



**PASTERNAK ENTERPRISES®**  
 PO Box 16759  
 Irvine, CA 92623-6759

Toll Free: (866) 727-8376  
 Direct: +1 (949) 261-1920  
 FAX: +1 (949) 261-7451  
 Sales: sales@pasternack.com  
 Tech Support:  
 techsupport@pasternack.com

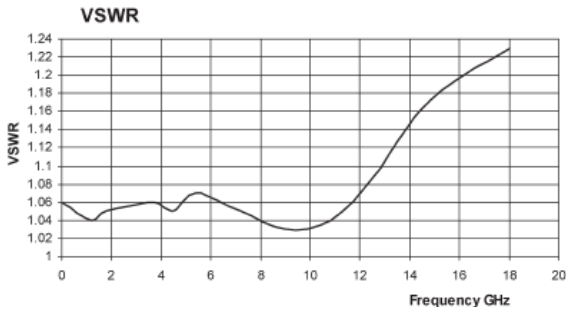
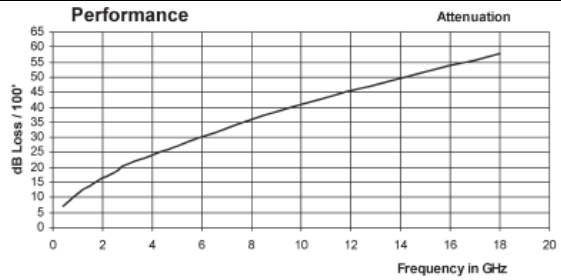
## 18 GHz Test Cable Assemblies

### Product Features

- Stainless Steel connectors
- Reinforced connector back shell
- Molded strain relief boot
- Triple Shield cable
- RoHS Compliant

### Description

The 18 GHz test cable series offers a reinforced cable/connector interface with a molded, heavy-duty strain relief boot to minimize interface stress in demanding test environments. Its triple-shield cable design ensures excellent RF shielding of >100dB. The Right Angle connector designs utilize a swept coaxial transition for improved high frequency performance.



**PE300 - SMA Male to SMA Male**



**PE301 - SMA Male to Right Angle SMA Male**



**PE302 - N Male to N Male**



**PE303 - N Male to Right Angle N Male**



**PE304 - SMA Male to N Male**



**PE305 - Right Angle N Male to Right Angle N Male**



**PE306 - SMA Female to N Male**



**PE308 - SMA Male to TNC Male**



**PE309 - SMA Male to Right Angle TNC Male**

- (1) Pasternack reserves the right to change specifications or information without notice.
- (2) Short lengths such as 6" and 12" long may exhibit VSWR measurements up to 9% higher.



**PASTERNAK ENTERPRISES®**  
PO Box 16759  
Irvine, CA 92623-6759

Toll Free: (866) 727-8376  
Direct: +1 (949) 261-1920  
FAX: +1 (949) 261-7451  
Sales: sales@pasternack.com  
Tech Support:  
techsupport@pasternack.com

## 18 GHz Test Cable Assemblies

### Electrical Specifications <sup>(1)</sup>

Parameter	Units	Value	Description
Impedance	ohms	50Ω	
Frequency	GHz	18	
Insertion Loss	dB	<0.7	Per foot at 18 GHz
VSWR		<1.4 <sup>(2)</sup>	At 18 GHz
Max Operating Voltage	V	1000	RMS
Nominal Capacitance	pF / ft.	29.4	
Velocity of Propagation	%	70	
RF Shielding	dB	>100 min.	Triple shield design

### Mechanical Specifications <sup>(1)</sup>

Parameter	Units	Value	Description
Connector A		Stainless Steel	N, SMA, TNC
Connector B		Stainless Steel	N, SMA, TNC
Minimum bend radius	in.	1.0	
Operating Temperature	C	-48° to +125°	
Weight	oz / ft	0.6	
Inner Conductor diameter	in.	0.035	Silver plated Cu Clad Steel
Outer Conductor diameter	in.	0.116	Silver plated Cu Braid and Tape
Jacket diameter	in.	0.163	FEP

### Standard Lengths

P/N	Connector 1	Connector 2	Length (in.)						
			24	30	36	48	60	72	120
PE300	SMA Male	SMA Male	X	X	X	X	X	X	X
PE301	SMA Male	R/A SMA Male	X	X	X	X	X	X	X
PE302	N Male	N Male	X	X	X	X	X	X	X
PE303	N Male	R/A N Male	X	X	X	X	X	X	X
PE304	SMA Male	N Male	X	X	X	X	X	X	X
PE305	R/A N Male	R/A N Male	X	X	X	X	X	X	X
PE306	SMA Female	N Male	X	X	X	X	X	X	X
PE308	SMA Male	TNC Male	X	X	X	X	X	X	X
PE309	SMA Male	R/A TNC Male	X	X	X	X	X	X	X

### Standard Lengths

Orders placed before 3:30 PM PST are available for same-day shipping, subject to quantity limitations at time of purchase.

Note: **Custom-length** cable assemblies may be ordered online at [www.pasternack.com](http://www.pasternack.com), or by placing an order with the factory. We ship custom-length cable assemblies within 3 business days ARO (after receipt of order). 3-day shipment is subject to material limitations at time of purchase.

(1) Pasternack reserves the right to change specifications or information without notice.  
(2) Short lengths such as 6" and 12" long may exhibit VSWR measurements up to 9% higher.  
[www.pasternack.com](http://www.pasternack.com)



**PASTERNAK ENTERPRISES®**  
PO Box 16759  
Irvine, CA 92623-6759

Toll Free: (866) 727-8376  
Direct: +1 (949) 261-1920  
FAX: +1 (949) 261-7451  
Sales: sales@pasternack.com  
Tech Support:  
techsupport@pasternack.com

## 18 GHz Test Cable Assemblies

---

### Creating a Cable Assembly P/N

The cable assembly length is identified by its length in inches following the part number dash (-).

Note: Cable lengths are measured from connector center conductor tip to connector center conductor tip.

**Part Number – length in inches**  
**PExxx – xx**

#### Example

The following example is a 6 inch, PE300 cable assembly.

**PE300-6**

- (1) Pasternack reserves the right to change specifications or information without notice.
  - (2) Short lengths such as 6" and 12" long may exhibit VSWR measurements up to 9% higher.
- [www.pasternack.com](http://www.pasternack.com)