



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

PE3C5277

## Configuration

- Connector 1: N Male
- Connector 2: SMA Female Bulkhead
- Cable Type: PE-P160LL

### **Features**

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- 0.8 inch Minimum Bend Radius
- Max VSWR of 1.33:1 to 18 GHz
- · Same Day Shipment of Custom Lengths
- · RoHS and REACH Compliant

# JACKET Ø.160 (4.06) DIELECTRIC SOLID CENTER CONDUCTOR SECTION VIEW OUTER BRAID INNER BRAID

### **Applications**

- General Purpose
- · Laboratory Use

- · Automated Test Systems
- Airborne Systems

- Phased Arrays
- EW and Countermeasures

### **Description**

The PE3C5277 N Male 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 PE3C5277 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 Male to SMA Female Bulkhead Low Loss Cable Using PE-P160LL Coax PE3C5277

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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### **Electrical Specifications**

Description	Minimum	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	h.	Eroguopov
Specifications	DV	Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.1	0.14	0.22	0.32	0.46	dB/ft
	0.33	0.46	0.72	1.05	1.51	dB/m

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.04\*SQRT(F(GHz))dB maximum per connector.

### **Mechanical Specifications**

### **Cable Assembly**

### Cable

PE-P160LL Cable Type 50 Ohms Impedance Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver Dielectric Type **Expanded PTFE Tape** Number of Shields Shield Layer 1 Silver Plated Copper Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper **Jacket Material FEP** Jacket Diameter 0.16 in [4.06 mm] Repeated Minimum Bend Radius 0.8 in [20.32 mm]

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### Connectors

Description	Connector 1	Connector 2	
Туре	N Male	SMA 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	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material and Plating	Passivated Stainless Steel		

### **Environmental Specifications**

Temperature

Operating Range

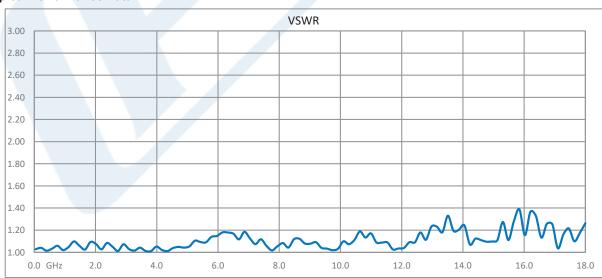
-55 to +150 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

### **Typical Performance Data**



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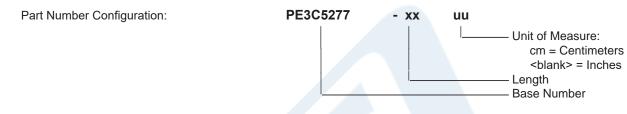




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### **How to Order**



Example: PE3C5277-12 = 12 inches long cable PE3C5277-100cm = 100 cm long cable

N Male to SMA Female Bulkhead Low Loss Cable Using PE-P160LL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/n-male-sma-female-pe-p160ll-cable-assembly-pe3c5277-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.

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PE3C5277 CAD Drawing

N Male to SMA Female Bulkhead Low Loss Cable Using PE-P160LL Coax

