



SMA Male to SMA Male Right Angle Low Loss Test Cable 50 cm Length Using PE-P300LL Coax, RoHS

RF Cable Assemblies Technical Data Sheet

PE3C1722-50CM

**Configuration**

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P300LL

**Features**

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.40:1 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 and RF tested



**Description**

The PE3C1722 high performance test cable's 0.3 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 PE3C1722 cable assemblies are 100% Continuity 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   |              |
| 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 SMA Male Right Angle Low Loss Test Cable 50 cm Length Using PE-P300LL Coax, RoHS PE3C1722-50CM](#)



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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.) | 0.3   | 0.33  | 0.4  | 0.5  | 0.63 | dB    |
| Insertion Loss (Typ.) | 0.28  | 0.31  | 0.36 | 0.44 | 0.56 | dB    |
| Power Handling (Max.) | 1,800 | 1,200 | 900  | 650  | 400  | Watts |

**Mechanical Specifications**

**Cable Assembly**

Length\* 19.685 in [500 mm]  
Diameter 0.78 in [19.81 mm]

**Cable**

Cable Type PE-P300LL  
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 0.3 in [7.62 mm]  
  
Repeated Minimum Bend Radius 1.5 in [38.1 mm]

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#### Connectors

| Description                        | Connector 1                        | Connector 2                |
|------------------------------------|------------------------------------|----------------------------|
| Type                               | SMA Male                           | SMA Male Right Angle       |
| Specification                      | MIL-STD-348B                       | MIL-STD-348                |
| Impedance                          | 50 Ohms                            | 50 Ohms                    |
| Mating Cycles                      | 500                                |                            |
| Contact Material and Plating       | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold     |
| Contact Plating Specification      | 50 µin minimum                     | ASTM-B488 50µ In.          |
| Dielectric Type                    | PTFE                               | PTFE                       |
| 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                             | 7 in-lbs [0.79 Nm]                 | 8 in-lbs [0.9 Nm]          |
| Body Material and Plating          | Passivated Stainless Steel         | Passivated Stainless Steel |
| Body Plating Specification         | SAE-AMS-2700                       | SAE-AMS-2700               |

#### Mechanical Specification Notes:

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

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**How to Order**

Part Number Configuration:

**PE3C1722**

- **xx**

**uu**

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

Example: PE3C1722-12 = 12 inches long cable  
PE3C1722-100cm = 100 cm long cable

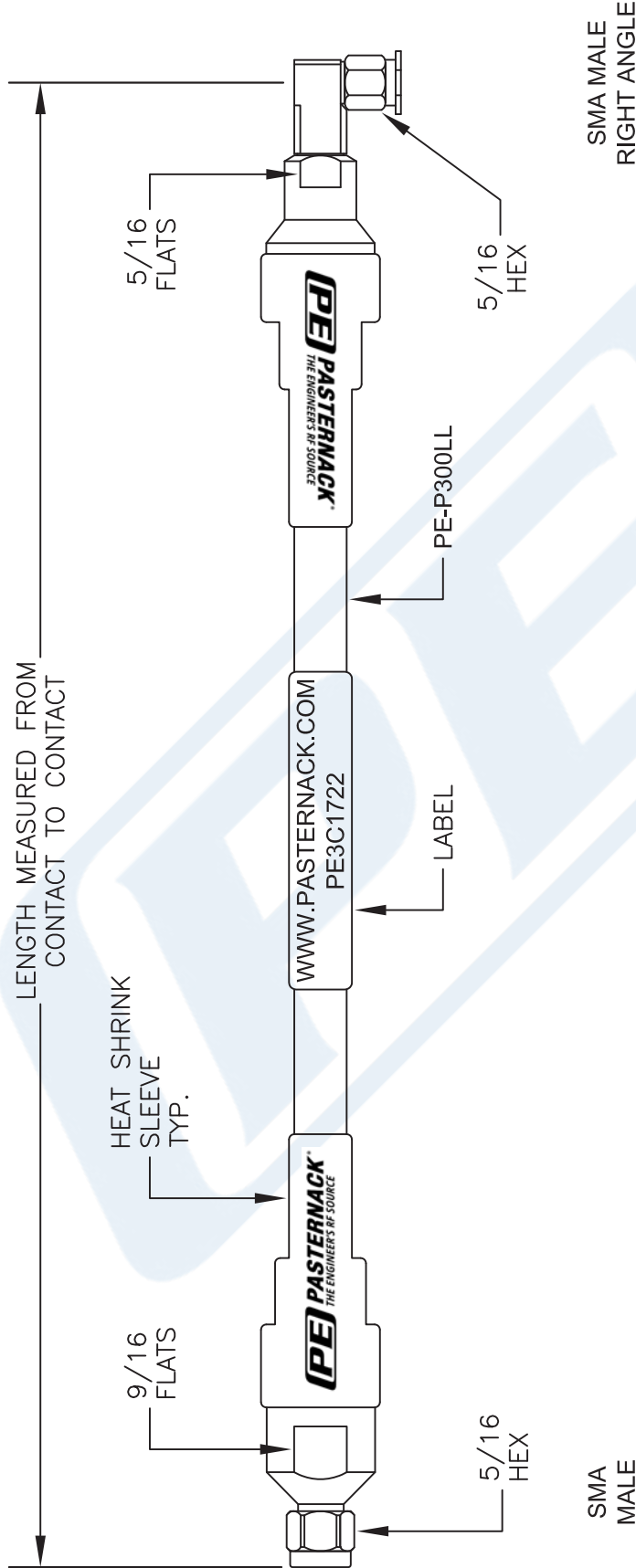
SMA Male to SMA Male Right Angle Low Loss Test Cable 50 cm Length Using PE-P300LL Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 50 cm Length Using PE-P300LL Coax, RoHS PE3C1722-50CM](https://www.pasternack.com/sma-male-sma-male-pe-p300ll-cable-assembly-pe3c1722-50cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-sma-male-pe-p300ll-cable-assembly-pe3c1722-50cm-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.

**PE3C1722-50CM CAD Drawing**  
 SMA Male to SMA Male Right Angle Low Loss Test Cable  
 50 cm Length Using PE-P300LL Coax, RoHS



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

**PE PASTERNAK**  
 THE ENGINEERS RF SOURCE  
 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

DWG TITLE  
**PE3C1722**  
**FSCM NO. 53919**

**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.

|          |        |       |     |      |   |      |
|----------|--------|-------|-----|------|---|------|
| CAD FILE | 062016 | SCALE | N/A | SIZE | A | 2233 |
|----------|--------|-------|-----|------|---|------|