



# **RF Cable Assemblies Technical Data Sheet**

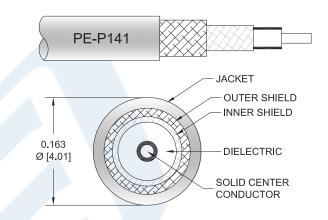
PE300-120

# Configuration

Connector 1: SMA MaleConnector 2: SMA MaleCable Type: PE-P141

#### **Features**

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- 160 series, PE-P141 Spiral Strip flexible coax



# **Applications**

· General Purpose

· Laboratory Use

#### Description

Pasternack's PE300-120 SMA male to SMA male 120 inch cable using PE-P141 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible PE-P141 coax. The PE300-120 SMA male to SMA male cable assembly operates to 18 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 110 dB.

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: SMA Male to SMA Male Cable 120 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder PE300-120

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (868) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pastemack.com • Techsupport@Pastemack.com





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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	10	18	GHz
Insertion Loss (Typ.)	1.1	2	2.6	4	5.8	dB

**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.

Short lengths up to 24" long may exhibit VSWR measurements up to 9% higher.

Amplitude variation not to exceed 10% in a coiled vs uncoiled, a coil is defined as a 4% loop.

#### **Mechanical Specifications**

#### Cable Assembly

Length\* 120 in [304.8 cm]
Weight 0.319 lbs [144.7 g]

#### Cable

Cable TypePE-P141Impedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type PTF Number of Shields 2

Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Silver Plated Copper Braid

Jacket Material FEP, Blue

Jacket Diameter 0.163 in [4.14 mm]

Repeated Minimum Bend Radius 0.82 in [20.83 mm]

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#### **Connectors**

Description	Connector 1	Connector 2 SMA Male	
Туре	SMA Male		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Gold	Gold	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Hex Size	5/16 inch	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]	

Mechanical Specification Notes:

### **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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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

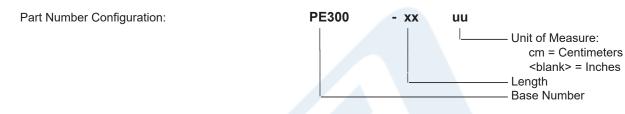




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#### **How to Order**



Example: PE300-12 = 12 inches long cable

PE300-100cm = 100 cm long cable

SMA Male to SMA Male Cable 120 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder 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/sma-male-sma-male-pe-p141-cable-assembly-pe300-120-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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**PE300-120 CAD Drawing**SMA Male to SMA Male Cable 120 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder

