



RF Cable Assemblies Technical Data Sheet

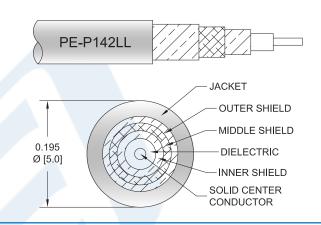
PE3C2985

Configuration

- · Connector 1: SMA Male Right Angle · Connector 2: N Female Bulkhead
- Cable Type: PE-P142LL

Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- 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



Description

The PE3C2985 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 PE3C2985 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
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 N Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS PE3C2985

ISO 9001: 2008 Registered





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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.

PE-P142LL

0.195 in [4.95 mm]

1 in [25.4 mm]

Mechanical Specifications

Cable Assembly

Jacket Diameter

One Time Minimum Bend Radius

0.875 in [22.23 mm] Diameter

0.188 lbs [85.28 g] Weight

Cable

Cable Type 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

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Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male Right Angle	N Female Bulkhead		
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. minimun		
Dielectric Type	PTFE	PEI		
Outer Conductor Material and Plating		Passivated Stainless Steel		
Outer Conductor Plating Specification		SAE-AMS-2700		
Coupling Nut Material and Plating	Passivated Stainless Steel			
Coupling Nut Plating Specification	SAE-AMS-2700			
Hex Size	5/16 Inch			
Torque	5 in-lbs [0.57 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: PE3C2985-12 = 12 inches long cable PE3C2985-100cm = 100 cm long cable

SMA Male Right Angle to N 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-n-female-pe-p142ll-cable-assembly-pe3c2985-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.



PE3C2985 CAD Drawing
SMA Male Right Angle to N Female Bulkhead Low Loss Cable Using PE-P142LL Coax, RoHS

