



RF Cable Assemblies Technical Data Sheet

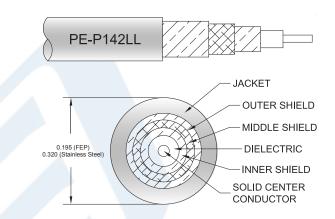
PE3C2449-48

Configuration

- · Connector 1: SMA 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 83% Velocity of Propagation
- Maximum VSWR is < 1.40:1 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



Applications

· General Purpose

· Laboratory Use

Description

The PE3C2449 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 PE3C2449 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			1.4:1	
Return Loss			15.56	dB
Insertion Loss			2.02	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: SMA Male to TNC Female Bulkhead Low Loss Cable 48 Inch Length Using PE-P142LL Coax, RoHS PE3C2449-48

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.)	0.82	0.98	1.22	1.58	2.02	dB
Insertion Loss (Typ.)	0.7	0.82	1.06	1.34	1.74	dB
Power Handling (Max.)	820	600	350	250	175	W

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm]
Diameter 0.625 in [15.88 mm]

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

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	SMA 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		
Contact Plating Specification	ASTM-B488 50µ In. Min	ASTM-B488, 50µ In. Min		
Dielectric Type	PTFE	PEI		
Outer Conductor Material and Plating		Passivated Stainless Steel		
Outer Conductor Plating Specification		SAE-AMS-2700		
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700		
Coupling Nut Material and Plating	Passivated Stainless Steel			
Coupling Nut Plating Specification	SAE-AMS-2700			
Hex Size	5/16 Inch			
Torque	8 in-lbs [0.9 Nm]			

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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How to Order



Example: PE3C2449-12 = 12 inches long cable PE3C2449-100cm = 100 cm long cable

SMA Male to TNC Female Bulkhead Low Loss Cable 48 Inch Length 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 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/sma-male-tnc-female-pe-p142ll-cable-assembly-pe3c2449-48-p.aspx

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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PE3C2449-48 CAD DrawingSMA Male to TNC Female Bulkhead Low Loss Cable 48 Inch Length Using PE-P142LL Coax, RoHS

