



TNC Male to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

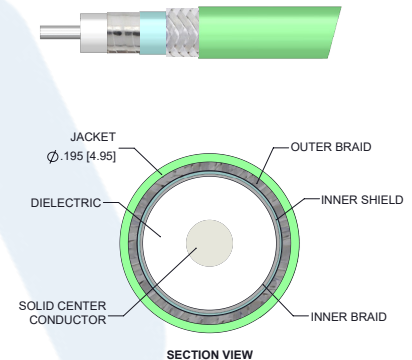
PE348/RDHS

Configuration

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

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE348/RDHS TNC male to TNC female bulkhead cable using PE-P142LL coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack TNC to TNC cable assembly has a male to female gender configuration with 50 ohm flexible PE-P142LL coax. The PE348/RDHS TNC male to TNC female cable assembly operates to 18 GHz. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 95 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

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 Cable Using PE-P142LL Coax with HeatShrink PE348/RDHS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.082	0.118	0.138	0.257	0.376	dB/ft
	0.27	0.39	0.45	0.84	1.23	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05 \times \text{SQRT}(f\text{GHz})$ dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.114 lbs [51.71 g]

Cable

Cable Type PE-P142LL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 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, Red
 Jacket Diameter 0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

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 Cable Using PE-P142LL Coax with HeatShrink PE348/RDHS](#)



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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Female Bulkhead
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PEI	PEI
Outer Conductor Material and Plating		Passivated Stainless Steel
Outer Conductor Plating Specification		SAE-AMS-2700
Body Material and Plating	Passivated Stainless Steel	
Body Plating Specification	SAE-AMS-2700	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	9/16 Inch	
Torque	12 in-lbs [1.36 Nm]	

Environmental Specifications

Temperature

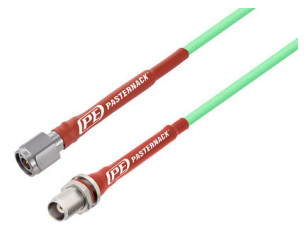
Operating Range -55 to +165 deg C

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

Plotted and Other Data

Notes:

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 Cable Using PE-P142LL Coax with HeatShrink PE348/RDHS](#)



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PE348/RDHS

How to Order

Part Number Configuration:

PE348/RDHS - xx

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

Example: PE348/RDHS-12 = 12 inches long cable
 PE348/RDHS-100cm = 100 cm long cable

TNC Male to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

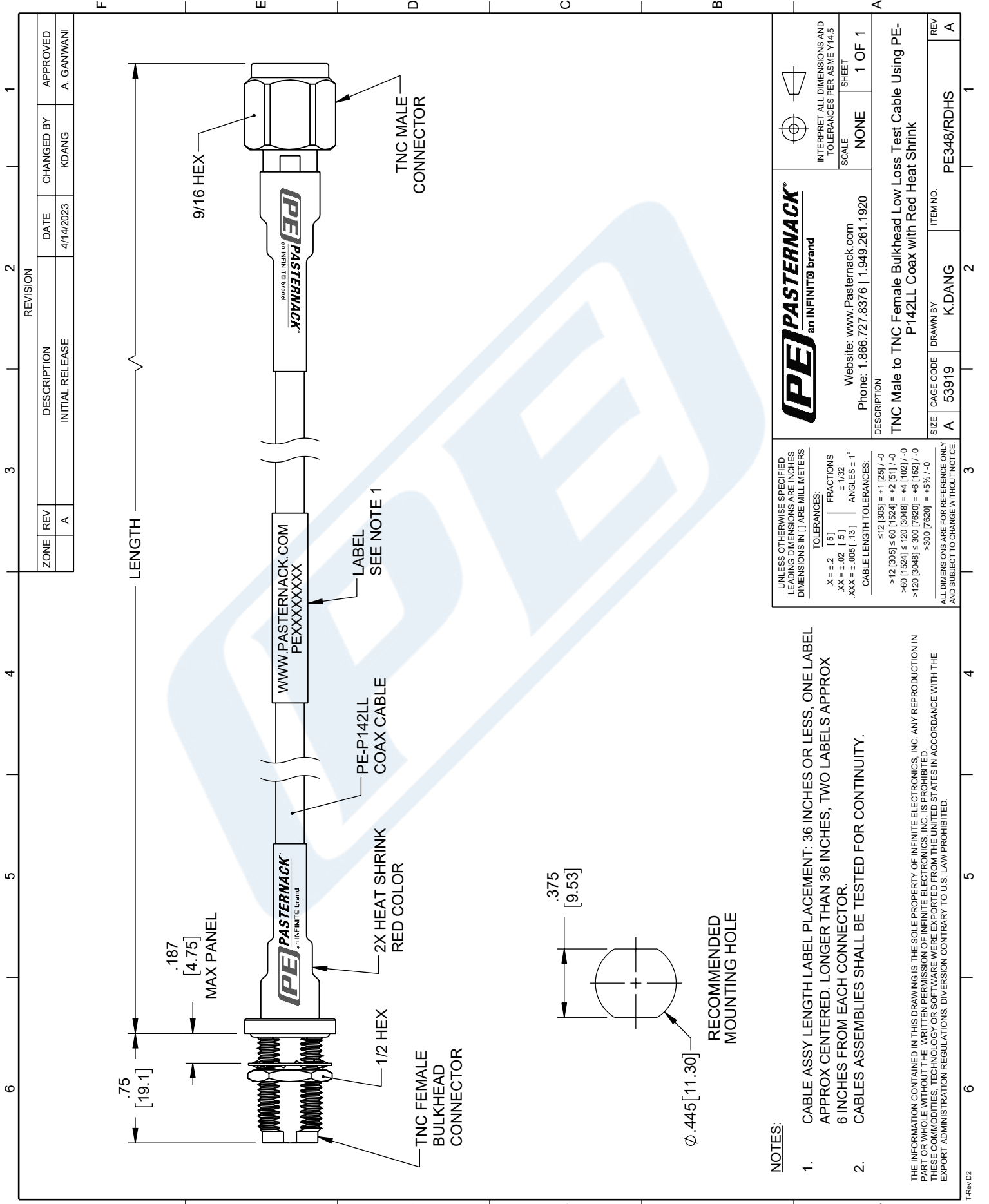
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URL: <https://www.pasternack.com/tnc-male-to-tnc-female-bulkhead-low-loss-cable-using-pe-p142ll-with-heatshrink-pe348-rdhs-p.aspx>

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PE348/RDHS CAD Drawing

TNC Male to TNC Female Bulkhead Low Loss Cable
Using PE-P142LL Coax with HeatShrink



NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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X = ±.2 [5]	FRACTIONS ± 1/32	SHEET	1 OF 1
.XX = ±.02 [.5]	ANGLES ± 1°	DESCRIPTION	
.XXX = ±.005 [.13]	CABLE LENGTH TOLERANCES:	TNC Male to TNC Female Bulkhead Low Loss Test Cable Using PE-P142LL Coax with Red Heat Shrink	
	≤12 [305] = +1 [25] / -0	Website: www.Pasternack.com	
	>12 [305] ≤ 60 [1524] = -2 [51] / -0	Phone: 1.866.727.8376 1.949.261.1920	
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