

# **RF Cable Assemblies Technical Data Sheet**

#### Configuration

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

#### Features

- Max Frequency 18 GHz
- 80% Phase Velocity
- Triple Shielded
- Passivated Stainless Steel Jacket
- Type N Male to N Male and SMA Male to SMA Male Configurations Available
- Robust Connector/Armor Interface
- Low Loss Flexible Armored PE-P142LL Coax with Expanded PTFE Tape Dielectric
- · Custom lengths available, call for pricing and lead time

### **Applications**

General Purpose

Laboratory Use

#### Description

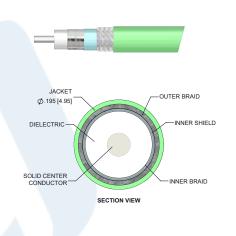
Pasternack's PE3C0253-120 type N male to SMA male 120 inch cable using PE-P142LL coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to SMA cable assembly has a male to male gender configuration with 50 ohm flexible PE-P142LL coax. The PE3C0253-120 type N male to SMA male cable assembly operates to 18 GHz. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness. The durable stainless steel type N and SMA connectors and passivated stainless steel jacket of this cable assembly make it ideal anywhere a more rugged assembly is required.

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 Male Low Loss Cable 120 Inch Length Using PE-P142LL Coax with Heat-Shrink PE3C0253-120

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

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PE3C0253-120





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## PE3C0253-120

#### **Electrical Specifications**

Description		Minimu	um T <u>i</u>	/pical	Maximum	Units
Frequency Range		DC			18	GHz
VSWR				1.25:1	1.35:1	
Velocity of Propagation				80		%
			<u> </u>			
Specifications by Fre	quency					
Description	F1	F2	F3	F4	F5	
and the second secon			• •		Гð	Units
-	1	3	5	10	18	Units GHz
Frequency Insertion Loss (Typ.)	1 0.8					

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors. Insertion loss is estimated as 0.05 x sqrt(fGHz) dB per connector.

#### **Mechanical Specifications**

Cable Assembly Length\*

Weight

#### 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

120 in [304.8 cm] 1.067 lbs [483.98 g]

PE-P142LL 50 Ohms Solid Copper, Silver PTFE 3 Silver Plated Copper Braid Aluminum Polyester Silver Plated Copper Braid Passivated Stainless Steel 0.32 in [8.13 mm]

1 in [25.4 mm]

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#### Connectors

Description	Connector 1	Connector 2	
Туре	N Male	SMA Male	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	

#### **Environmental Specifications**

**Temperature** Operating Range

-55 to +200 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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PE3C0253-120

# How to Order PE3C0253 Part Number Configuration: - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE3C0253-12 = 12 inches long cable PE3C0253-100cm = 100 cm long cable N Male to SMA Male Low Loss Cable 120 Inch Length Using PE-P142LL Coax with HeatShrink 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. 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 Male Low Loss Cable 120 Inch Length Using PE-P142LL Coax with HeatShrink PE3C0253-120 URL: https://www.pasternack.com/n-male-sma-male-pe-p142ll-cable-assembly-pe3c0253-120-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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PE3C0253-120 CAD Drawing N Male to SMA Male Low Loss Cable 120 Inch Length

Using PE-P142LL Coax with HeatShrink

