



TNC Male to TNC Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder, RoHS

RF Cable Assemblies Technical Data Sheet

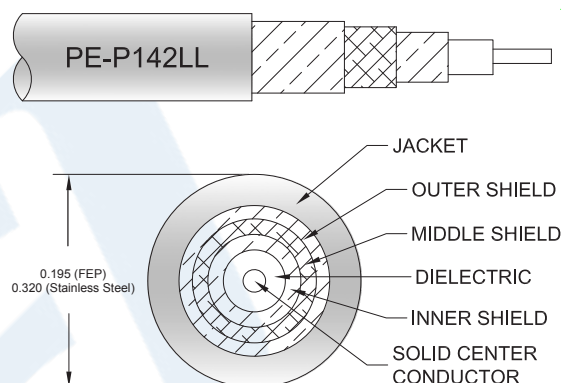
PE346-48

Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male Right Angle
- 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 1.5 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



Description

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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		83		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

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 TNC Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder, RoHS PE346-48](#)



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	2	3	5	GHz
Insertion Loss (Typ.)	0.045	0.072	0.103	0.127	0.166	dB
Power Handling (Max.)	1,200	700	500	400	300	Watts

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 Assembly

Length*	48 in [121.92 cm]
Diameter	1.134 in [28.8 mm]
Weight	0.1536 lbs [69.67 g]

Cable

Cable Type	PE-P142LL
Impedance	50 Ohms
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, Green
Jacket Diameter	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male Right Angle
Specification	MIL-STD-348, Figure 313-3	MIL-STD-348, Figure 313-3
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488, 50μ In. Minimum	ASTM-B488, 50μ In. Minimum
Dielectric Type	PEI	PTFE
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Outer Conductor Plating Specification	SAE-AMS-2701	SAE-AMS-2701
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2701	SAE-AMS-2701
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2701	SAE-AMS-2701
Hex Size	9/16 Inch	9/16 Inch

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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How to Order

Part Number Configuration:

PE346

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

Example: PE346-12 = 12 inches long cable
PE346-100cm = 100 cm long cable

TNC Male to TNC Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder, 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.

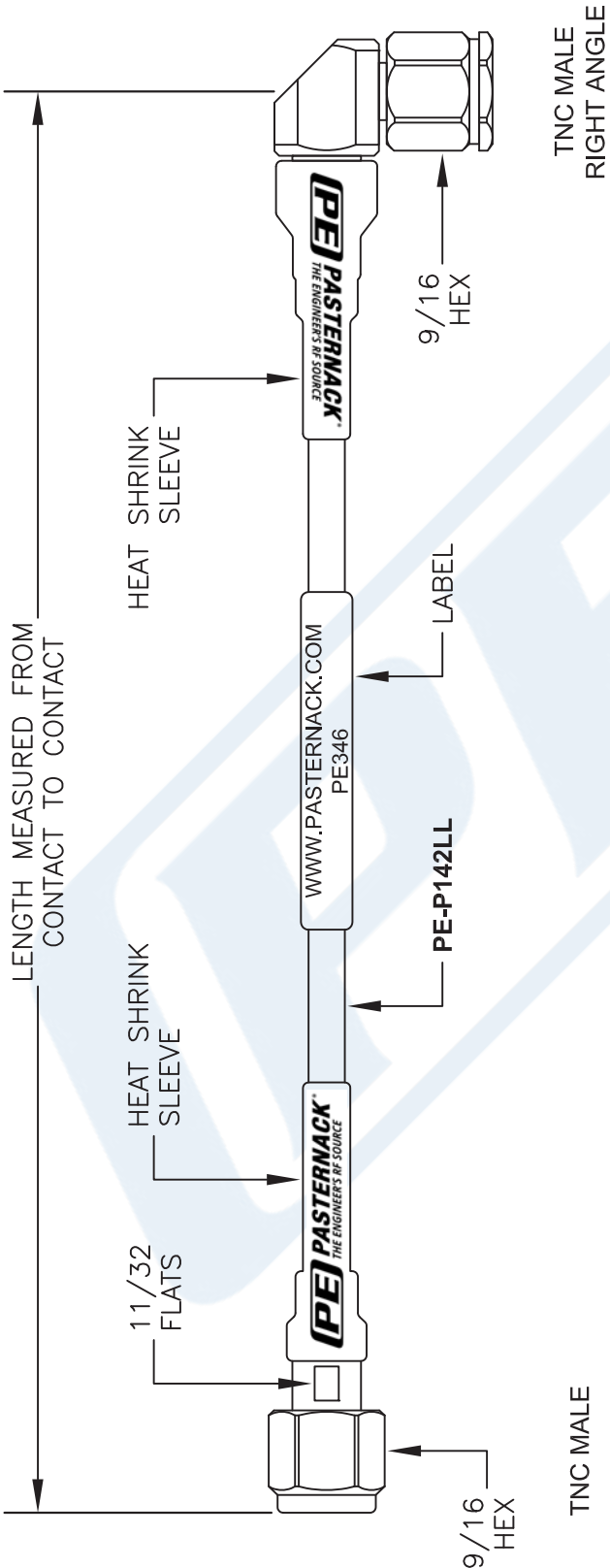
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URL: <https://www.pasternack.com/tnc-male-tnc-male-pe-p142ll-cable-assembly-pe346-48-p.aspx>

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.

PE346-48 CAD Drawing

TNC Male to TNC Male Right Angle Low Loss Test Cable 48 Inch Length
Using PE-P142LL Coax with HeatShrink, LF Solder, RoHS



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

PE PASTERNAK
THE ENGINEER'S RF SOURCE
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DWG TITLE
PE346

CAGE CODE 53919

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].

CAD FILE 011017

SCALE N/A

SIZE A

2233