

TNC Male to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax with Lock Wire Holes

PE3C11113

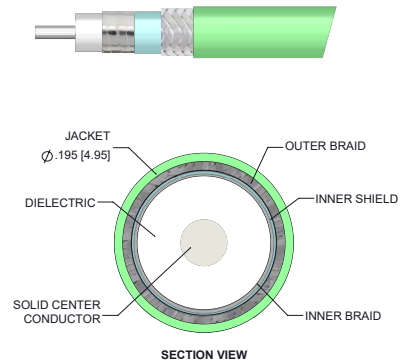


Configuration

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

Features

- Max Frequency 18 GHz
- 80% Phase Velocity
- Triple Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C11113 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 PE3C11113 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.

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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.5:1	
Velocity of Propagation		80		%
Capacitance		25 [82.02]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C11113	Custom Lengths Available	Insertion Loss (Typ.)	0.075	0.107	0.162	0.233	0.342	dB/ft	
			0.25	0.36	0.54	0.77	1.13	dB/m	
PE3C11113-12	12 In	Insertion Loss (Typ.)	0.17	0.24	0.36	0.51	0.73	dB	0.113
PE3C11113-24	24 In	Insertion Loss (Typ.)	0.24	0.35	0.52	0.74	1.07	dB	0.152
PE3C11113-36	36 In	Insertion Loss (Typ.)	0.32	0.45	0.68	0.97	1.41	dB	0.19
PE3C11113-48	48 In	Insertion Loss (Typ.)	0.39	0.56	0.84	1.21	1.75	dB	0.228
PE3C11113-60	60 In	Insertion Loss (Typ.)	0.47	0.67	1.01	1.44	2.1	dB	0.266

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.04*SQRT(FGHz) dB

Loss due to Connector 2: 0.05*SQRT(FGHz) dB

Base Weight: 0.113 pounds

Additional Weight per Inch: 0.00317 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter

0.5 in [12.7 mm]

Weight

0.113 lbs [51.26 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, Green

Jacket Diameter

0.195 in [4.95 mm]

Repeated Minimum Bend Radius

0.975 in [24.77 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Female Bulkhead
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification		SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	
Torque	12 in-lbs 1.36 Nm	

Environmental Specifications

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

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration:

PE3C11113

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- Unit of Measure:
cm = Centimeters
<blank> = Inches

- Length

- Base Number

Example: PE3C11113-12 = 12 inches long cable
PE3C11113-100cm = 100 cm long cable

TNC Male to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax with Lock Wire Holes 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.

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 Lock Wire Holes PE3C11113](#)

URL: <https://www.pasternack.com/tnc-male-to-tnc-female-bulkhead-low-loss-cable-using-pe-p142ll-pe3c11113-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C11113 CAD Drawing
TNC Male to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax with Lock Wire Holes

