



SMA Male to SMA Female Low Loss Test Cable
50 CM Length Using PE-P142LL Coax, RoHS

TECHNICAL DATA SHEET

PE340-50CM

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.

- 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 °C
- ROHS and REACH Compliant
- Same day shipment of custom lengths
- 100% Continuity, Hi-Pot, and RF tested

Configuration

| | |
|-------------|------------|
| Connector 1 | SMA Male |
| Connector 2 | SMA Female |
| Cable Type | PE-P142LL |

Electrical Specifications

| | |
|----------------------------|----------|
| Frequency Range, GHz | DC to 18 |
| Impedance, Ohms | 50 |
| Maximum VSWR | 1.35:1 |
| Velocity of Propagation, % | 83 |
| RF Shielding, dB | 95 |

Typical Performance by Frequency

Frequency 1

| | |
|------------------------|--------------------|
| Frequency, MHz | 400 |
| Insertion Loss | 0.045 dB [0.15 dB] |
| Power Handling, KWatts | 1.2 |

Frequency 2

| | |
|-----------------------|--------------------|
| Frequency, MHz | 1000 |
| Insertion Loss | 0.072 dB [0.24 dB] |
| Power Handling, Watts | 700 |

Frequency 3

| | |
|-----------------------|--------------------|
| Frequency, GHz | 2 |
| Insertion Loss | 0.103 dB [0.34 dB] |
| Power Handling, Watts | 500 |

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 Female Low Loss Test Cable 50 CM Length Using PE-P142LL Coax, RoHS PE340-50CM](#)

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.





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Frequency 4

| | |
|-----------------------|---------------------|
| Frequency, GHz | 3 |
| Insertion Loss | 0.127 dB [0.42 dB] |
| Power Handling, Watts | 400 |

Frequency 5

| | |
|-----------------------|---------------------|
| Frequency, GHz | 5 |
| Insertion Loss | 0.166 dB [0.54 dB] |
| Power Handling, Watts | 300 |

Frequency 6

| | |
|-----------------------|--------------------|
| Frequency, GHz | 10 |
| Insertion Loss | 0.24 dB [0.79 dB] |
| Power Handling, Watts | 220 |

Frequency 7

| | |
|-----------------------|--------------------|
| Frequency, GHz | 18 |
| Insertion Loss | 0.33 dB [1.08 dB] |
| Power Handling, Watts | 160 |

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.

Mechanical Specifications

Cable

| | |
|--------------------------|--------------|
| Cable Type | PE-P142LL |
| No of Shields | 3 |
| Dielectric Type | PTFE |
| Jacket Material | FEP |
| Cable Color | Green |
| Jacket Diameter, in [mm] | 0.195 [4.95] |

Connector 1

| | |
|---------------------------------------|----------------------------|
| Type | SMA Male |
| Connector 1 Specification | MIL-STD-348, Fig 310-1 |
| Configuration | Straight |
| Inner Conductor Material and Plating | Beryllium Copper, Gold |
| Inner Conductor Plating Specification | ASTM-B488 50µ In. Minimum |
| Coupling Nut Material and Plating | Passivated Stainless Steel |
| Coupling Nut Plating Specification | SAE-AMS-2700 |
| Hex Size, Inch | 5/16 |
| Torque, in-lbs [Nm] | 8 [0.9] |
| Body Material and Plating | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 |

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| | |
|--|----------------------------|
| Dielectric Type | PTFE |
| Connector 2 | |
| Type | SMA Female |
| Configuration | Straight |
| Inner Conductor Material and Plating | Beryllium Copper, Gold |
| Inner Conductor Plating Specification | ASTM-B488, 50µ In. Minimum |
| Outer Conductor Material and Plating | Passivated Stainless Steel |
| Outer Conductor Plating Specification | SAE-AMS-2700 |
| Body Material and Plating | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 |
| Dielectric Type | PTFE |
| Temperature | |
| Temperature Operating Range, deg C | -55 to +125 |
| Size | |
| Length, in [mm] | 19.685 [500] |
| Diameter, in [mm] | 0.37 [9.4] |
| Weight, lbs [g] | 0.192 [87.09] |
| Repeated Minimum Bend Radius, in [mm] | 1 [25.4] |
| Compliance Certifications (visit www.Pasternack.com for current document) | |
| RoHS Compliant | Yes |
| REACH Compliant | 07/19/2006 |

Plotted and Other Data

Notes: Values at 25 °C, sea level

SMA Male to SMA Female Low Loss Test Cable 50 CM Length Using PE-P142LL Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% 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 Female Low Loss Test Cable 50 CM Length Using PE-P142LL Coax, RoHS PE340-50CM](http://www.pasternack.com/sma-male-sma-female-pe-p142ll-cable-assembly-pe340-50cm-p.aspx)

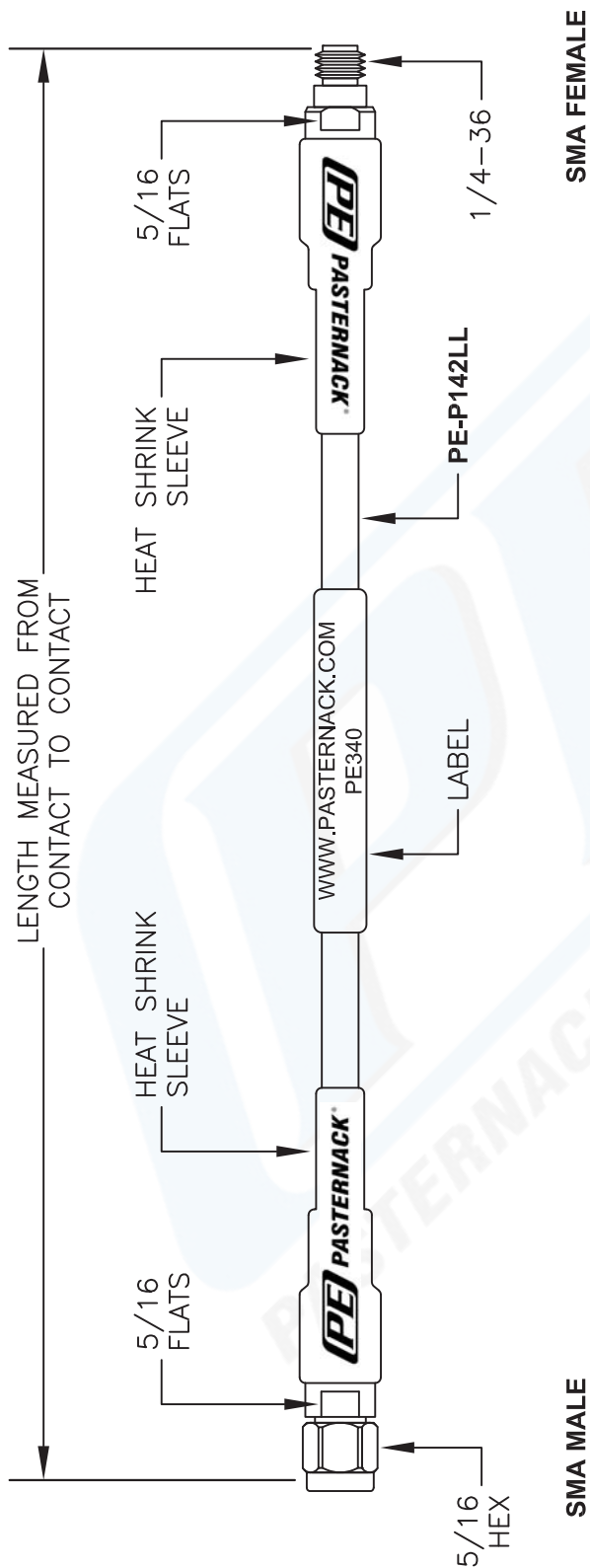
URL: <http://www.pasternack.com/sma-male-sma-female-pe-p142ll-cable-assembly-pe340-50cm-p.aspx>

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PE340-50CM CAD Drawing

SMA Male to SMA Female Low Loss Test Cable 50 CM

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 | |
|---------------------------|------------------------------|--------------|-----------------------|
| PE3 | [zzz] - [xx] [uu] | Part # Ext. | Length In Centimeters |
| 00 - 99999 | < Blank > = Inches Length | -12 | 25CM |
| | | -24 | 50CM |
| | | -36 | 75CM |
| | | -48 | 100CM |
| | | -60 | 125CM |
| | | -xx | Custom Length |
| Examples | | Part # Ext. | Length In Inches |
| PE3000-100 | | -12 | 12" |
| PE3000-100CM | | -24 | 24" |
| | | -36 | 36" |
| | | -48 | 48" |
| | | -60 | 60" |
| | | -xx | 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.

DWG TITLE
PE340

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