



## SMA Male to SMA Female Cable Using PE-P141 Coax

### RF Cable Assemblies Technical Data Sheet

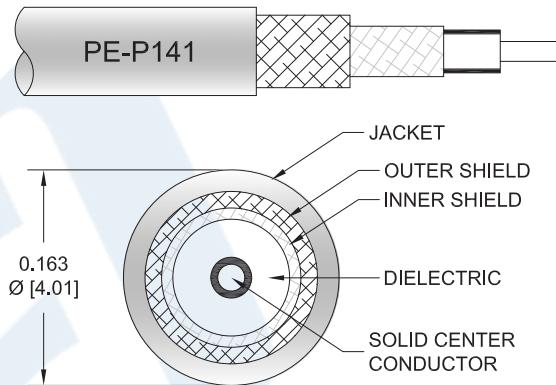
**PE3C1876**

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female
- Cable Type: PE-P141

#### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1876 SMA male to SMA female 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 female gender configuration with 50 ohm flexible PE-P141 coax. The PE3C1876 SMA male to SMA female 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		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 Male to SMA Female Cable Using PE-P141 Coax PE3C1876](#)



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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	5	10	18	GHz
Insertion Loss (Max.)	0.13	0.185	0.3	0.45	0.64	dB/ft
	0.43	0.61	0.98	1.48	2.1	dB/m
Insertion Loss (Typ.)	0.105	0.155	0.263	0.401	0.583	dB/ft
	0.34	0.51	0.86	1.32	1.91	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.03 * \text{SQRT}(F\text{GHz})$  dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.12 lbs [54.43 g]

##### Cable

Cable Type PE-P141  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 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]

##### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Impedance	50 Ohms	50 Ohms
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", whichever is greater.

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## SMA Male to SMA Female Cable Using PE-P141 Coax

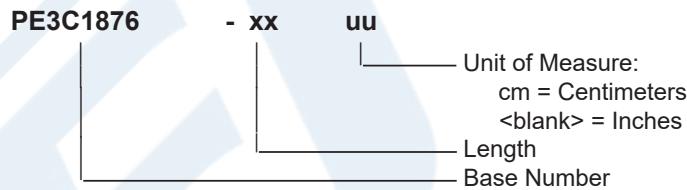
**RF Cable Assemblies Technical Data Sheet****PE3C1876****Compliance Certifications** (see [product page](#) for current document)**Plotted and Other Data**

## Notes:

- Values at 25°C, sea level.

**How to Order**

Part Number Configuration:



Example: PE3C1876-12 = 12 inches long cable  
PE3C1876-100cm = 100 cm long cable

SMA Male to SMA Female Cable Using PE-P141 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.

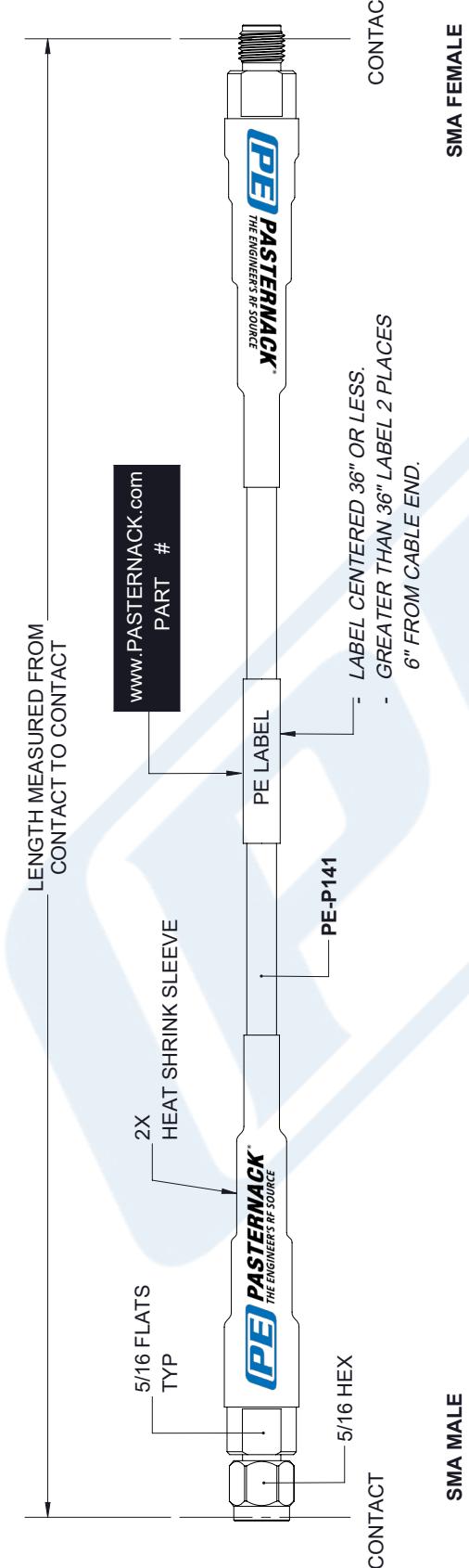
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URL:

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.

**PE3C1876 CAD Drawing**  
SMA Male to SMA Female Cable Using PE-P141 Coax

REVISIONS					
REV.	DESCRIPTION	DATE	DATE	APPROVED	APPROVED
A	INITIAL RELEASE	08/05/19		S.SELLIS	



The diagram shows a coaxial cable assembly. It consists of a PE-P141 coaxial cable with an SMA Male connector on the left and an SMA Female connector on the right. The cable is labeled 'PE-P141'. The SMA Male connector has '5/16 FLATS TYP' and '5/16 HEX' markings. The SMA Female connector has '2X HEAT SHRINK SLEEVE' markings. A 'PE PASTERNACK THE ENGINEER'S RESOURCE' label is attached to the cable. A 'PE LABEL' is attached to the cable. A 'www.PASTERNACK.com PART # [REDACTED]' label is attached to the cable. A dimension line indicates 'LENGTH MEASURED FROM CONTACT TO CONTACT' with arrows pointing to the two contact areas. A note on the right says 'LABEL CENTERED 36" OR LESS. - GREATER THAN 36" LABEL 2 PLACES 6" FROM CABLE END.' Labels 'SMA MALE' and 'SMA FEMALE' are placed below their respective connectors.

**PASTERNACK**  
an INFINITE brand

Pasterнак Enterprises, Inc.  
P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
www.pasternack.com | email: sales@pasternack.com

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SHEET		1	OF	1
SCALE		N/A		
PART NUMBER		PE3C1876	REV	
SIZE	CAGE	DRAWN BY	K.DANG	A
A	53919			

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS  
TOLERANCES:  
 $X \pm .2$  [5.08] FRACTIONS  
 $.XX \pm .01$  [0.25] ± 1/32 ANGLES ± 1°  
 $XXX \pm .005$  [0.13]

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.  
THIRD-ANGLE PROJECTION

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