



SMA Male to SMB Plug Cable 18 Inch Length Using RG142 Coax

TECHNICAL DATA SHEET

PE3181-18

**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 |
|-----------------------------|-------------------|

**Size**

|                              |                     |
|------------------------------|---------------------|
| Length                       | 18 in [457.2 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 |
|------|----------|

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 18 Inch Length Using RG142 Coax PE3181-18](#)



## SMA Male to SMB Plug Cable 18 Inch Length Using RG142 Coax

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Connector 2 Specification  
Configuration

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

MIL-STD-348A  
Straight  
30μ in. minimum  
100μ in. minimum  
Brass, Nickel  
100μ in. minimum

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

For RoHS Compliant version, use PE3181LF-18. Contact Pasternack if product cannot be found.  
REACH Compliant 12/19/2011

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

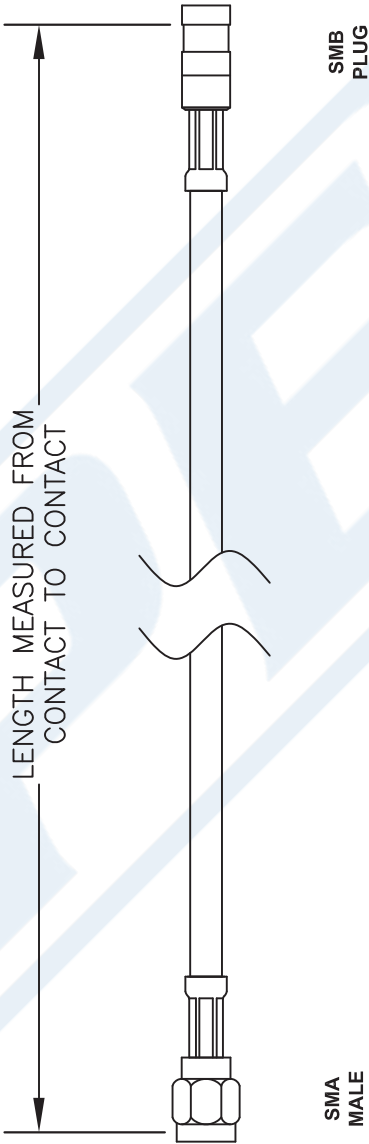
SMA Male to SMB Plug Cable 18 Inch Length Using RG142 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 18 Inch Length Using RG142 Coax PE3181-18](#)

URL: <http://www.pasternack.com/sma-male-smb-plug-rg142bu-cable-assembly-pe3181-18-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.

| 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 |  | FSCM NO. 53919 |  | CAD FILE | 021907 | SCALE | N/A | SIZE | A | 127 |
| PE3181-XX |  | REV. -         |  |          |        |       |     |      |   |     |

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