



## SMA Male to SMB Plug Cable 6 Inch Length Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

PE3810-6

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMB Plug
- Cable Type: RG316

#### Electrical Specifications

| Description             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 3       | GHz          |
| VSWR                    |         |             | 1.4:1   |              |
| Return Loss             | 15.56   |             |         | dB           |
| Velocity of Propagation |         | 69.5        |         | %            |
| Capacitance             |         | 32 [104.99] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1    | F2     | F3     | F4     | F5     | Units |
|-----------------------|-------|--------|--------|--------|--------|-------|
| Frequency             | 0.1   | 0.25   | 0.5    | 1      | 3      | GHz   |
| Insertion Loss (Max.) | 0.26  | 0.28   | 0.32   | 0.39   | 0.49   | 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   | 6 in [152.4 mm]     |
| Diameter | 0.312 in [7.92 mm]  |
| Weight   | 0.023 lbs [10.43 g] |

##### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG316                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 1                          |
| Shield Layer 1                       | Silver Plated Copper Braid |

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 RG316 Coax PE3810-6](#)



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Jacket Material  
Jacket Diameter

FEP, Tan  
0.098 in [2.49 mm]

#### Connectors

| Description                        | Connector 1        | Connector 2            |
|------------------------------------|--------------------|------------------------|
| Type                               | SMA Male           | SMB Plug               |
| Specification                      | MIL-STD-348A       | MIL-STD-348A           |
| Impedance                          | 50 Ohms            | 50 Ohms                |
| Contact Material and Plating       | Brass, Gold        | Beryllium Copper, Gold |
| Contact Plating Specification      | 30µ in. Minimum    | 30µ in. minimum        |
| Dielectric Type                    | PTFE               | Teflon                 |
| 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      | Brass, Nickel          |
| Body Plating Specification         | 100µ in. Minimum   | 100µ in. minimum       |

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

For RoHS Compliant version, use PE3810LF-6. Contact Pasternack if product cannot be found.

REACH Compliant

06/18/2012

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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 RG316 Coax PE3810-6](#)



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#### How to Order

Part Number Configuration:

PE3810

- xx

uu

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

Example: PE3810-12 = 12 inches long cable  
PE3810-100cm = 100 cm long cable

SMA Male to SMB Plug Cable 6 Inch Length Using RG316 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.

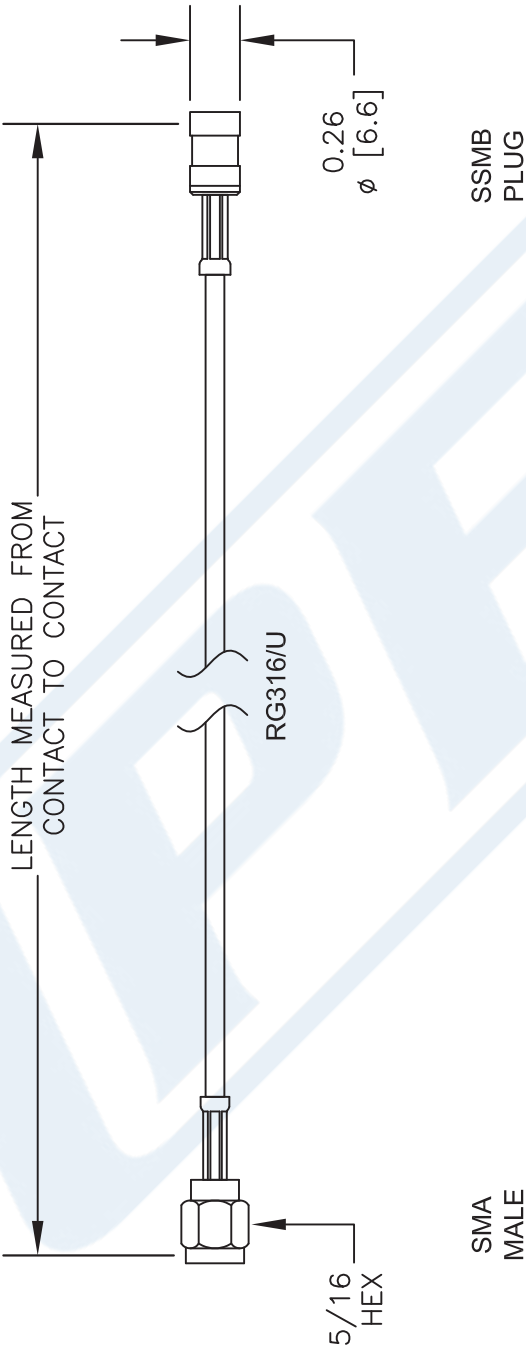
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMB Plug Cable 6 Inch Length Using RG316 Coax PE3810-6](http://www.pasternack.com/sma-male-smb-plug-rg316u-cable-assembly-pe3810-6-p.aspx)

URL: <http://www.pasternack.com/sma-male-smb-plug-rg316u-cable-assembly-pe3810-6-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.

PE3810-6 CAD Drawing

SMA Male to SMB Plug Cable 6 Inch Length Using RG316 Coax



- 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

PE3810

FSCM NO. 53919

CAD FILE 110415

SCALE N/A

SIZE A

2233

PE

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THE ENGINEER'S RF SOURCE

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