



SMA Male to N Male Right Angle Low Loss Cable 12 Inch Length Using PE-P142LL Coax, RoHS

RF Cable Assemblies Technical Data Sheet

PE3C1037-12

Configuration

- Connector 1: SMA Male
- Connector 2: N Male Right Angle
- 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 PE3C1037 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 PE3C1037 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 to N Male Right Angle Low Loss Cable 12 Inch Length Using PE-P142LL Coax, RoHS PE3C1037-12](#)



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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.)	0.52	0.56	0.62	0.71	0.82	dB
Insertion Loss (Typ.)	0.49	0.52	0.58	0.65	0.75	dB

Mechanical Specifications

Cable Assembly

Length	12 in [304.8 mm]
Diameter	0.875 in [22.23 mm]
Weight	0.22 lbs [99.79 g]

Cable

Cable Type	PE-P142LL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
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
Type	SMA Male	N Male Right Angle
Specification	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 Steel
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	3/4 Inch
Torque	8 in-lbs [0.9 Nm]	14 in-lbs [1.58 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 Yes
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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How to Order

Part Number Configuration:

PE3C1037

- xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C1037-12 = 12 inches long cable
PE3C1037-100cm = 100 cm long cable

SMA Male to N Male Right Angle Low Loss Cable 12 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.

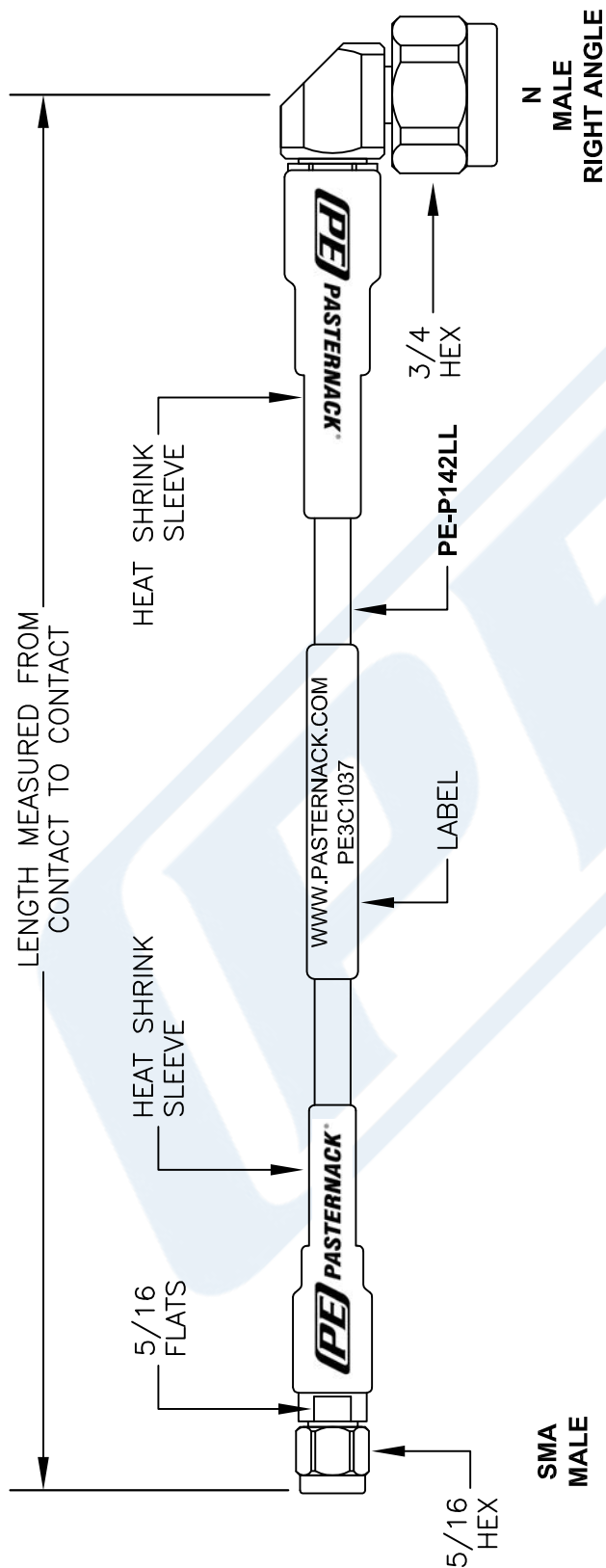
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URL: <https://www.pasternack.com/sma-male-n-male-pe-p142ll-cable-assembly-pe3c1037-12-p.aspx>

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PE3C1037-12 CAD Drawing

SMA Male to N Male Right Angle Low Loss Cable 12 Inch
Length Using PE-P142LL Coax, RoHS



NOTE:
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

Part Number Configuration		How To Order		Examples	
PE3zzzzz	YV	-	xx	uu	PE3000LF-100 PE3000-100 PE3000LF-100CM PE3000-100CM
LF = RoHS Compliant < Blank > = Standard		CM = Centimeters < Blank > = Inches		Length	
Note: LF applies only to RF cables					
Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters		
-12	12"	-25CM	25Cm		
-24	24"	-50CM	50Cm		
-36	36"	-75CM	75Cm		
-48	48"	-100CM	100Cm		
-60	60"	-125CM	125Cm		
-xx	Custom Length	-xxCM	Custom Length		

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.



PASTERNAK®
THE ENGINEER'S RF SOURCE

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DWG TITLE

PE3C1037

FSCM NO. 53919

CAD FILE 100914

SCALE N/A

SIZE A

150