



SMA Male to SMA Male Low Loss Cable 100 cm Length Using PE-P142LL Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

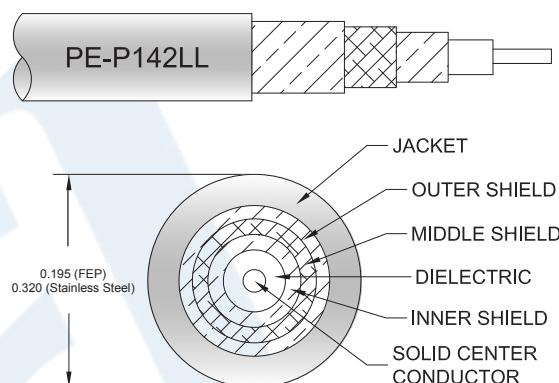
PE3C0230-100CM

Configuration

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

Features

- Passivated Stainless Steel Flexible Armoring
- Type N Male to N Male and SMA Male to SMA Male Configurations Available
- Robust Connector/Armor Interface
- Triple Shielded Low Loss PE-P142LL Coax with Expanded PTFE Tape Dielectric
- Standard inch lengths: 12", 24", 36", 48", 60", 72", 120"
- Standard metric lengths: 50cm, 100cm, 150cm, 200cm
- SMA rated to 20 GHz with a 1.35:1 VSWR
- N type rated to 18 GHz with a 1.35:1 VSWR
- Custom lengths available, call for pricing and lead time



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's new SMA and type N armored test cables utilize a flexible passivated stainless steel armoring that is designed to handle harsh industrial environments, common in production test systems. Its rugged armoring is very flexible and ensures RF signal integrity during test, even when exposed to a high traffic production environment. These armored RF test cables are equipped with passivated stainless steel connectors, with the SMA designed to operate to 20 GHz and the type N to 18 GHz. A robust mechanical connector/armoring interface increases the durability of the test cables, and its strain relief boot increases the life of the test cable. Pasternack's armored test cables are built using PE-P142LL coaxial cable that is triple shielded with an expanded PTFE dielectric, guaranteeing low loss performance.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 20 | GHz |
| VSWR | | 1.25:1 | 1.35:1 | |
| Velocity of Propagation | | 80 | | % |

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 Low Loss Cable 100 cm Length Using PE-P142LL Coax with Heat-Shrink PE3C0230-100CM](#)



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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|------|-------|-------|-------|-------|
| Frequency | 1 | 3 | 5 | 10 | 18 | GHz |
| Insertion Loss (Typ.) | 0.263 | 0.46 | 0.591 | 0.821 | 1.182 | dB |
| Power Handling (Max.) | | | | 220 | | Watts |

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as $0.05 \times \sqrt{f(\text{GHz})}$ dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|---------|---------------------|
| Length* | 39.37 in [100 cm] |
| Weight | 0.23 lbs [104.33 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 Braid |
| Shield Layer 2 | Aluminum Polyester |
| Shield Layer 3 | Silver Plated Copper Braid |
| Jacket Material | Passivated Stainless Steel |
| Jacket Diameter | 0.32 in [8.13 mm] |

| | |
|------------------------------|----------------|
| Repeated Minimum Bend Radius | 1 in [25.4 mm] |
|------------------------------|----------------|

Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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Environmental Specifications

Temperature

Operating Range

-55 to +200 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

PE3C0230

- xx

uu

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

Example: PE3C0230-12 = 12 inches long cable
PE3C0230-100cm = 100 cm long cable

SMA Male to SMA Male Low Loss Cable 100 cm Length Using PE-P142LL Coax with HeatShrink 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.

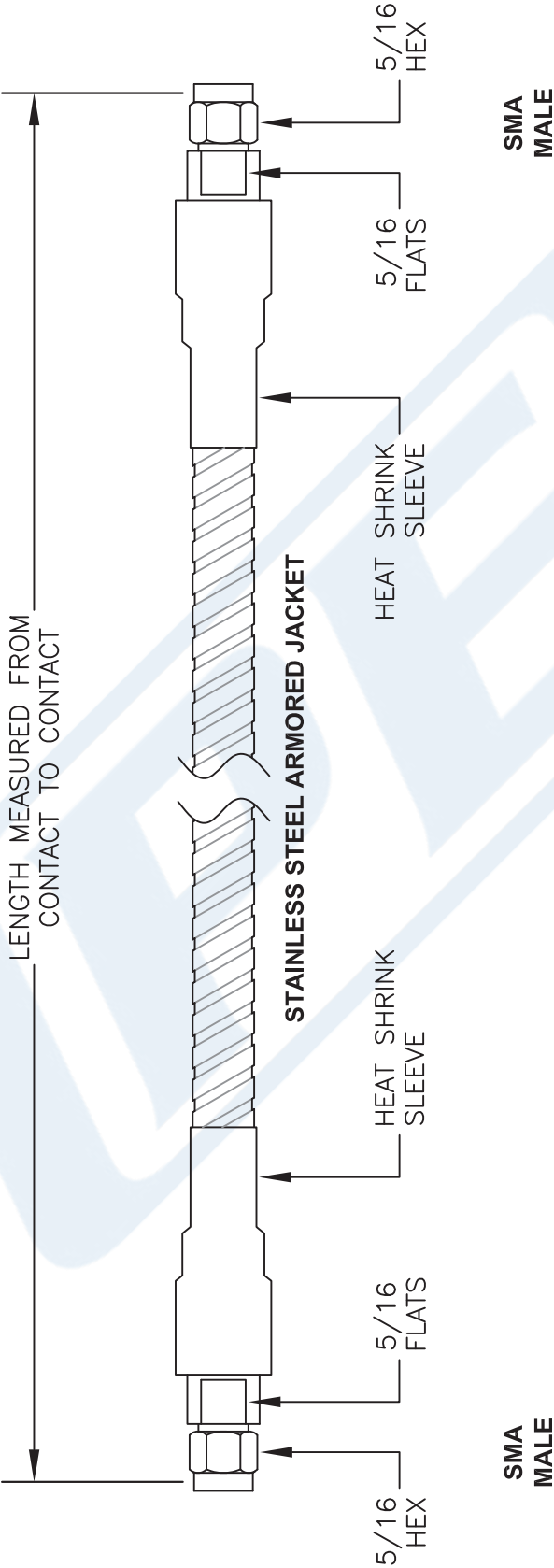
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URL: <https://www.pasternack.com/sma-male-sma-male-pe-p142ll-cable-assembly-pe3c0230-100cm-p.aspx>

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.

PE3C0230-100CM CAD Drawing

SMA Male to SMA Male Low Loss Cable 100 cm Length
Using PE-P142LL Coax with HeatShrink



| STANDARD TOLERANCES | | | |
|---------------------|-------|--|--|
| .X | ±0.2 | | |
| .XX | ±0.1 | | |
| .XXX | ±0.05 | | |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

- 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 | | FSCM NO. 53919 | | CAD FILE 110916 | | SCALE N/A | | SIZE A | | 41742 | |
|-----------|--|----------------|--|-----------------|--|-----------|--|--------|--|-------|--|
| PE3C0230 | | | | | | | | | | | |

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