

# SMA Female to N Female Bulkhead Low Loss Cable 48 Inch Length Using PE-P142LL Coax, RoHS



#### **RF Cable Assemblies Technical Data Sheet**

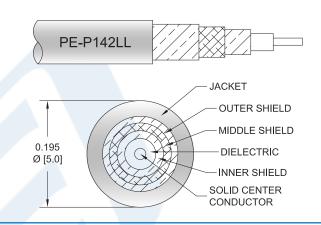
PE3C3159-48

### Configuration

- Connector 1: SMA FemaleConnector 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 PE3C3159 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 PE3C3159 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 Female to N Female Bulkhead Low Loss Cable 48 Inch Length Using PE-P142LL Coax, RoHS PE3C3159-48

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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.) | 0.82 | 0.98 | 1.22 | 1.58 | 2.02 | dB    |
| Insertion Loss (Typ.) | 0.7  | 0.82 | 1.06 | 1.34 | 1.74 | dB    |
|                       |      |      |      |      |      |       |

#### **Mechanical Specifications**

**Cable Assembly** 

 Length
 48 in [121.92 cm]

 Diameter
 0.875 in [22.23 mm]

 Weight
 0.34 lbs [154.22 g]

Cable Cable Type

Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2
Shield Layer 3
Jacket Material
Jacket Diameter

One Time Minimum Bend Radius

PE-P142LL 50 Ohms Solid Copper, Silver

PTFE

3

Silver Plated Copper Tape Aluminum Polyester Silver Plated Copper Wire

FEP, Green 0.195 in [4.95 mm]

1 in [25.4 mm]

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PE3C3159-48 REV 1.0





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#### **Connectors**

| Description                           | Connector 1                | Connector 2                |  |
|---------------------------------------|----------------------------|----------------------------|--|
| Туре                                  | SMA Female                 | N Female Bulkhead          |  |
| 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. minimum | ASTM-B488, 50µ in. minimum |  |
| Dielectric Type                       | PTFE                       | PEI                        |  |
| Outer Conductor Material and Plating  | Passivated Stainless Steel | Passivated Stainless Steel |  |
| Outer Conductor Plating Specification | SAE-AMS-2700               | SAE-AMS-2700               |  |
| Body Material and Plating             | Passivated Stainless Steel | Passivated Stainless Steel |  |
| Body Plating Specification            | SAE-AMS-2700               | SAE-AMS-2700               |  |
| 3 0 1                                 |                            |                            |  |

#### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

**RoHS Compliant** Yes **REACH Compliant** 12/17/2015

#### **Plotted and Other Data**

Notes:

· Values at 25°C, sea level.

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#### How to Order



Example: PE3C3159-12 = 12 inches long cable PE3C3159-100cm = 100 cm long cable

SMA Female to N Female Bulkhead Low Loss Cable 48 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.

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URL: https://www.pasternack.com/sma-female-n-female-pe-p142ll-cable-assembly-pe3c3159-48-p.aspx

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**PE3C3159-48 CAD Drawing** SMA Female to N Female Bulkhead Low Loss Cable 48 Inch Length Using PE-P142LL Coax, RoHS

