



## SMA Male to SMA Female Bulkhead Cable 12 Inch Length Using RG402 Coax, RoHS

### RF Cable Assemblies Technical Data Sheet

PE3825LF-12

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female Bulkhead
- Cable Type: RG402

#### Electrical Specifications

| Description                          | Minimum | Typical     | Maximum | Units        |
|--------------------------------------|---------|-------------|---------|--------------|
| Frequency Range                      | DC      |             | 6       | GHz          |
| VSWR                                 |         |             | 1.4:1   |              |
| Capacitance                          |         | 29.9 [98.1] |         | pF/ft [pF/m] |
| Dielectric Withstanding Voltage (AC) |         |             | 1,000   | Vrms         |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 1    | 2    | 4.5  | 9    | 18   | GHz   |
| Insertion Loss (Max.) | 0.32 | 0.36 | 0.45 | 0.61 | 0.85 | dB    |

#### Mechanical Specifications

##### Cable Assembly

|          |                     |
|----------|---------------------|
| Length   | 12 in [304.8 mm]    |
| Diameter | 0.433 in [11 mm]    |
| Weight   | 0.048 lbs [21.77 g] |

##### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG402                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 1                         |
| Outer Conductor Material and Plating | Copper, Bare              |
| Outer Conductor Diameter             | 0.141 in [3.58 mm]        |

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 Female Bulkhead Cable 12 Inch Length Using RG402 Coax, RoHS PE3825LF-12](#)



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**Connectors**

| Description                           | Connector 1           | Connector 2            |
|---------------------------------------|-----------------------|------------------------|
| Type                                  | SMA Male              | SMA Female Bulkhead    |
| Specification                         | MIL-STD-348A          | MIL-STD-348A           |
| Impedance                             | 50 Ohms               | 50 Ohms                |
| Contact Material and Plating          | Brass, Gold           | Beryllium Copper, Gold |
| Contact Plating Specification         | 50µ in. minimum       | 50µ in. minimum        |
| Dielectric Type                       | Teflon                | Teflon                 |
| Outer Conductor Material and Plating  |                       | Stainless Steel, Gold  |
| Outer Conductor Plating Specification |                       | 30µ 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             | Stainless Steel, Gold | Stainless Steel, Gold  |
| Body Plating Specification            | 10µ in. minimum       | 30µ in. minimum        |

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

RoHS Compliant

Yes

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

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**How to Order**

Part Number Configuration:

**PE3825LF**    - **xx**    **uu**

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

Example:    PE3825LF-12 = 12 inches long cable  
              PE3825LF-100cm = 100 cm long cable

SMA Male to SMA Female Bulkhead Cable 12 Inch Length Using RG402 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.

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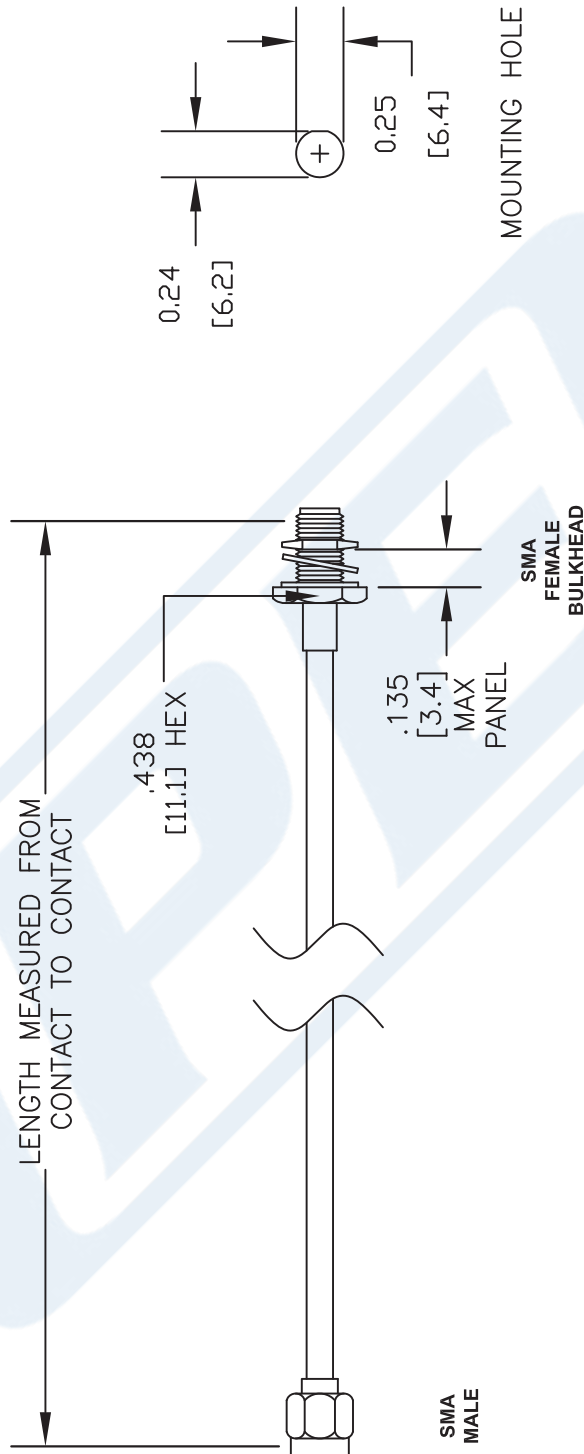
URL: <http://www.pasternack.com/sma-male-sma-female-rg402u-cable-assembly-pe3825lf-12-p.aspx>

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.

# PE3825LF-12 CAD Drawing

SMA Male to SMA Female Bulkhead Cable 12 Inch Length Using RG402 Coax, RoHS

| 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  
**PE3825LF-XX**

**PE PASTERNAK®**  
 Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623  
 Phone: (949) 261-1920 | Fax: (949) 261-7451  
 Website: www.pasternack.com | E-Mail: sales@pasternack.com

|        |                |                 |           |        |     |
|--------|----------------|-----------------|-----------|--------|-----|
| REV. A | FSCM NO. 53919 | CAD FILE 020508 | SCALE N/A | SIZE A | 127 |
|--------|----------------|-----------------|-----------|--------|-----|