



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

RF Cable Assemblies Technical Data Sheet

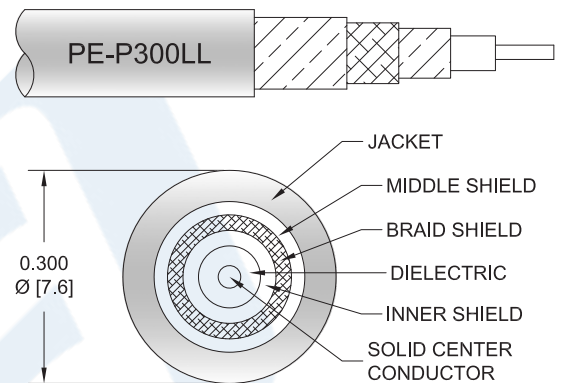
PE3C3251-50CM

Configuration

- Connector 1: SMA Male
- Connector 2: N 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 Compliant
- Same day shipment of custom lengths
- 100% Continuity and RF tested



Description

The PE3C3251 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 PE3C3251 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 N Male Right Angle Low Loss Test Cable 50 cm Length Using PE-P300LL Coax, RoHS PE3C3251-50CM](#)





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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 0.82 in [20.83 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 | 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. | ASTM-B488 |
| 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 | |
| Torque | 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:

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How to Order

Part Number Configuration:

PE3C3251

- **xx**

uu

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

Example: PE3C3251-12 = 12 inches long cable
PE3C3251-100cm = 100 cm long cable

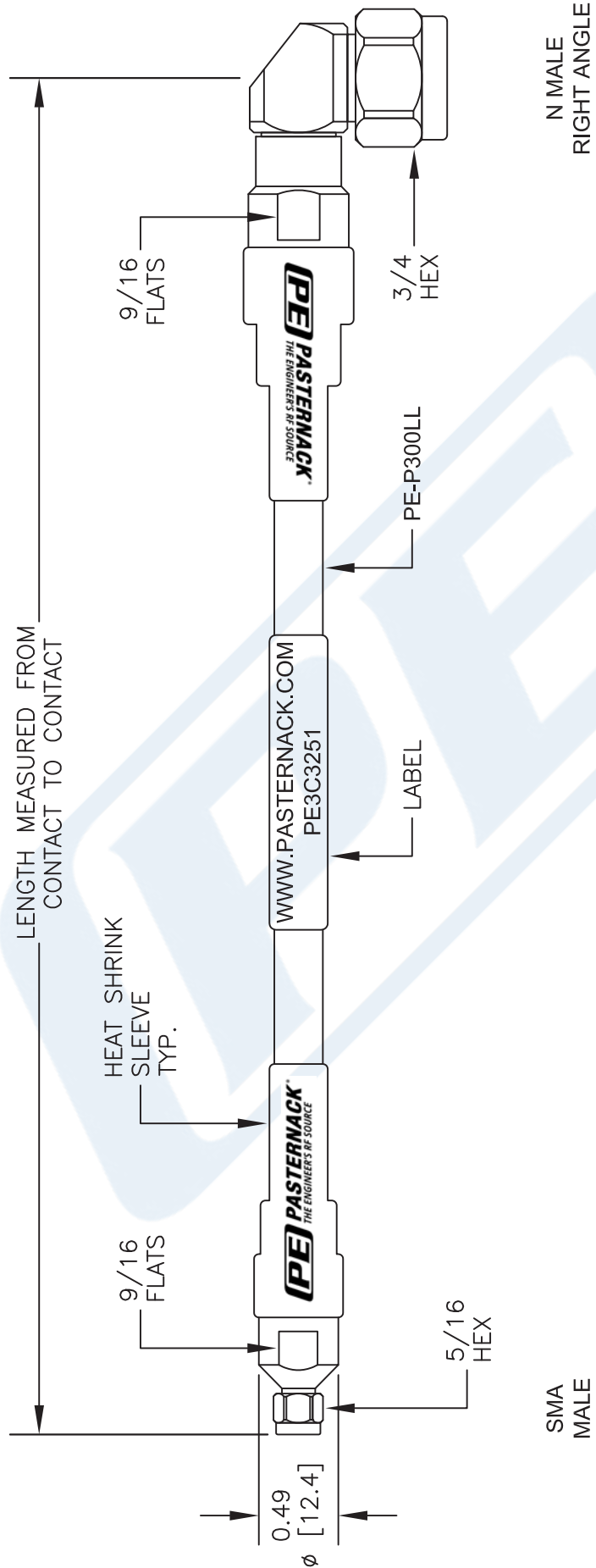
SMA Male to N Male Right Angle Low Loss Test Cable 50 cm Length Using PE-P300LL Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the 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 N Male Right Angle Low Loss Test Cable 50 cm Length Using PE-P300LL Coax, RoHS PE3C3251-50CM](https://www.pasternack.com/sma-male-n-male-pe-p300ll-cable-assembly-pe3c3251-50cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-n-male-pe-p300ll-cable-assembly-pe3c3251-50cm-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.

PE3C3251-50CM CAD Drawing
 SMA Male to N 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.

DWG TITLE

PE3C3251

- 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 $\pm 1.5\%$ OR $3/8"$, WHICHEVER IS GREATER.

PE PASTERNAK
 THE ENGINEER'S 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

FSCM NO. 53919

CAD FILE 062116

SCALE N/A

SIZE A

2233