

SMA Male Right Angle to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS



RF Cable Assemblies Technical Data Sheet

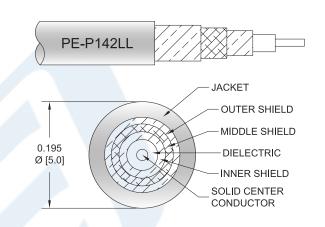
PE3C1173

Configuration

- Connector 1: SMA Male Right AngleConnector 2: TNC Female Bulkhead
- Cable Type: PE-P142LL

Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR < 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
- 100% Continuity, Hi-Pot, and RF tested



Description

The PE3C1173 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 PE3C1173 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			1.45:1	
Return Loss	14.72			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 Right Angle to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS PE3C1173

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

F1	F2	F3	F4	F5	Units
1	2	4.5	9	18	GHz
0.1	0.14	0.2	0.29	0.4	dB/ft
[0.33]	[0.46]	[0.66]	[0.95]	[1.31]	[dB/m]
0.07	0.1	0.16	0.23	0.33	dB/ft
[0.23]	[0.33]	[0.52]	[0.75]	[1.08]	[dB/m]
	1 0.1 [0.33] 0.07	1 2 0.1 0.14 [0.33] [0.46] 0.07 0.1	1 2 4.5 0.1 0.14 0.2 [0.33] [0.46] [0.66] 0.07 0.1 0.16	1 2 4.5 9 0.1 0.14 0.2 0.29 [0.33] [0.46] [0.66] [0.95] 0.07 0.1 0.16 0.23	1 2 4.5 9 18 0.1 0.14 0.2 0.29 0.4 [0.33] [0.46] [0.66] [0.95] [1.31] 0.07 0.1 0.16 0.23 0.33

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.05dB x vFrequency (GHz) per connector.

Mechanical Specifications

Cable Assembly

Jacket Diameter

0.63 in [16 mm] Diameter

0.188 lbs [85.28 g] Weight

Cable

Cable Type PE-P142LL 50 Ohms **Impedance** Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver

Dielectric Type **PTFE** Number of Shields Shield Layer 1 Silver Plated Copper Tape Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper Wire Jacket Material FEP, Green

One Time Minimum Bend Radius 1 in [25.4 mm]

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0.195 in [4.95 mm]



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Connectors

Description	Connector 1	Connector 2 TNC Female Bulkhead	
Туре	SMA Male Right Angle		
Specification	MIL-PRF-39012	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	PEI	
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Outer Conductor 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]		
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

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

RoHS Compliant

REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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How to Order



Example: PE3C1173-12 = 12 inches long cable

PE3C1173-100cm = 100 cm long cable

SMA Male Right Angle to TNC Female Bulkhead Low Loss Cable 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-female-pe-p142ll-cable-assembly-pe3c1173-p.aspx

PE3C1173 REV 1.0

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PE3C1173 CAD DrawingSMA Male Right Angle to TNC Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS

