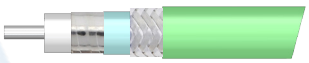
PASTERNACK
an INFINITE brand

SMA Male to SMA Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder

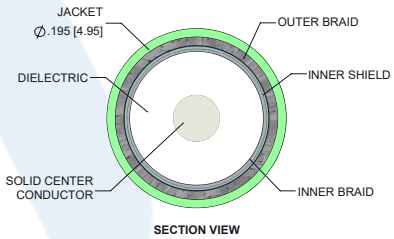
RF Cable Assemblies Technical Data Sheet PE342-48

Configuration

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



Features



- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.35:1 to 18 GHz
- Minimum Bend Radius of 1.5 inches
- Operating Temperature range of -55 to +125 °
- ROHS and REACH Compliant
- Same day shipment of custom lengths
- 100% Continuity, Hi-Pot, and RF tested

Applications

- General Purpose
- Test & Measurement
- Laboratory Use

Description

The PE340's 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 PE340 cable assemblies are 100% Continuity, Hi-POT, and RF tested to published specifications. Custom lengths are built to order and shipped same day.

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 SMA Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder PE342-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

SMA Male to SMA Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder

RF Cable Assemblies Technical Data Sheet PE342-48

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		83		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.6	0.727	0.948	1.234	1.667	dB
Power Handling (Max.)	820	570	370	260	170	W

Electrical Specification Notes:
Power handling values are calculated based on Cable properties. Power handling will vary based on the actual VSWR of the cable assembly.
Insertion Loss is estimated as 0.1 dB for the Male Straight connector and 0.2 dB for the Male Right Angle connector.

Mechanical Specifications

Cable Assembly

Length*	48 in [121.92 cm]
Diameter	0.63 in [16 mm]
Weight	0.1536 lbs [69.67 g]

Cable

Cable Type	PE-P142LL
Impedance	50 Ohms
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]
Repeated Minimum Bend Radius	1 in [25.4 mm]

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 SMA Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder PE342-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

SMA Male to SMA Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder

RF Cable Assemblies Technical Data Sheet PE342-48

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male Right Angle
Specification	MIL-STD-348, Fig 310-1	MIL-PRF-39012. Figure 310-1
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	PTFE
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	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 Inch	5/16 Inch
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

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.

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 SMA Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder PE342-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

SMA Male to SMA Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder

RF Cable Assemblies Technical Data Sheet PE342-48

How to Order

Part Number Configuration:

PE342 - xx uu

- uu: Unit of Measure: cm = Centimeters, <blank> = Inches
- xx: Length
- PE342: Base Number

Example: PE342-12 = 12 inches long cable
PE342-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder 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.

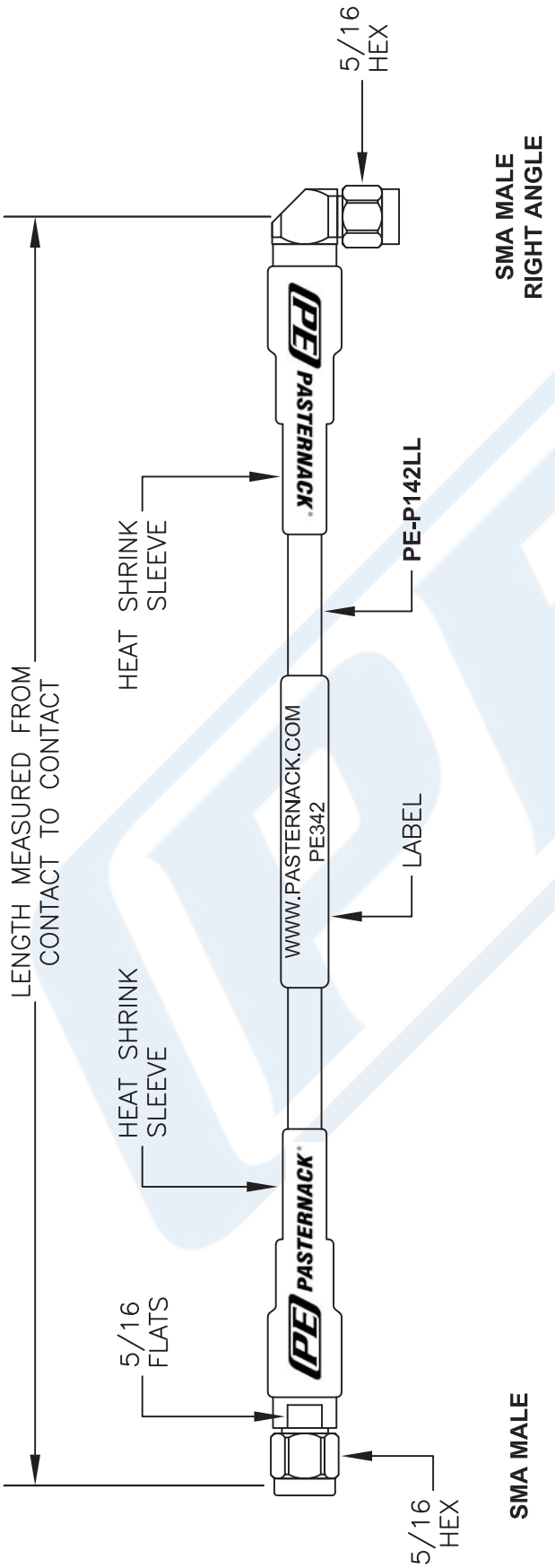
Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMA Male Right Angle Low Loss Test Cable 48 Inch Length Using PE-P142LL Coax with HeatShrink, LF Solder PE342-48

URL: https://www.pasternack.com/sma-male-sma-male-pe-p142ll-cable-assembly-pe342-48-p.aspx

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PE342-48 CAD Drawing

SMA Male to SMA Male Right Angle Low Loss Test Cable 48 Inch
Length Using PE-P142LL Coax with HeatShrink, LF Solder



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

How To Order			Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
Part Number Configuration	Examples		-12	12"	-25CM	25Cm
PE3 zzz - xx uu	PE3000-100		-24	24"	-50CM	50Cm
00 - 99999 Length	PE3000-100CM		-36	36"	-75CM	75Cm
< Blank > = Inches			-48	48"	-100CM	100Cm
CM = Centimeters			-60	60"	-125CM	125Cm
			-xx	Custom Length	-xxCM	Custom Length

DWG TITLE
PE342

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.

PASTERNACK®
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

FSCM NO. 53919	CAD FILE 091713	SCALE N/A	SIZE A	2233