

TNC Female Bulkhead to TNC Female Bulkhead Low Loss Cable 50 cm Length Using PE-P142LL Coax, RoHS



# **RF Cable Assemblies Technical Data Sheet**

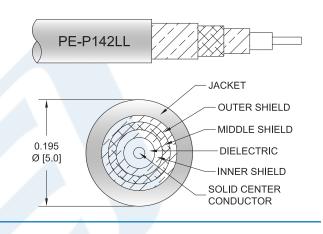
# PE3C2180-50CM

#### 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**

18 GHz
1.45:1
dB
%
dB
pF/ft [pF/m]
)2

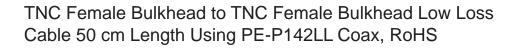
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: TNC Female Bulkhead to TNC Female Bulkhead Low Loss Cable 50 cm Length Using PE-P142LL Coax, RoHS PE3C2180-50CM

ISO 9001 : 2008 Registered

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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# CONTROL DATA

# PE3C2180-50CM

# Specifications by Frequency Description F1 F2 F3

F1	F2	F3	F4	F5	Units
1	2	4.5	9	18	GHz
0.58	0.64	0.74	0.88	1.06	dB
0.53	0.58	0.67	0.78	0.94	dB
		1         2           0.58         0.64	1         2         4.5           0.58         0.64         0.74	1         2         4.5         9           0.58         0.64         0.74         0.88	1         2         4.5         9         18           0.58         0.64         0.74         0.88         1.06

#### **Mechanical Specifications**

Cable Assembly Length Diameter

Weight

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Shield Layer 3 Jacket Material Jacket Diameter

One Time Minimum Bend Radius

19.69 in [500.13 mm] 0.625 in [15.88 mm]

0.24 lbs [108.86 g]

PE-P142LL 50 Ohms Solid Copper, Silver PTFE 3 Silver Plated Copper Tape Aluminum Polyester Silver Plated Copper Wire FEP, Green 0.195 in [4.95 mm]

1 in [25.4 mm]

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#### Connectors

Description	Connector 1	Connector 2	
Туре	TNC Female Bulkhead	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	
Contact Plating Specification	ASTM-B488, 50µ In. Minimum	ASTM-B488, 50µ In. Minimum	
Dielectric Type	PEI	PEI	
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Outer Conductor Plating Specification	SAE-AMS-2700	SAE-AMS-2700	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700	

#### **Environmental Specifications**

Temperature Operating Range

-55 to +125 deg C

12/17/2015

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

REACH Compliant

#### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

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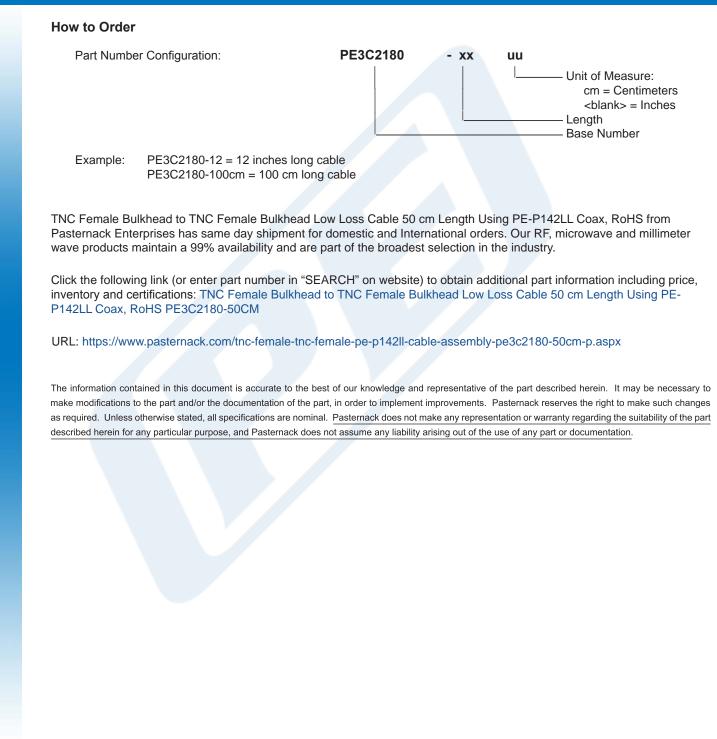




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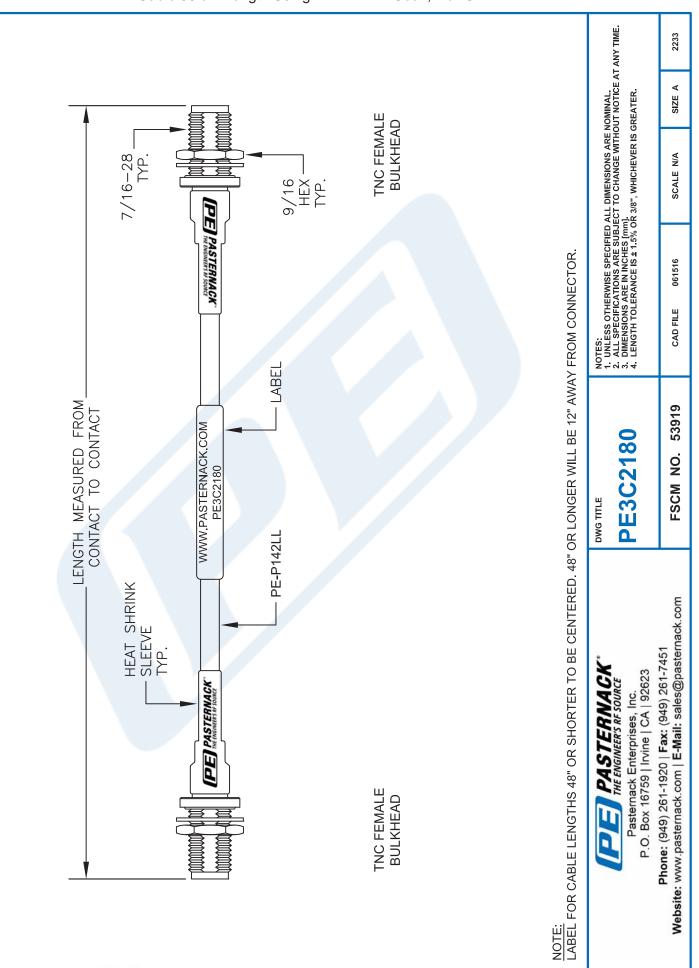
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### PE3C2180-50CM CAD Drawing TNC Female Bulkhead to TNC Female Bulkhead Low Loss

Cable 50 cm Length Using PE-P142LL Coax, RoHS