



## TNC Male to TNC Female Bulkhead Low Loss Test Cable 100 CM Length Using PE-P142LL Coax, RoHS

### TECHNICAL DATA SHEET

PE348-100CM

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 < 1.35:1 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

#### Configuration

Connector 1	TNC Male
Connector 2	TNC Female Bulkhead
Cable Type	PE-P142LL

#### Electrical Specifications

Frequency Range, GHz	DC to 18
Impedance, Ohms	50
Maximum VSWR	1.35:1
Velocity of Propagation, %	83
RF Shielding, dB	95

#### Typical Performance by Frequency

##### Frequency 1

Frequency, MHz	400
Insertion Loss	0.045 dB [0.15 dB]
Power Handling, KWatts	1.2

##### Frequency 2

Frequency, MHz	1000
Insertion Loss	0.072 dB [0.24 dB]
Power Handling, Watts	700

##### Frequency 3

Frequency, GHz	2
Insertion Loss	0.103 dB [0.34 dB]
Power Handling, Watts	500

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 Female Bulkhead Low Loss Test Cable 100 CM Length Using PE-P142LL Coax, RoHS PE348-100CM](#)

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.



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#### Frequency 4

Frequency, GHz	3
Insertion Loss	0.127 dB [0.42 dB ]
Power Handling, Watts	400

#### Frequency 5

Frequency, GHz	5
Insertion Loss	0.166 dB [0.54 dB ]
Power Handling, Watts	300

#### Frequency 6

Frequency, GHz	10
Insertion Loss	0.24 dB [0.79 dB ]
Power Handling, Watts	220

#### Frequency 7

Frequency, GHz	18
Insertion Loss	0.33 dB [1.08 dB ]
Power Handling, Watts	160

#### 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

Cable Type	PE-P142LL
No of Shields	3
Dielectric Type	PTFE
Jacket Material	FEP
Cable Color	Green
Jacket Diameter, in [mm]	0.195 [4.95]

#### 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-2701
Coupling Nut Material and Plating	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2701
Hex Size, Inch	9/16
Body Material and Plating	Passivated Stainless Steel

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Body Plating Specification  
Dielectric Type

SAE-AMS-2701  
PEI

**Connector 2**

Type  
Connector 2 Specification  
Configuration  
Mount Method  
Inner Conductor Material and Plating  
Inner Conductor Plating Specification  
Outer Conductor Material and Plating  
Outer Conductor Plating Specification  
Body Material and Plating  
Body Plating Specification  
Dielectric Type

TNC Female Bulkhead  
MIL-STD-348, Figure 313-4  
Straight  
Bulkhead  
Beryllium Copper, Gold  
ASTM-B488, 50µ In. Minimum  
Passivated Stainless Steel  
SAE-AMS-2700  
Passivated Stainless Steel  
SAE-AMS-2700  
PEI

**Temperature**

Temperature Operating Range, deg C

-55 to +125

**Size**

Length, in [cm]  
Diameter, in [mm]  
Weight, lbs [g]  
Repeated Minimum Bend Radius, in [mm]

39.37 [100]  
0.625 [15.88]  
0.4 [181.44]  
1 [25.4]

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

RoHS Compliant  
REACH Compliant

Yes  
07/19/2006

**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

TNC Male to TNC Female Bulkhead Low Loss Test Cable 100 CM Length Using PE-P142LL Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

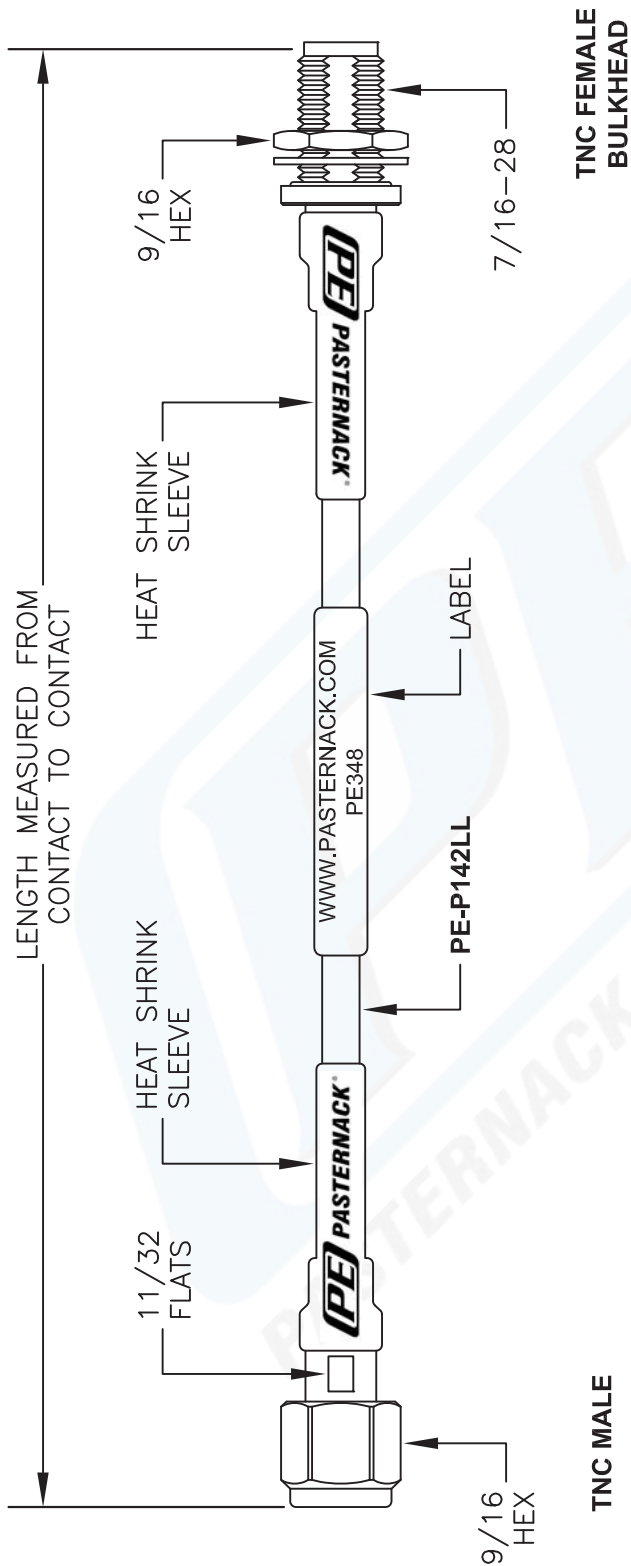
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to TNC Female Bulkhead Low Loss Test Cable 100 CM Length Using PE-P142LL Coax, RoHS PE348-100CM](http://www.pasternack.com/tnc-male-tnc-female-pe-p142ll-cable-assembly-pe348-100cm-p.aspx)

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# PE348-100CM CAD Drawing

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**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] - [XX] [UU]	Part # Ext.	Length In Centimeters
00 - 999999	< Blank > = Inches Length	-12	-25CM
		-24	50CM
		-36	75CM
		-48	100CM
		-60	125CM
		-XX	Custom Length
Examples		Length In Inches	Part # Ext.
PE3000-100		12"	-25CM
PE3000-100CM		24"	-50CM
		36"	-75CM
		48"	-100CM
		60"	-125CM
		Custom Length	-XXCM

- 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  
**PE348**

**PE PASTERNAK**  
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FSCM NO. 53919	CAD FILE 091713	SCALE N/A	SIZE A	2233
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