

SMA Male to TNC Male Right Angle Low Loss Cable 48 Inch Length Using PE-P142LL Coax, RoHS



RF Cable Assemblies Technical Data Sheet

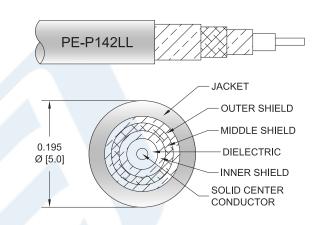
PE3C0780-48

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male Right Angle
- Cable Type: PE-P142LL

Features

- 83% Velocity of Propagation
- Shielding effectiveness >95 dB
- Maximum VSWR is < 1.50:1 to 18 GHz
- . Minimum Bend Radius of 1 inch
- Operating Temperature range of -55 to +125 °C
- · RoHS and REACH Compliant
- · Same day shipment and customs lengths
- 100% Continuity, Hi-Pot, and RF tested



Description

The PE3C0780 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 PE3C0780 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			1.5:1	
Return Loss	13.98			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 Male Right Angle Low Loss Cable 48 Inch Length Using PE-P142LL Coax, RoHS PE3C0780-48

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.)	0.82	0.98	1.22	1.58	2.02	dB
Insertion Loss (Typ.)	0.7	0.82	1.06	1.34	1.74	dB

Mechanical Specifications

Cable Assembly

 Length
 48 in [121.92 cm]

 Diameter
 1.134 in [28.8 mm]

 Weight
 0.34 lbs [154.22 g]

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 Male Right Angle	
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	PTFE	PTFE	
Outer Conductor Material and Plating	Passivated Stainless S		
Outer Conductor Plating Specification		SAE-AMS-2701	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2701	
Hex Size	5/16 Inch	9/16 Inch	
Torque	8 in-lbs [0.9 Nm]		
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2701	

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

RoHS Compliant Y

REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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How to Order



Example: PE3C0780-12 = 12 inches long cable PE3C0780-100cm = 100 cm long cable

SMA Male to TNC Male Right Angle 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% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/sma-male-tnc-male-pe-p142ll-cable-assembly-pe3c0780-48-p.aspx

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PE3C0780-48 CAD Drawing

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