



## SMA Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS

### RF Connectors Technical Data Sheet

**PE4401**

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG188-DS, RG316-DS Interface Type
- Crimp/Solder Attachment
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 12.4 GHz
- Excellent VSWR of 1.21:1
- Gold Plated Brass Contact
- 30  $\mu$ m minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4401 SMA male connector with crimp/solder attachment for RG188-DS and RG316-DS is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 12.4 GHz and offers excellent VSWR of 1.21:1.

Our SMA male connector PE4401 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      |         | 12.4    | GHz   |
| VSWR                   |         |         | 1.21:1  |       |
| Operating Voltage (AC) |         |         | 335     | Vrms  |

#### Mechanical Specifications

##### Size

|               |                                 |
|---------------|---------------------------------|
| Length        | 0.874 in [22.2 mm]              |
| Width/Dia.    | 0.315 in [8.00 mm]              |
| Weight        | 0.013 lbs [5.9 g]               |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS PE4401](#)



## SMA Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS

### RF Connectors Technical Data Sheet

**PE4401**

#### Material Specifications

| Description  | Material | Plating                   |
|--------------|----------|---------------------------|
| Contact      | Brass    | Gold<br>30 µin minimum    |
| Insulation   | PTFE     |                           |
| Body         | Brass    | Nickel<br>100 µin minimum |
| Coupling Nut | Brass    | Nickel<br>100 µin minimum |
| Crimp Sleeve | 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 Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS 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.

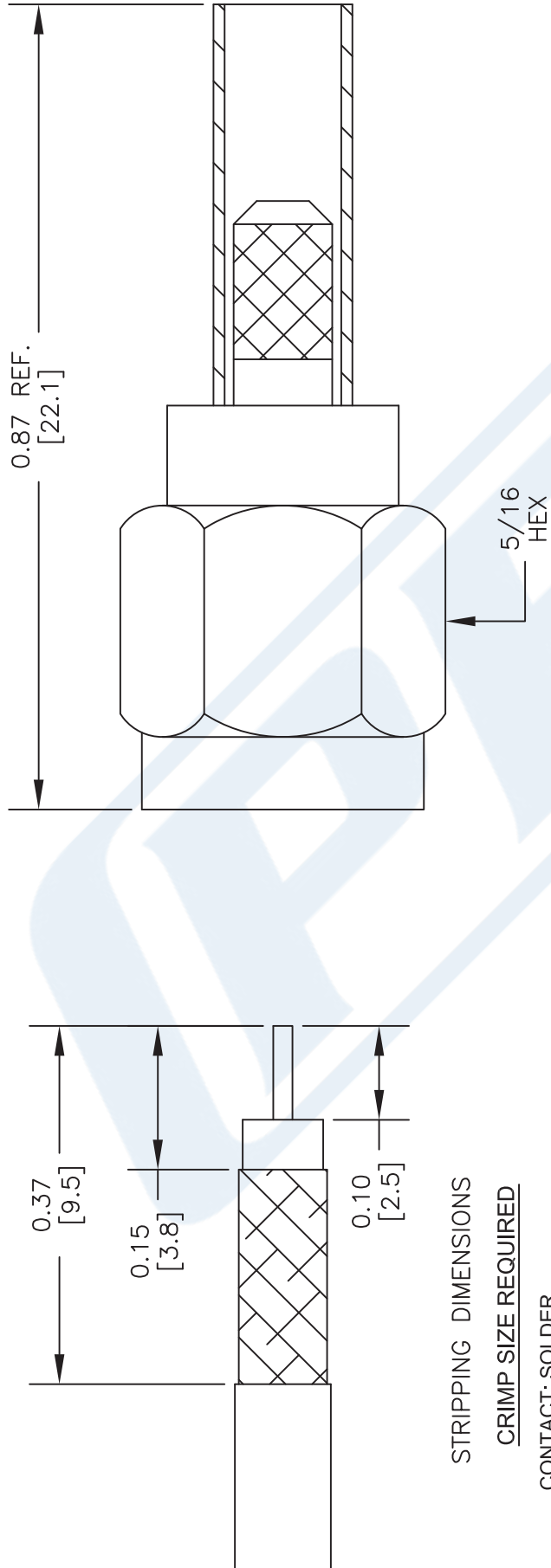
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS PE4401](#)

URL: <https://www.pasternack.com/sma-male-standard-rg188-ds-rg316-ds-connector-pe4401-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.

# PE4401 CAD Drawing

SMA Male Connector Crimp/Solder Attachment for RG188-DS, RG316-DS



DWG TITLE

**PE4401**

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.

REV. B

FSCM NO. 53919

CAD FILE 032612

SCALE N/A

SIZE A

2233

**PE PASTERNAK®**

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MMCX Plug Right Angle Connector Crimp/  
Solder Attachment For RG316-DS

TECHNICAL DATA SHEET

PE44784

**Configuration**

|                                          |              |
|------------------------------------------|--------------|
| Connector                                | MMCX Plug    |
| Connector Specification                  | BS EN 122340 |
| Connector Interface Type                 | RG316-DS     |
| Cable Attachment Method (Shield/Contact) | Crimp/Solder |
| Body Style                               | Right Angle  |

**Electrical Specifications**

|                                  |         |
|----------------------------------|---------|
| Frequency Range, GHz             | DC to 6 |
| Impedance, Ohms                  | 50      |
| Maximum VSWR                     | 1.35:1  |
| Maximum Operating Voltage, Volts | 250     |

**Mechanical Specifications**

**Temperature**

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -55 to +155 |
|------------------------|-------------|

**Size**

|                     |              |
|---------------------|--------------|
| Length, in [mm]     | 0.53 [13.46] |
| Width/Dia., in [mm] | 0.28 [7.11]  |
| Weight, lbs [g]     | 0.003 [1.36] |

**Connector**

|                               |                 |
|-------------------------------|-----------------|
| Type                          | MMCX Plug       |
| Contact Material and Plating  | Brass, Gold     |
| Contact Plating Specification | 30μ in. minimum |
| Body Material and Plating     | Brass, Gold     |
| Body Plating Specification    | 3μ in. minimum  |
| Dielectric Type               | Teflon          |

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

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug Right Angle Connector Crimp/Solder Attachment For RG316-DS PE44784](#)

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MMCX Plug Right Angle Connector Crimp/  
Solder Attachment For RG316-DS

TECHNICAL DATA SHEET

PE44784

**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

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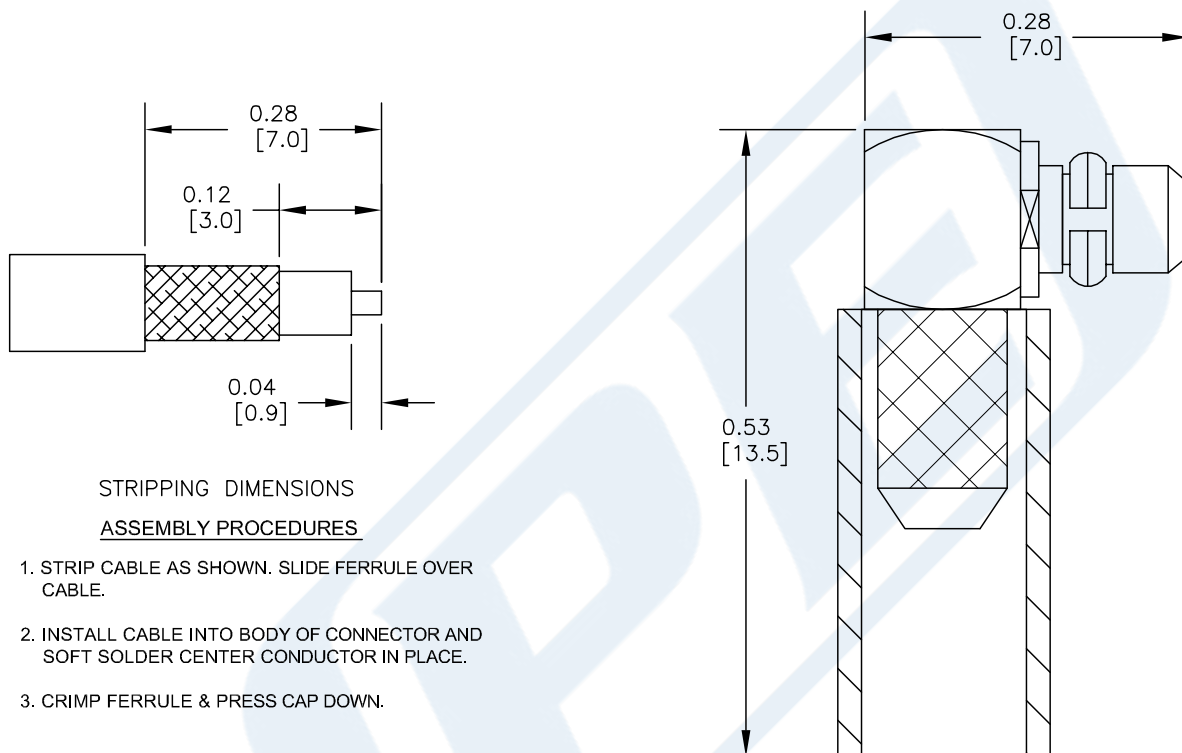
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URL: <http://www.pasternack.com/mmcx-plug-standard-rg316-ds-connector-pe44784-p.aspx>

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# PE44784 CAD Drawing

MMCX Plug Right Angle Connector Crimp/Solder Attachment For RG316-DS



## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE & PRESS CAP DOWN.

## CRIMP SIZE REQUIRED

FERRULE: .128" HEX CRIMP TOOL



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DWG TITLE

**PE44784**

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4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 021814

SCALE N/A

SIZE A

2233

## Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket

### RF Cables Technical Data Sheet

**RG188-DS**

#### Configuration

- Flexible Cable
- 2 Shield(s)

#### Electrical Specifications

| Description                          | Minimum | Typical     | Maximum | Units        |
|--------------------------------------|---------|-------------|---------|--------------|
| Frequency Range                      | DC      |             | 10      | GHz          |
| Impedance                            |         | 50          |         | Ohms         |
| Dielectric Withstanding Voltage (AC) |         |             | 2,000   | Vrms         |
| Nominal Capacitance                  |         | 32 [104.99] |         | pF/ft [pF/m] |

#### Performance by Frequency Band

| Description           | F1    | F2    | F3    | F4     | F5     | Units    |
|-----------------------|-------|-------|-------|--------|--------|----------|
| Frequency             | 0.01  | 0.1   | 1     | 5      | 10     | GHz      |
| Attenuation, Typ      | 3.8   | 11.5  | 30    | 79     | 133    | dB/100ft |
|                       | 12.47 | 37.73 | 98.43 | 259.19 | 436.35 | dB/100m  |
| Input Power (CW), Max | 1,250 | 450   | 160   | 57     |        | Watts    |

#### Mechanical Specifications

|          |                          |
|----------|--------------------------|
| Diameter | 0.118 in [3 mm]          |
| Weight   | 0.016 lbs/ft [0.02 Kg/m] |

#### Construction Specifications

| Description     | Material and Plating                       | Diameter           |
|-----------------|--------------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 7 Strands       | 0.02 in [0.51 mm]  |
| Conductor Type  | Stranded                                   |                    |
| Dielectric      | PTFE                                       | 0.06 in [1.52 mm]  |
| First Shield    | Silver Plated Copper Braid<br>90% coverage | 0.078 in [1.98 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket RG188-DS](#)



## Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket

### RF Cables Technical Data Sheet

### RG188-DS

|               |                                            |                    |
|---------------|--------------------------------------------|--------------------|
| Second Shield | Silver Plated Copper Braid<br>90% coverage | 0.096 in [2.44 mm] |
| Jacket        | PTFE, White                                | 0.118 in [3 mm]    |

#### Environmental Specifications

##### Temperature

Operating Range -55 to +200 deg C

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

#### Plotted and Other Data

Notes:

Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket 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: [Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket RG188-DS](#)

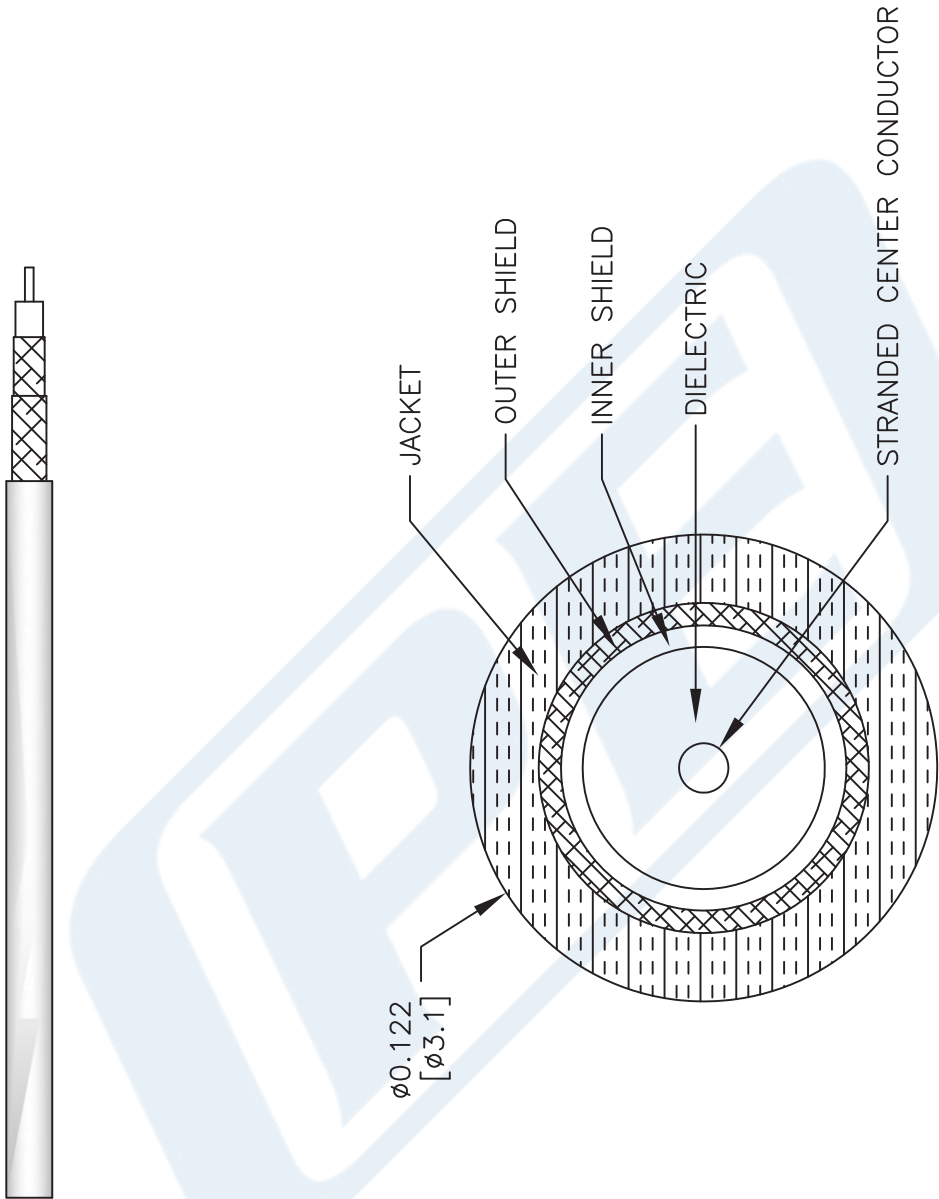
URL: <https://www.pasternack.com/flexible-0.122-rg188-ds-50-ohm-coax-cable-ptfe-jacket-rg188-ds-p.aspx>

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RG188-DS CAD Drawing

Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket



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DWG TITLE  
**RG188-DS**

CAGE CODE 53919

CAD FILE 062817

SCALE N/A

SIZE A

2233



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