



RF Cable Assemblies Technical Data Sheet

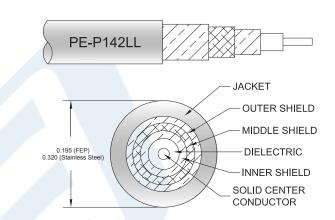
PE3C2449-48

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

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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 PE-P142LL
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silv

Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Shield Layer 1

Copper, Silver

PTFE

3

Silver Plated C

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]

One Time Minimum Bend Radius 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.

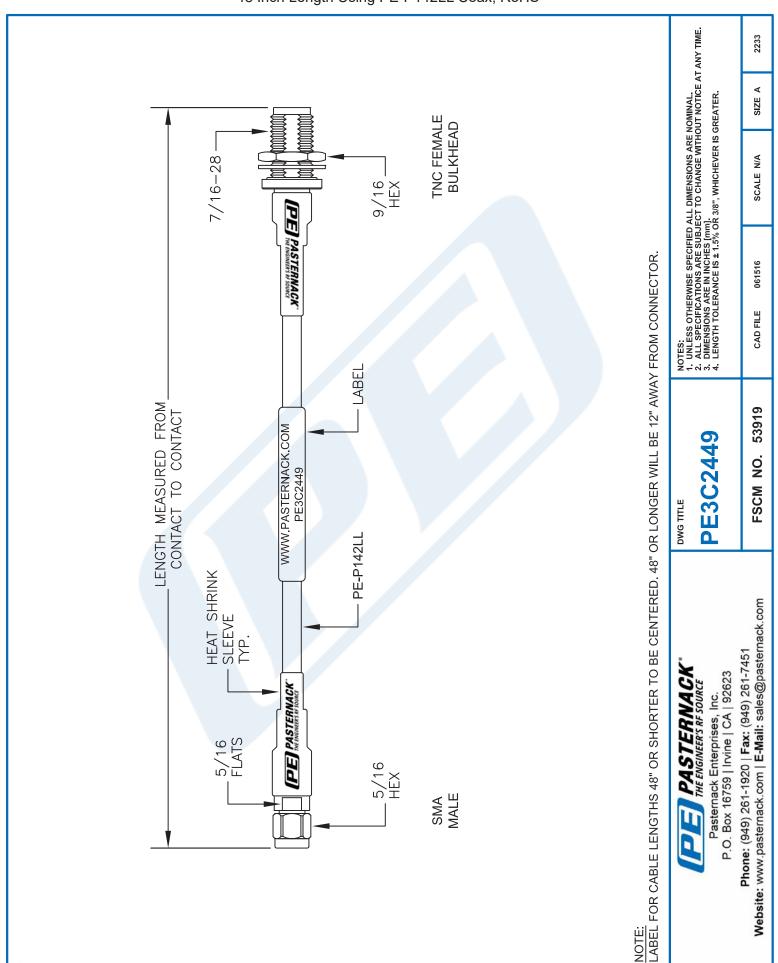
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URL: https://www.pasternack.com/sma-male-tnc-female-pe-p142ll-cable-assembly-pe3c2449-48-p.aspx

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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pasternack:

PE3C2449-48