



## SSMB Jack Bulkhead Connector Crimp/Solder Attachment For RG174, RG179, RG316, RG188, .126 inch D Hole

### TECHNICAL DATA SHEET

**PE4336**

#### SSMB Jack Bulkhead Connector Crimp/Solder Attachment For RG174, RG179, RG316, RG188, .126 inch D Hole

##### Configuration

|                                          |                            |
|------------------------------------------|----------------------------|
| Connector                                | SSMB Jack                  |
| Connector Interface Type                 | RG174, RG179, RG316, RG188 |
| Cable Attachment Method (Shield/Contact) | Crimp/Solder               |
| Body Style                               | Straight                   |
| Mount Method                             | Bulkhead                   |

##### Electrical Specifications

|                 |    |
|-----------------|----|
| Impedance, Ohms | 50 |
|-----------------|----|

##### Mechanical Specifications

###### Size

|                     |              |
|---------------------|--------------|
| Length, in [mm]     | 0.81 [20.57] |
| Width/Dia., in [mm] | 0.188 [5]    |
| Weight, lbs [g]     | 0.004 [1.81] |

###### Connector

|                              |             |
|------------------------------|-------------|
| Type                         | SSMB Jack   |
| Contact Material and Plating | Gold        |
| Body Material and Plating    | Brass, Gold |
| Dielectric Type              | PTFE        |

##### 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 |
|--------|----------------------------|

SSMB Jack Bulkhead Connector Crimp/Solder Attachment For RG174, RG179, RG316, RG188, .126 inch D Hole from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

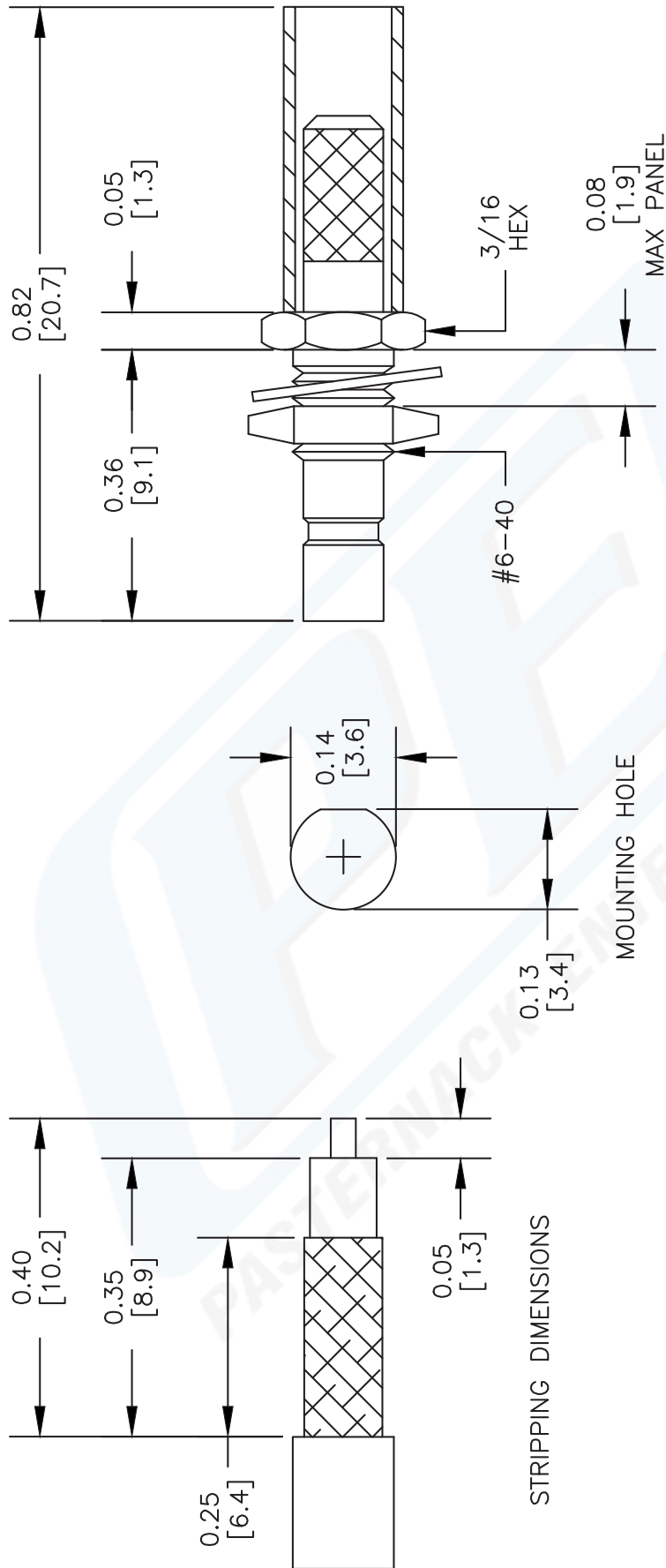
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Jack Bulkhead Connector Crimp/Solder Attachment For RG174, RG179, RG316, RG188, .126 inch D Hole PE4336](http://www.pasternack.com/ssmb-jack-standard-rg174-rg179-rg316-rg188-connector-pe4336-p.aspx)

URL: <http://www.pasternack.com/ssmb-jack-standard-rg174-rg179-rg316-rg188-connector-pe4336-p.aspx>

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# PE4336 CAD Drawing

SSMB Jack Bulkhead Connector Crimp/Solder Attachment For  
RG174, RG179, RG316, RG188, .126 inch D Hole



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. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE  
**PE4336**

REV. - FSCM NO. 53919 CAD FILE 111802 SCALE N/A SIZE A 2233

**PASTERNACK®**  
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SMA Female Connector Crimp/Solder Attachment for RG174,  
RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100

## RF Connectors Technical Data Sheet

**PE4414**

### Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment

### Features

- Max. Operating Frequency 18 GHz
- Good VSWR of 1.5:1
- Gold Plated Beryllium Copper Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4414 SMA female connector with crimp/solder attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.5:1.

Our SMA female connector PE4414 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 18      | GHz   |
| VSWR                                 |         |         | 1.5:1   |       |
| Operating Voltage (AC)               |         |         | 250     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 750     | Vrms  |

### Mechanical Specifications

#### Size

|               |                    |
|---------------|--------------------|
| Length        | 0.81 in [20.57 mm] |
| Width/Dia.    | 0.312 in [7.92 mm] |
| Weight        | 0.007 lbs [3.18 g] |
| Mating Cycles | 100 Cycles         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 PE4414](#)



SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100

## RF Connectors Technical Data Sheet

**PE4414**

### Material Specifications

| Description     | Material         | Plating |
|-----------------|------------------|---------|
| Contact         | Beryllium Copper | Gold    |
| Insulation      | PTFE             |         |
| Outer Conductor | Brass            | Nickel  |
| Body            | Brass            | Nickel  |

### Environmental Specifications

#### Temperature

Operating Range -65 to +165 deg C

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% 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 Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 PE4414](#)

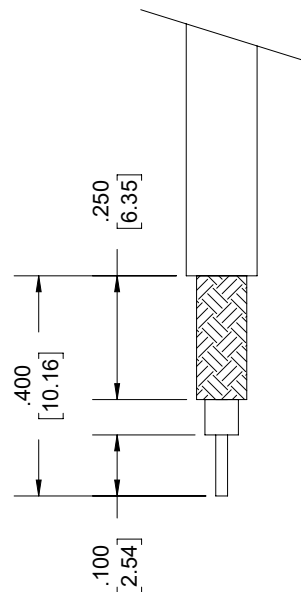
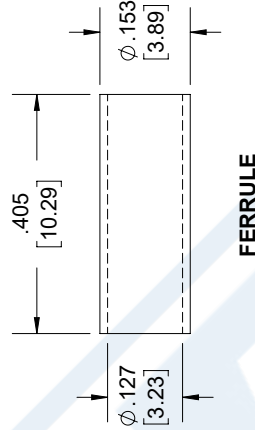
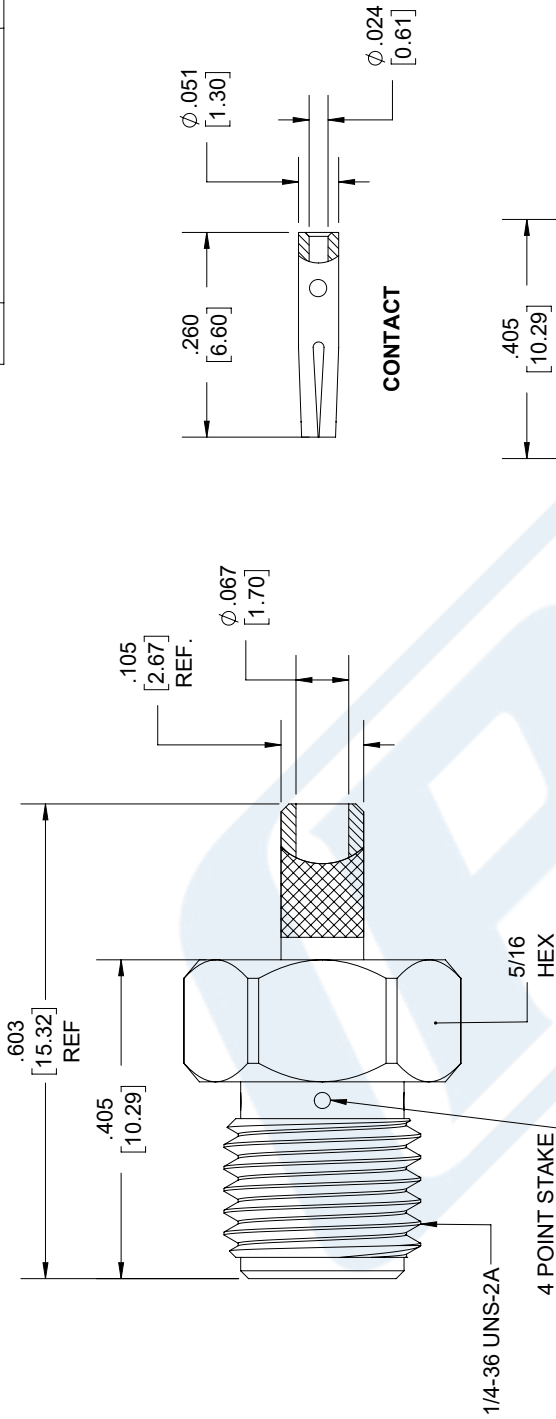
URL: <https://www.pasternack.com/sma-female-rg174-rg316-.100-pe-b100-pe-c100-connector-pe4414-p.aspx>

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# PE4414 CAD Drawing

SMA Female Connector Crimp/Solder Attachment for RG174,  
RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100

| REVISIONS |                 |          |            |
|-----------|-----------------|----------|------------|
| REV.      | DESCRIPTION     | DATE     | APPROVED   |
| A         | INITIAL RELEASE | 04/08/19 | S. CRESPIN |



## STRIPPING DIMENSIONS

### NOTES:

- CABLE ATTACHMENT:
  - OUTER: CRIMP.
  - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
  - FERRULE: .128 [3.25] HEX. CRIMP TOOL

|                                                                                                     |             |
|-----------------------------------------------------------------------------------------------------|-------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE IN INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |             |
| TOLERANCES:                                                                                         | FRACTIONS   |
| X±.2 [5.08]                                                                                         | ±.132       |
| XX±.01 [0.25]                                                                                       | ±.132       |
| XXX±.005 [0.13]                                                                                     | ANGLES ± 1° |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                     |             |
| THIRD-ANGLE PROJECTION                                                                              |             |

|                                                                                                                                                                                                                                     |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>PE PASTERNAK</b><br>an INFINITI brand<br>Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com |        |
| SIZE                                                                                                                                                                                                                                | A      |
| CAGE                                                                                                                                                                                                                                | 53919  |
| DRAWN BY                                                                                                                                                                                                                            | KDANG  |
| PART NUMBER                                                                                                                                                                                                                         | PE4414 |
| REV                                                                                                                                                                                                                                 | A      |

|                                                                                                                        |        |
|------------------------------------------------------------------------------------------------------------------------|--------|
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| SHEET                                                                                                                  | 1 OF 1 |
| SCALE                                                                                                                  | N/A    |

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## Low Loss Flexible LMR-100A-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex



### LMR-100A-UF

#### Configuration

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

#### Features

- Ultra Flexible Coax with Stranded Center Conductor
- Max Operating Frequency of 8 GHz
- Phase Velocity 66% VoP
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 0.25 inches

#### Applications

- RF Test Systems
- Antenna Installs
- Laboratory Applications
- General Purpose RF Interconnect
- Jumper Assemblies

#### Description

LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-100-UF coax cable is manufactured in an ultra flexible design and has a 50 Ohm impedance. This low loss and ultra flexible 50 Ohm coax cable LMR-100-UF is constructed with a 0.110 inch diameter and Black TPE jacket.

LMR-100-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.110 inch diameter and low loss ultra flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-100-UF TPE coax is constructed with PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-100-UF coax cable provides specs for this wire on its RF coax cable LMR-100-UF datasheet.

LMR-100-UF cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-100-UF coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

\* LMR™ is a trademark of Times Microwave Systems.

#### Electrical Specifications

| Description                          | Minimum | Typical       | Maximum | Units        |
|--------------------------------------|---------|---------------|---------|--------------|
| Frequency Range                      | DC      |               | 8       | GHz          |
| Impedance                            |         | 50            |         | Ohms         |
| Velocity of Propagation              |         | 66            |         | %            |
| Time Delay                           |         | 1.54 [5.05]   |         | ns/ft [ns/m] |
| Shielding Effectiveness              | 90      |               |         | dB           |
| Dielectric Withstanding Voltage (DC) |         |               | 500     | Vdc          |
| Jacket Spark                         |         |               | 2,000   | Vrms         |
| Inner Conductor DC Resistance        |         |               | 81      | Ohms/1000ft  |
| Outer Conductor DC Resistance        |         |               | 9.5     | Ohms/1000ft  |
| Nominal Capacitance                  |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Nominal Inductance                   |         | 0.077 [0.25]  |         | uH/ft [uH/m] |
| Input Power (Peak)                   |         |               | 600     | Watts        |

## Low Loss Flexible LMR-100A-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex



### LMR-100A-UF

#### Performance by Frequency Band

| Description           | F1    | F2   | F3    | F4    | F5   | Units    |
|-----------------------|-------|------|-------|-------|------|----------|
| Frequency             | 50    | 150  | 220   | 450   | 900  | MHz      |
| Attenuation, Typ      | 5.1   | 8.9  | 10.9  | 15.8  | 22.8 | dB/100ft |
|                       | 16.73 | 29.2 | 35.76 | 51.84 | 74.8 | dB/100m  |
| Input Power (CW), Max | 180   | 100  | 83    | 57    | 39   | Watts    |

| Description           | F6    | F7     | F8     | F9     | F10   | Units    |
|-----------------------|-------|--------|--------|--------|-------|----------|
| Frequency             | 1.5   | 1.8    | 2      | 2.5    | 5.8   | GHz      |
| Attenuation, Typ      | 30.1  | 33.2   | 35.2   | 39.8   | 64.1  | dB/100ft |
|                       | 98.75 | 108.92 | 115.49 | 130.58 | 210.3 | dB/100m  |
| Input Power (CW), Max | 29    | 27     | 25     | 22     | 13    | Watts    |

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.11 in [2.79 mm]        |
| Weight                          | 0.008 lbs/ft [0.01 kg/m] |
| Min. Bend Radius (Installation) | 0.25 in [6.35 mm]        |
| Min. Bend Radius (Repeated)     | 1 in [25.4 mm]           |
| Bending Moment                  | 0.1 lbs-ft [0.14 N-m]    |
| Tensile Strength                | 15 lbs [6.8 kg]          |
| Flat Plate Crush                | 10 lbs/in [0.18 kg/mm]   |

#### Construction Specifications

| Description     | Material and Plating | Diameter           |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, 7 Strand     | 0.018 in [0.46 mm] |
| Conductor Type  | Stranded             |                    |
| Dielectric      | PE                   | 0.06 in [1.52 mm]  |
| First Shield    | Aluminum Tape        | 0.068 in [1.73 mm] |
| Second Shield   | Tinned Copper        | 0.083 in [2.11 mm] |
| Jacket          | TPE, Black           | 0.11 in [2.79 mm]  |

#### Environmental Specifications

|                    |                  |
|--------------------|------------------|
| <b>Temperature</b> |                  |
| Operating Range    | -40 to +85 deg C |
| Installation Range | -40 to +85 deg C |
| Storage Range      | -70 to +85 deg C |

## Low Loss Flexible LMR-100A-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex



### LMR-100A-UF

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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URL: <https://www.pasternack.com/low-loss-flexible-lmr-100a-uf-tpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-100a-uf-p.aspx>

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LMR-100A-UF CAD Drawing

Low Loss Flexible LMR-100A-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex

