



SMA Male to N Female Bulkhead Low Loss Cable 24 Inch Length Using PE-P142LL Coax, RoHS

RF Cable Assemblies Technical Data Sheet

PE3C2162-24

Configuration

- Connector 1: SMA Male
- Connector 2: N Female Bulkhead
- Cable Type: PE-P142LL

Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.40:1 to 18 GHz
- Minimum Bend Radius of 1 inch
- Operating Temperature range of -55 to +125°C
- ROHS and REACH Compliant
- Same day shipment of custom lengths



Description

The PE3C2162 series 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 PE3C2162 cable assemblies are 100% Continuity, Hi-POT, 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 | |
| Return Loss | 15.56 | | | dB |
| 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 Female Bulkhead Low Loss Cable 24 Inch Length Using PE-P142LL Coax, RoHS PE3C2162-24](#)



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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.) | 0.62 | 0.7 | 0.82 | 1 | 1.22 | dB |
| Insertion Loss (Typ.) | 0.56 | 0.62 | 0.74 | 0.88 | 1.08 | dB |
| VSWR (Max.) | 1.25:1 | 1.25:1 | 1.25:1 | 1.35:1 | 1.4:1 | |

Mechanical Specifications

Cable Assembly

| | |
|----------|---------------------|
| Length | 24 in [609.6 mm] |
| Diameter | 0.875 in [22.23 mm] |

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 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] |
| One Time Minimum Bend Radius | 1 in [25.4 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|----------------------------|----------------------------|
| Type | SMA Male | N Female Bulkhead |
| Specification | MIL-STD-348 | 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. Minimum | ASTM-B488, 50µ In. Minimum |
| Dielectric Type | PTFE | PEI |
| Outer Conductor Material and Plating | | Passivated Stainless Steel |
| Outer Conductor Plating Specification | | SAE-AMS-2700 |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Coupling Nut Plating Specification | SAE-AMS-2700 | |
| Hex Size | 5/16 Inch | |
| Torque | 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 |

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:

PE3C2162

- xx

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

Example: PE3C2162-12 = 12 inches long cable
PE3C2162-100cm = 100 cm long cable

SMA Male to N Female Bulkhead Low Loss Cable 24 Inch Length Using PE-P142LL 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.

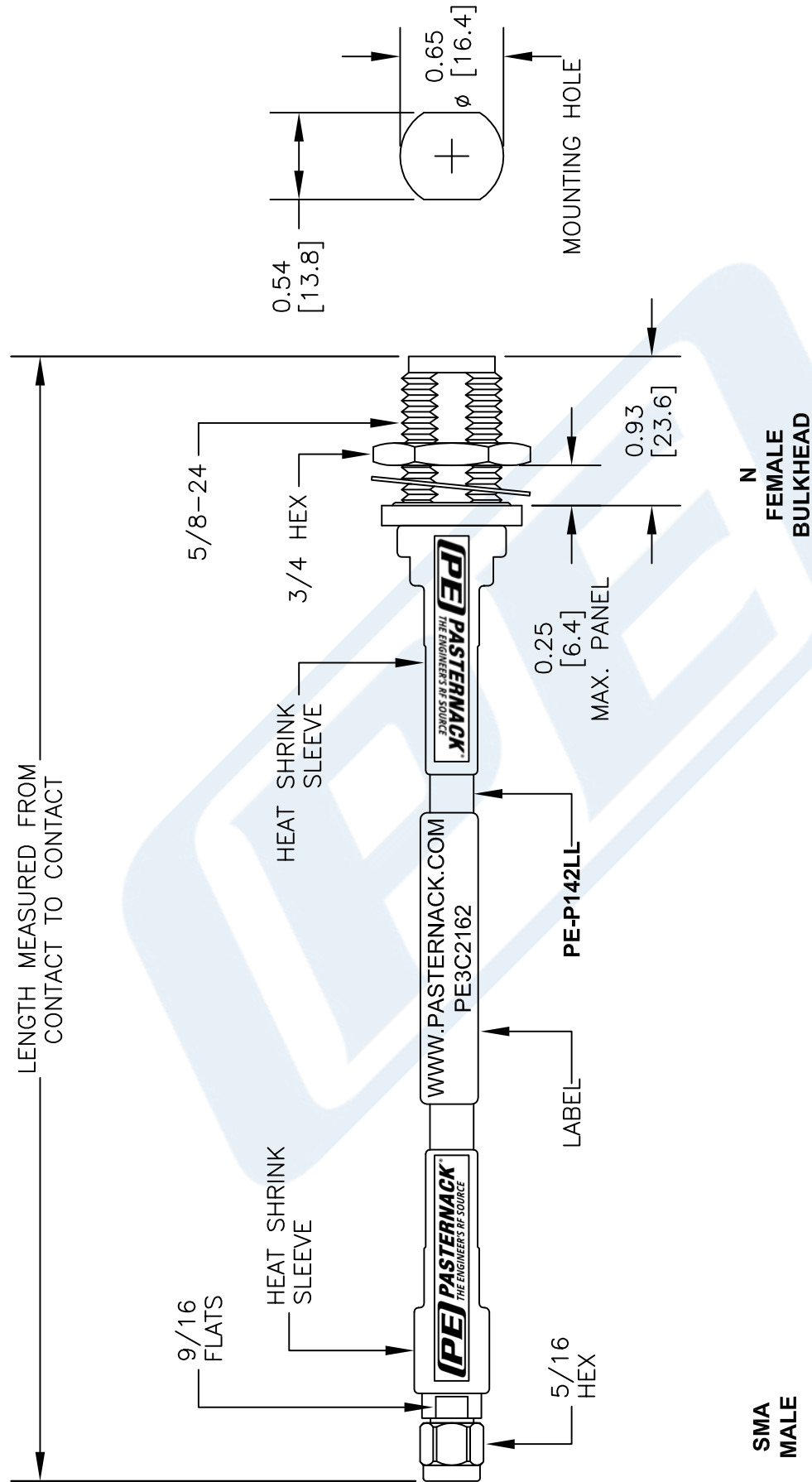
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to N Female Bulkhead Low Loss Cable 24 Inch Length Using PE-P142LL Coax, RoHS PE3C2162-24](https://www.pasternack.com/sma-male-n-female-pe-p142ll-cable-assembly-pe3c2162-24-p.aspx)

URL: <https://www.pasternack.com/sma-male-n-female-pe-p142ll-cable-assembly-pe3c2162-24-p.aspx>

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PE3C2162-24 CAD Drawing

SMA Male to N Female Bulkhead Low Loss Cable 24 Inch
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.

- 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.

DWG TITLE
PE3C2162

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FSCM NO. 53919

CAD FILE 073015

SCALE N/A

SIZE A

150