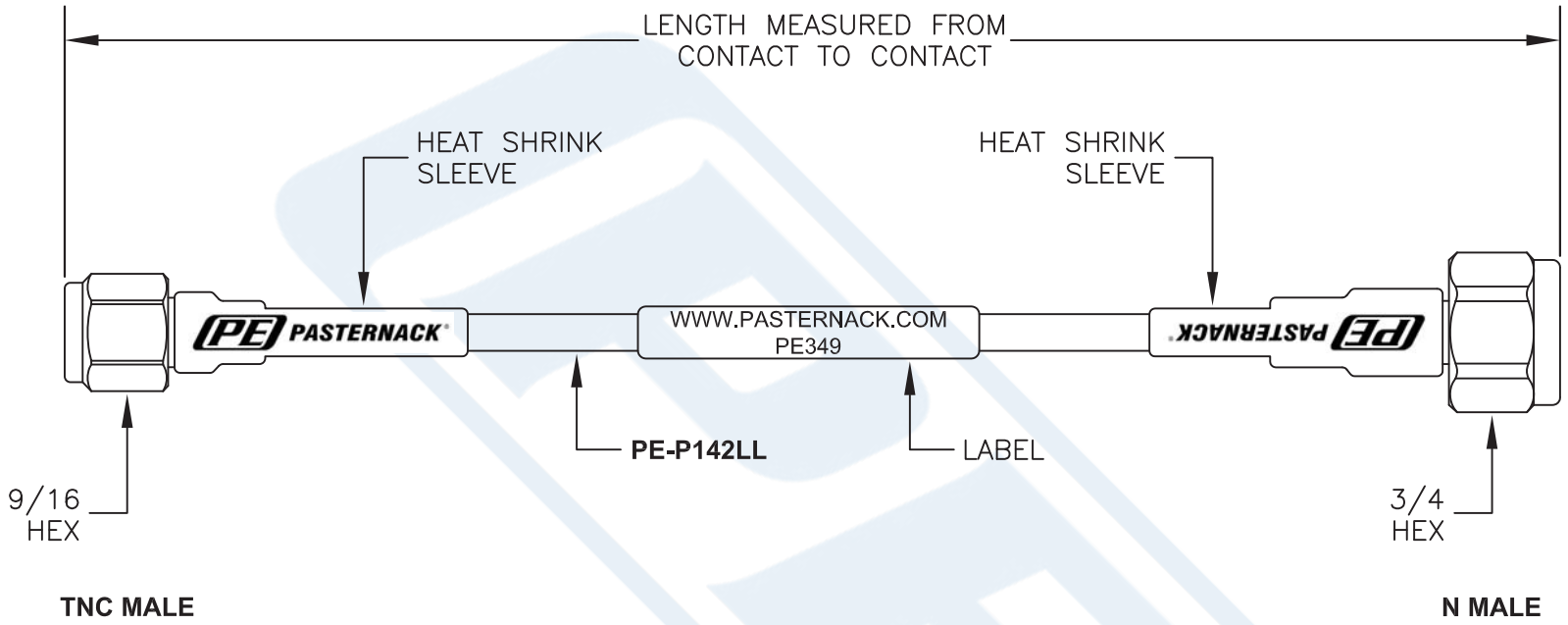
PE349 CAD Drawing

TNC Male to N Male Low Loss Cable 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		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
Part Number Configuration PE3 zzz yy - xx uu 00 - 99999 LF = RoHS Compliant < Blank > = Standard Note: LF applies only to RF cables Length CM = Centimeters < Blank > = Inches	Examples PE3000LF-100 PE3000-100 PE3000LF-100CM 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

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DWG TITLE
PE349

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.

FSCM NO. 53919	CAD FILE 052914	SCALE N/A	SIZE A	2233