



SMA Male to SMB Plug Cable Using RG142 Coax

TECHNICAL DATA SHEET

PE3181

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	70 %
RF Shielding	90 dB

Mechanical Specifications

Temperature

Temperature Operating Range	-65 to +165 deg C
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Size

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
Coupling Nut Material and Plating	Brass, Nickel
Coupling Nut Plating Specification	100µ 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

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 Using RG142 Coax PE3181](#)



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Connector 2

Type	SMB Plug
Connector 2 Specification	MIL-STD-348A
Configuration	Straight
Inner Conductor Plating Specification	30µ in. minimum
Coupling Nut Plating Specification	100µ in. minimum
Body Material and Plating	Brass, Nickel
Body Plating Specification	100µ in. minimum

Compliance Certifications (visit www.Pasternack.com for current document)

For RoHS Compliant version, use PE3181LF. Contact Pasternack if product cannot be found.
REACH Compliant 12/19/2011

Plotted and Other Data

Notes:

- Values at +25 °C, sea level

SMA Male to SMB Plug Cable Using RG142 Coax 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 Using RG142 Coax PE3181](#)

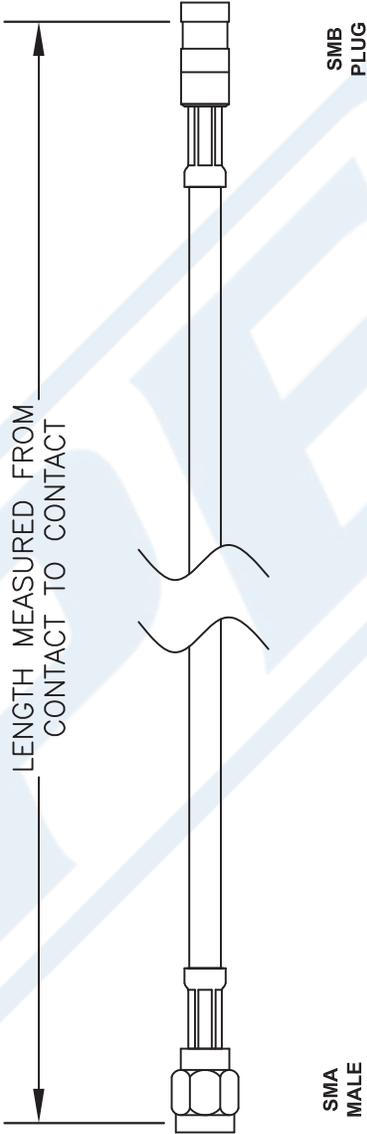
URL: <http://www.pasternack.com/sma-male-smb-plug-rg142bu-cable-assembly-pe3181-p.aspx>

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.

PE3181 CAD Drawing

SMA Male to SMB Plug Cable Using RG142 Coax

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



DWG TITLE

PE3181-XX

- 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.

REV. - **FSCM NO. 53919** **CAD FILE 021907** **SCALE N/A** **SIZE A** **127**

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