

N Female Bulkhead to SMA Female Bulkhead Cable 150 CM Length Using PE-P160LL Coax



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

### PE3C5278-150CM

#### Configuration Connector 1: N Female Bulkhead Connector 2: SMA Female Bulkhead Cable Type: PE-P160LL Features OUTER BRAID • Max Frequency 18 GHz Ø.160 [4.06] • Shielding Effectivity > 90 dB DIELECTRIC INNER SHIELD • 82.5% Phase Velocity • Triple Shielded • FEP Jacket • 0.8 inch Minimum Bend Radius SOLID CENTER INNER BRAID • Max VSWR of 1.33:1 to 18 GHz SECTION VIEW · Same Day Shipment of Custom Lengths · RoHS and REACH Compliant **Applications** General Purpose Automated Test Systems Phased Arrays • EW and Countermeasures Laboratory Use Airborne Systems

### Description

The PE3C5278-150CM N Female Bulkhead to SMA Female Bulkhead Low Loss cable assembly is part of a series of cable assemblies that use our PE-P160LL double shielded coax. The PE-P160LL based cable assemblies are available in a variety of connector configurations operating to a maximum frequency for this cable series of 18 GHz. The PE3C5278-150CM high performance cable assembly with a 82.5% phase velocity offers very low loss performance in a 0.16 inch coax up to 18 GHz. The shielding effectiveness of the PE-P160LL double shielded coax is greater than 95 dB. The durable stainless steel connectors and FEP cable jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. A heavy duty heat shrink booting provides improved strain relief and adds to the durability of the cable assembly.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female Bulkhead to SMA Female Bulkhead Cable 150 CM Length Using PE-P160LL Coax PE3C5278-150CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

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Martin Martin Constants

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#### **Electrical Specifications**

| Description             | 1       | Minimu | ım   | Typical    | Maximum | Units        |
|-------------------------|---------|--------|------|------------|---------|--------------|
| Frequency Range         |         | DC     |      |            | 18      | GHz          |
| VSWR                    |         |        |      |            | 1.33:1  |              |
| Velocity of Propagation |         |        |      | 82.5       |         | %            |
| RF Shielding            |         | 90     |      |            |         | dB           |
| Capacitance             |         |        |      | 25 [82.02] |         | pF/ft [pF/m] |
| Specifications by Fre   | equency |        |      | 1.1        |         |              |
| Description             | F1      | F2     | F3   | F4         | F5      | Units        |
| Frequency               | 1       | 2      | 4.5  | 9          | 18      | GHz          |
| Insertion Loss (Typ.)   | 0.57    | 0.82   | 1.25 | 1.79       | 2.6     | dB           |

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.04\*SQRT(F(GHz))dB maximum per connector.

#### **Mechanical Specifications**

Cable Assembly Length\*

#### 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

Repeated Minimum Bend Radius

59.06 in [150.01 cm]

PE-P160LL 50 Ohms Solid Copper, Silver Expanded PTFE Tape 3 Silver Plated Copper Aluminum Polyester Silver Plated Copper FEP 0.16 in [4.06 mm]

0.8 in [20.32 mm]

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#### Connectors

| Description                          | Connector 1                | Connector 2<br>SMA Female Bulkhead |  |
|--------------------------------------|----------------------------|------------------------------------|--|
| Туре                                 | N Female Bulkhead          |                                    |  |
| Impedance                            | 50 Ohms                    | 50 Ohms                            |  |
| Contact Material and Plating         | Beryllium Copper, Gold     | Beryllium Copper, Gold             |  |
| Contact Plating Specification        | ASTM-B488                  | ASTM-B488                          |  |
| Dielectric Type                      | PTFE                       | PTFE                               |  |
| Outer Conductor Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel         |  |
| Body Material and Plating            | Passivated Stainless Steel | Passivated Stainless Steel         |  |

#### **Environmental Specifications**

**Temperature** Operating Range

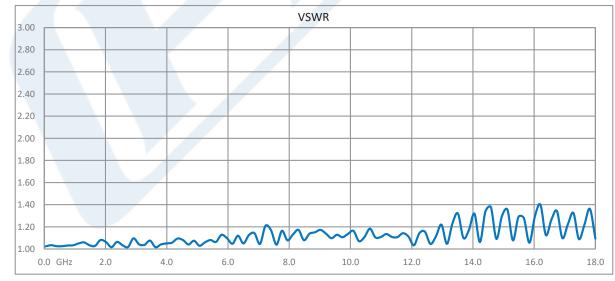
-55 to +150 deg C

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

#### **Typical Performance Data**



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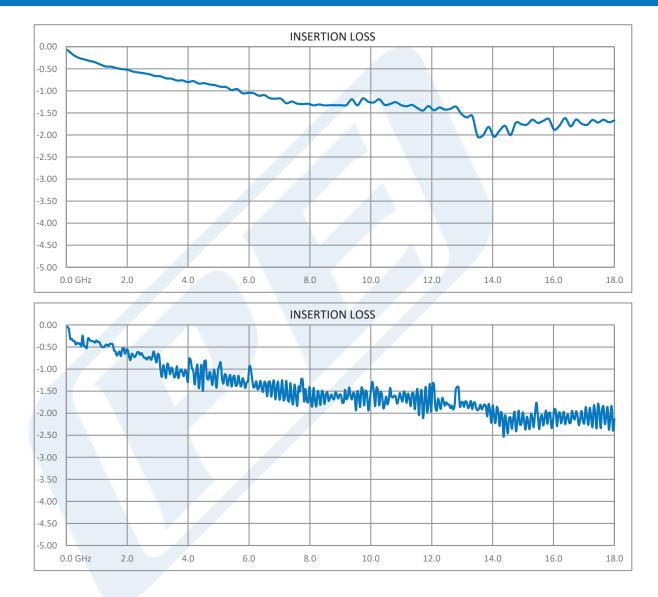
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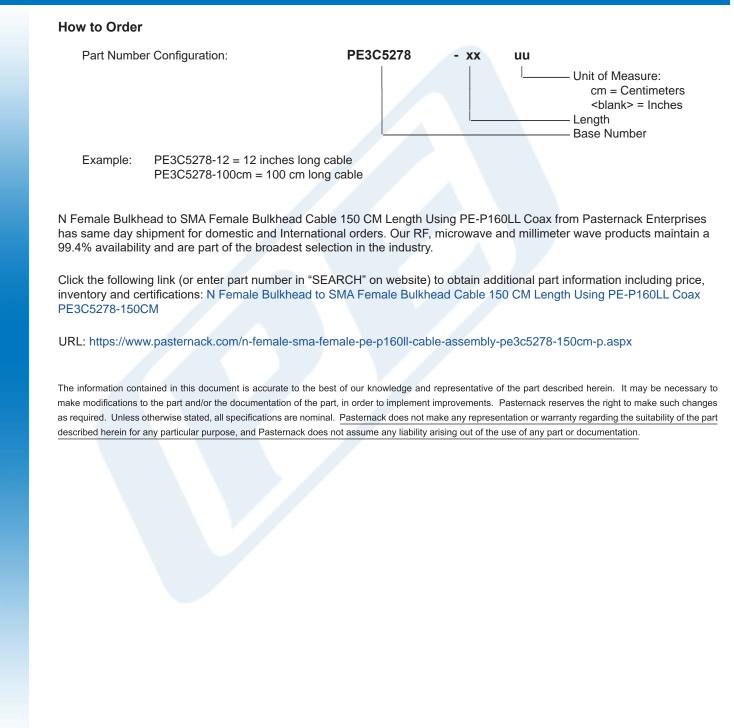


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N Female Bulkhead to SMA Female Bulkhead Cable 150 CM Length Using PE-P160LL Coax

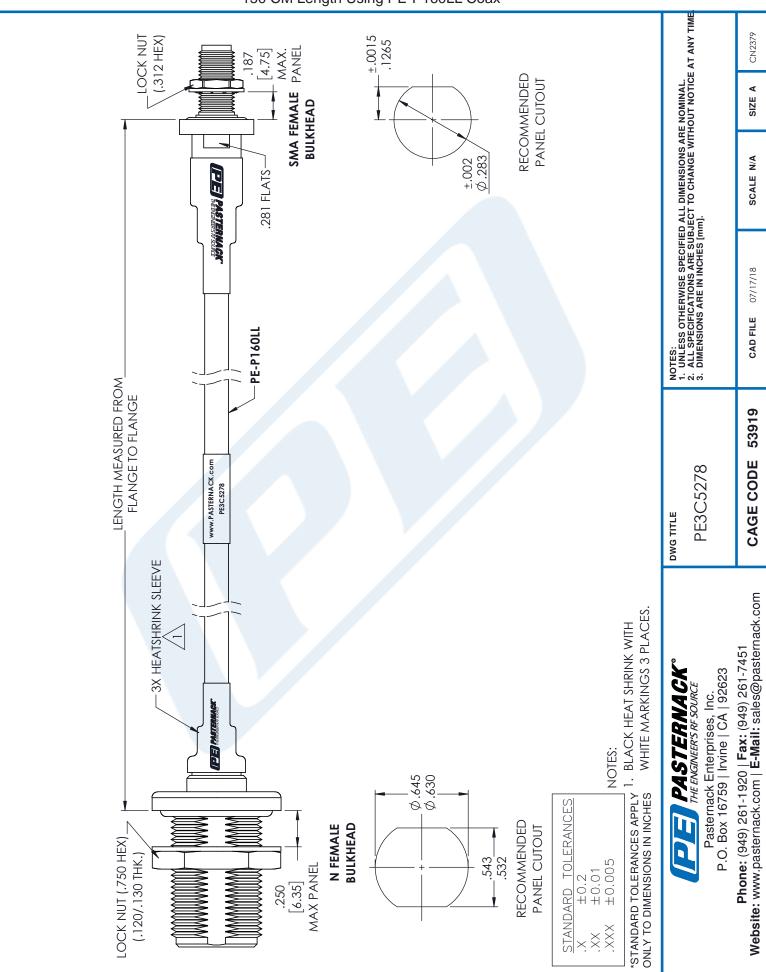
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-emale Bulkhead to SMA Female Bulkhead Cab 150 CM Length Using PE-P160LL Coax



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