



RF Cable Assemblies Technical Data Sheet

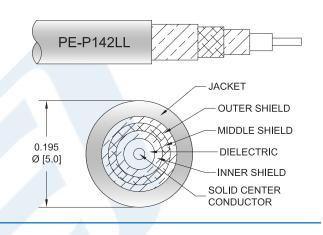
PE3C2180-36

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 36 Inch Length Using PE-P142LL Coax, RoHS PE3C2180-36

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

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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.)	0.72	0.84	1.02	1.29	1.62	dB
Insertion Loss (Typ.)	0.63	0.72	0.9	1.11	1.41	dB

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

36 in [914.4 mm] 0.625 in [15.88 mm]

0.3 lbs [136.08 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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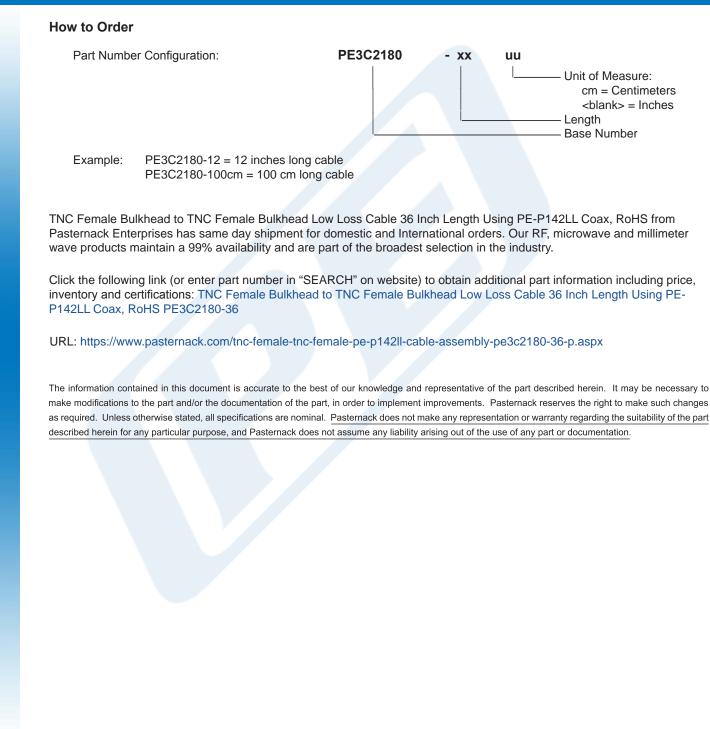
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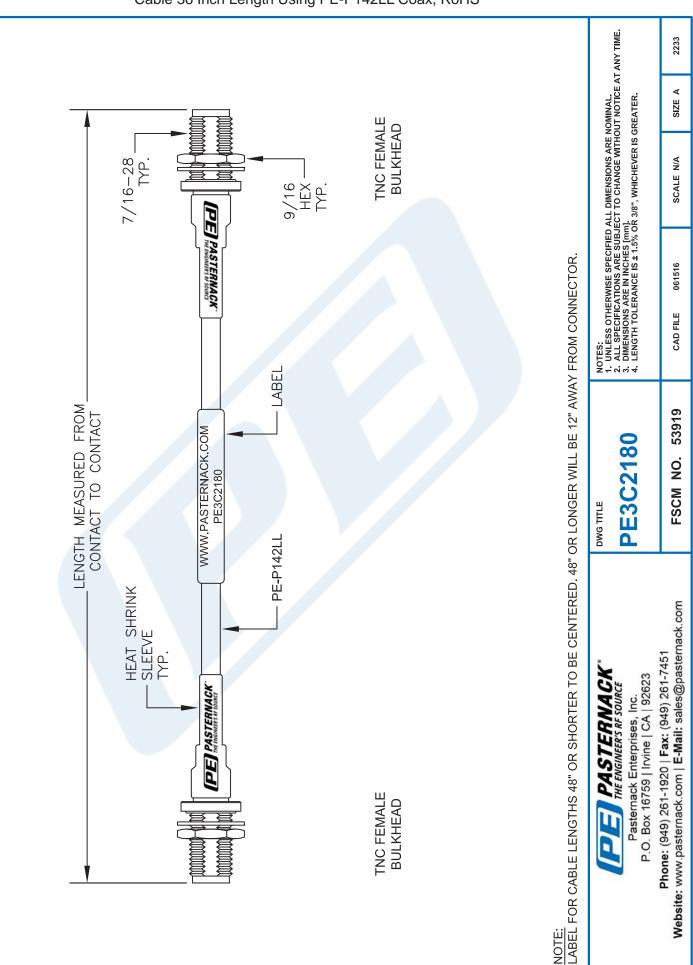
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PE3C2180-36 CAD Drawing TNC Female Bulkhead to TNC Female Bulkhead Low Loss

Cable 36 Inch Length Using PE-P142LL Coax, RoHS