



## SMA Male to SMA Male Cable 18 Inch Length Using RG223 Coax, RoHS

### RF Cable Assemblies Technical Data Sheet

PE3377LF-18

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: RG223

#### Features

- Max Frequency 12.4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

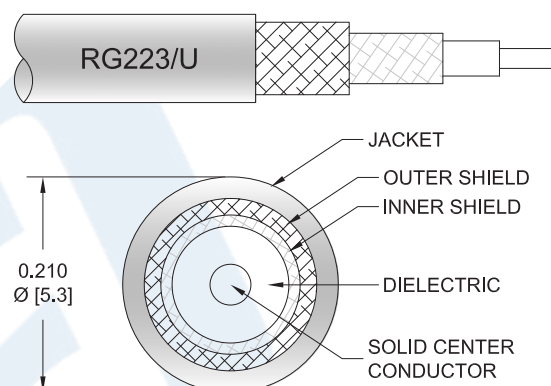
#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3377LF-18 SMA male to SMA male 18 inch cable using RG223 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 RG223 coax. The PE3377LF-18 SMA male to SMA male cable assembly operates to 12.4 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 18 Inch Length Using RG223 Coax, RoHS PE3377LF-18](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12.4	GHz
Insertion Loss (Typ.)	0.336	0.401	0.529	0.703		dB
VSWR (Max.)	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1	
Return Loss (Max.)	15.56	15.563	15.563	15.563	15.563	dB

**Mechanical Specifications**

**Cable Assembly**

Length*	18 in [457.2 mm]
Diameter	0.315 in [8 mm]
Weight	0.085 lbs [38.56 g]

**Cable**

Cable Type	RG223
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.21 in [5.33 mm]

One Time Minimum Bend Radius	1 in [25.4 mm]
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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50μ in. minimum	50μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100μ in. minimum	100μ in. minimum
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 Nm]

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

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## SMA Male to SMA Male Cable 18 Inch Length Using RG223 Coax, RoHS

### RF Cable Assemblies Technical Data Sheet

PE3377LF-18

#### How to Order

Part Number Configuration:

PE3377LF

- xx

uu

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3377LF-12 = 12 inches long cable  
PE3377LF-100cm = 100 cm long cable

SMA Male to SMA Male Cable 18 Inch Length Using RG223 Coax, RoHS 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.

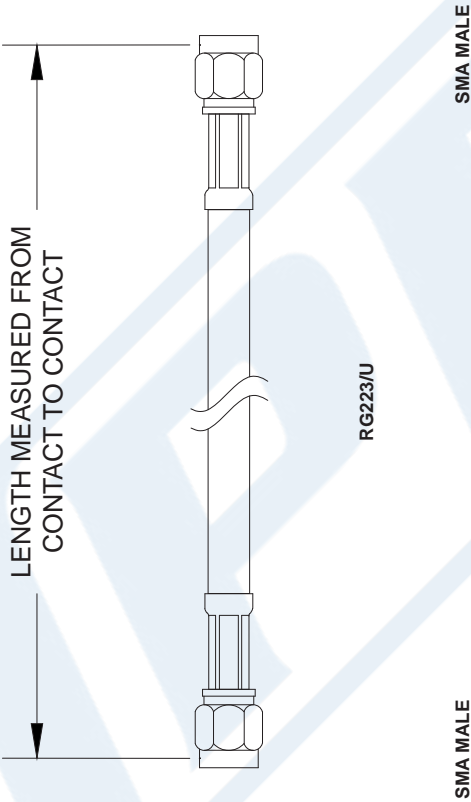
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URL: <https://www.pasternack.com/sma-male-sma-male-rg223u-cable-assembly-pe3377lf-18-p.aspx>

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.

PE3377LF-18 CAD Drawing

SMA Male to SMA Male Cable 18 Inch Length Using RG223 Coax, RoHS



How To Order						
Part Number Configuration			Examples	Part # Ext.	Length In Inches	Length In Centimeters
PE3 <div>zzz</div> - <div>yy</div> - <div>xx</div> <div>uu</div>			PE3000LF-100	-12	12"	-25CM
			PE3000-100	-24	24"	-50CM
			PE3000LF-100CM	-36	36"	-75CM
			PE3000-100CM	-48	48"	-100CM
				-60	60"	-125CM
				-xx	Custom Length	Custom Length

PE3377LF

DWG TITLE

PE3377LF

FSCM NO. 53919

PE PASTERNAK®

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NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.

2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.

3. DIMENSIONS ARE IN INCHES [mm].

4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

CAD FILE

41613

SCALE N/A

SIZE A

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PE3377LF-18 REV

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