

# TNC Female Bulkhead to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS



# **RF Cable Assemblies Technical Data Sheet**

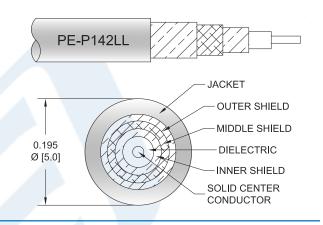
PE3C2180

# Configuration

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

### **Features**

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.45:1 to 18 GHz
- · Minimum Bend Radius of 1 inch
- Operating Temperature range of -55 to +125°C
- · ROHS and REACH Compliant
- Same day shipment of custom lengths



# **Description**

The PE3C2180 series 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 PE3C2180 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			1.45:1	
Return Loss	14.72			dB
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 Female Bulkhead to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS PE3C2180

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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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.1	0.14	0.2	0.29	0.4	dB/ft
	[0.33]	[0.46]	[0.66]	[0.95]	[1.31]	[dB/m]
Insertion Loss (Typ.)	0.07	0.1	0.16	0.23	0.33	dB/ft
	[0.23]	[0.33]	[0.52]	[0.75]	[1.08]	[dB/m]

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.05dB x vFrequency (GHz) per connector.

### **Mechanical Specifications**

**Cable Assembly** 

0.625 in [15.88 mm] Diameter

0.188 lbs [85.28 g] Weight

Cable

Cable Type PE-P142LL 50 Ohms **Impedance** Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver

Dielectric Type **PTFE** Number of Shields 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

One Time Minimum Bend Radius 1 in [25.4 mm]

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0.195 in [4.95 mm]

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### **Connectors**

Connector 1	Connector 2 TNC Female Bulkhead	
TNC Female Bulkhead		
MIL-STD-348	MIL-STD-348	
50 Ohms	50 Ohms	
Beryllium Copper, Gold	Beryllium Copper, Gold	
ASTM-B488, 50µ In. Minimum	m ASTM-B488, 50µ In. Minimu	
PEI	PEI	
Passivated Stainless Steel	Passivated Stainless Steel	
SAE-AMS-2700	SAE-AMS-2700	
Passivated Stainless Steel	Passivated Stainless Steel	
SAE-AMS-2700	SAE-AMS-2700	
	TNC Female Bulkhead  MIL-STD-348  50 Ohms  Beryllium Copper, Gold  ASTM-B488, 50µ In. Minimum  PEI  Passivated Stainless Steel  SAE-AMS-2700  Passivated Stainless Steel	

# **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes

REACH Compliant 12/17/2015

### **Plotted and Other Data**

Notes:

· Values at 25°C, sea level.

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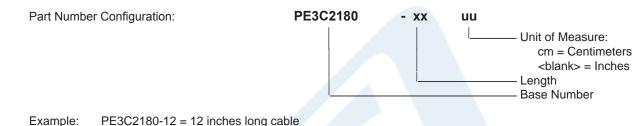
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#### **How to Order**



TNC Female Bulkhead to TNC Female Bulkhead 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 Female Bulkhead to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS PE3C2180

URL: https://www.pasternack.com/tnc-female-tnc-female-pe-p142ll-cable-assembly-pe3c2180-p.aspx

PE3C2180-100cm = 100 cm long cable

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.

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PE3C2180 CAD Drawing
TNC Female Bulkhead to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS

