



SMA Male to SMB Plug Cable 6 Inch  
Length Using RG142 Coax, RoHS

TECHNICAL DATA SHEET

PE3181LF-6

**Configuration**

Connector 1	SMA Male
Connector 2	SMB Plug
Cable Type	RG142

**Electrical Specifications**

Frequency Range	DC to 4 GHz
Impedance	50 Ohms
Maximum VSWR	1.4:1
Velocity of Propagation	69.2 %
RF Shielding	90 dB

**Mechanical Specifications**

**Temperature**

Temperature Operating Range	-65 to +165 deg C
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**Size**

Length	6 in [152.4 mm]
Weight	0.065 lbs [29.48 g]
Cable Color	Tan
One Time Minimum Bend Radius	0.984 in [24.99 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]

**Cable**

Cable Type	RG142
Inner Conductor Type	Solid
Cable Inner Conductor	Copper Clad Steel, Silver
No of Shields	2
Dielectric Type	PTFE
Jacket Material	FEP
Jacket Diameter	0.195 in [4.95 mm]

**Connector 1**

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

**Connector 2**

Type	SMB Plug
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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 SMB Plug Cable 6 Inch Length Using RG142 Coax, RoHS PE3181LF-6](#)



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Connector 2 Specification  
Configuration

MIL-STD-348A  
Straight

Inner Conductor Plating Specification  
Coupling Nut Plating Specification  
Body Material and Plating  
Body Plating Specification

30μ in. minimum  
100μ in. minimum  
Brass, Nickel  
100μ in. minimum

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant  
REACH Compliant

Yes  
12/19/2011

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

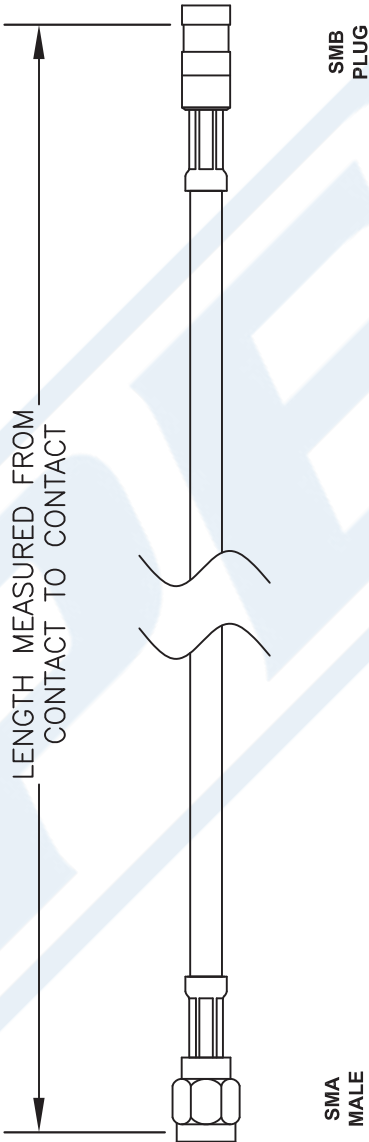
SMA Male to SMB Plug Cable 6 Inch Length Using RG142 Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMB Plug Cable 6 Inch Length Using RG142 Coax, RoHS PE3181LF-6](#)

URL: <http://www.pasternack.com/sma-male-smb-plug-rg142bu-cable-assembly-pe3181lf-6-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.

Standard Lengths	
-12	12"
-24	24"
-36	36"
-48	48"
-60	60"
-XXX	Custom Length in Inches



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  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**PE3181LF-XX**

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REV. -  
**FSCM NO. 53919**

CAD FILE  
042309

SCALE  
N/A

SIZE  
A

127