



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

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**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

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

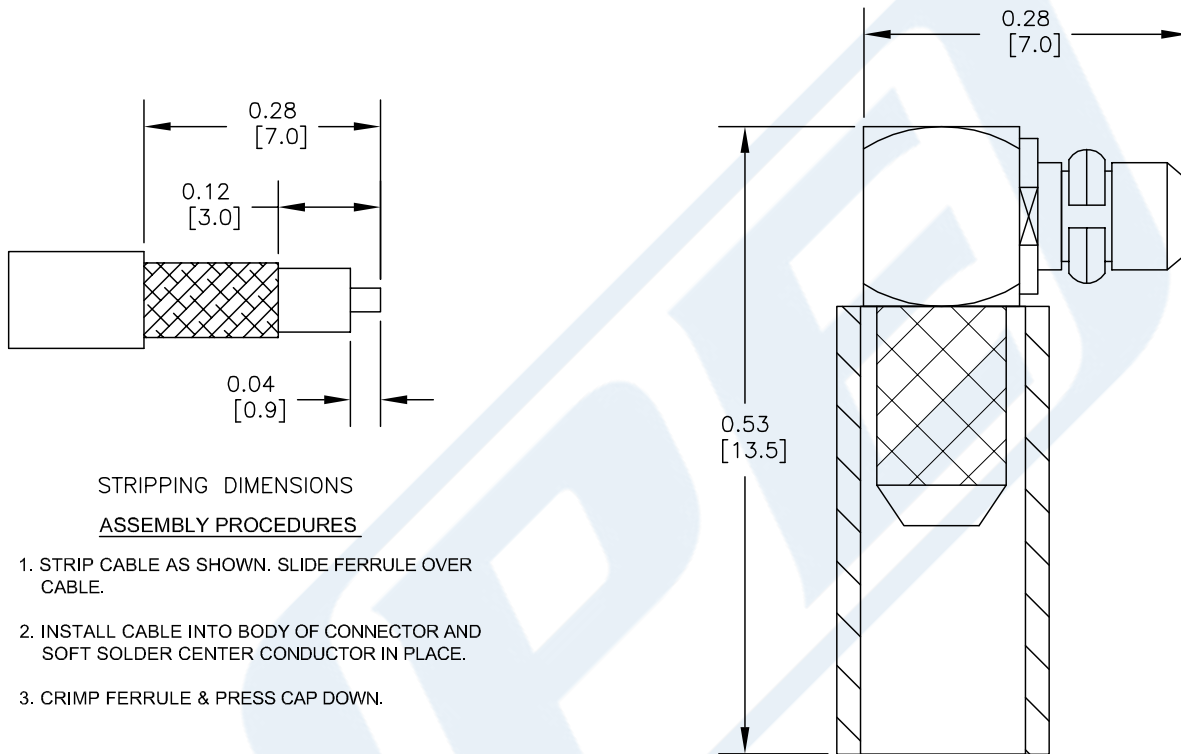
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URL: <http://www.pasternack.com/mmcx-plug-standard-rg316-ds-connector-pe44784-p.aspx>

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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



Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE

**PE44784**

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.

FSCM NO. 53919

CAD FILE 021814

SCALE N/A

SIZE A

2233



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

### RF Connectors Technical Data Sheet

**PE4408**

#### Configuration

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

#### Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.4:1
- Gold Plated Brass Contact
- 50  $\mu$ m minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4408 SMA male right angle 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 3 GHz and offers good VSWR of 1.4:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE4408 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      |         | 3       | GHz   |
| VSWR                                 |         |         | 1.4:1   |       |
| Operating Voltage (AC)               |         |         | 335     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 750     | Vrms  |

#### Mechanical Specifications

##### Size

|               |                                 |
|---------------|---------------------------------|
| Length        | 0.61 in [15.49 mm]              |
| Width/Dia.    | 0.315 in [8.00 mm]              |
| Height        | 0.69 in [17.53 mm]              |
| Weight        | 0.016 lbs [7.26 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 Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS PE4408](#)



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

### RF Connectors Technical Data Sheet

**PE4408**

#### Material Specifications

| Description  | Material | Plating                   |
|--------------|----------|---------------------------|
| Contact      | Brass    | Gold<br>50 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:

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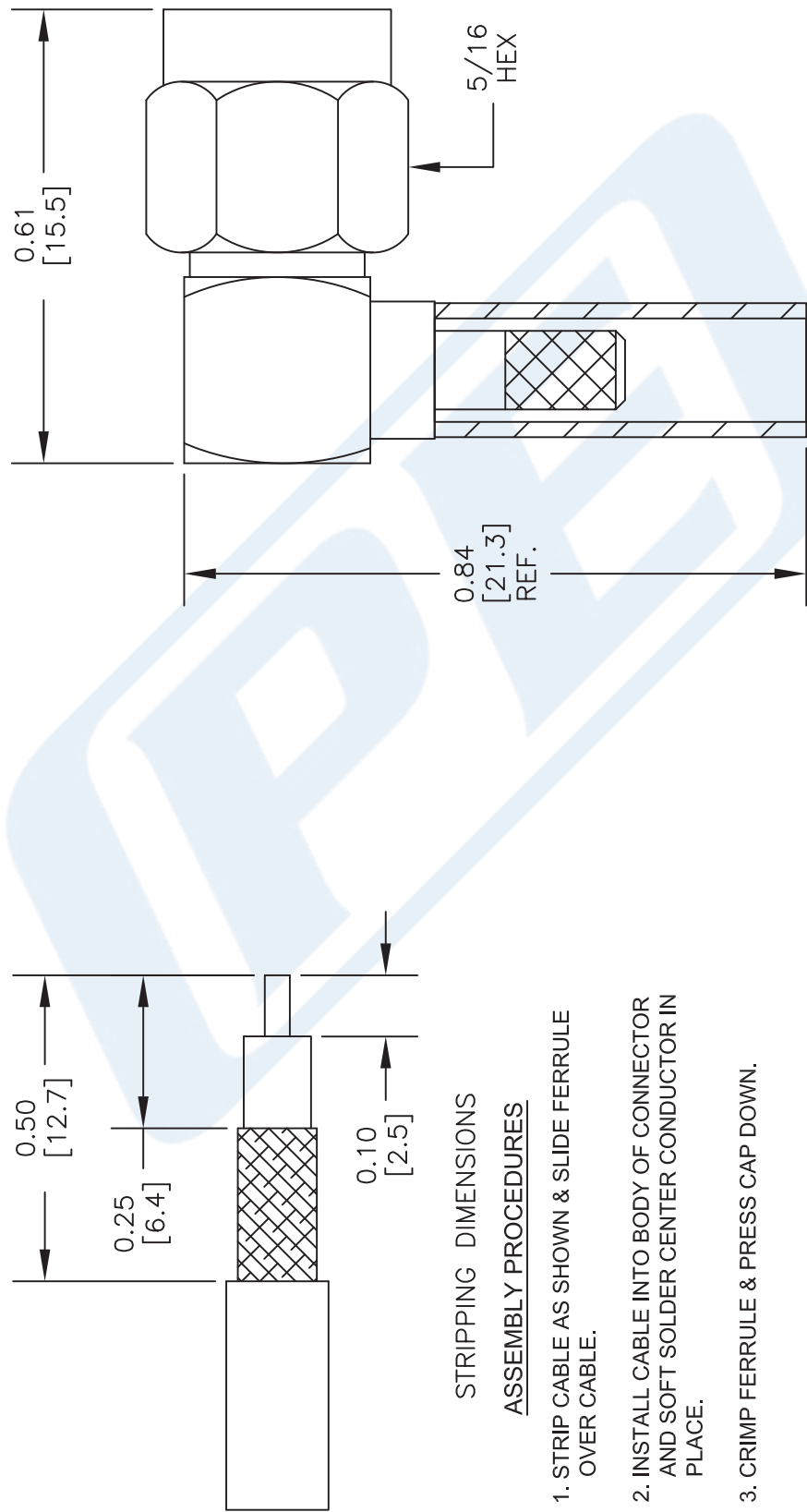
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URL: <https://www.pasternack.com/sma-male-rg188-ds-rg316-ds-connector-pe4408-p.aspx>

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PE4408 CAD Drawing

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



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

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

CRIMP SIZE REQUIRED

FERRULE: .151" HEX CRIMP TOOL



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DWG TITLE

PE4408

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

FSCM NO. 53919

CAD FILE 031615

SCALE N/A

SIZE A

2233

## Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket

### TECHNICAL DATA SHEET

### RG316-DS

Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket

#### Configuration

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| Inner Conductor Material and Plating | Copper Clad Steel, Silver                              |
| Dielectric Type                      | PTFE                                                   |
| Shield Materials                     | Silver Plated Copper Braid, Silver Plated Copper Braid |
| Jacket Material and Color            | FEP, Tan                                               |

#### Electrical Specifications

|                                  |              |
|----------------------------------|--------------|
| Impedance, Ohms                  | 50           |
| Velocity of Propagation, %       | 70           |
| Maximum Operating Frequency, GHz | 3            |
| Capacitance, pF/ft [pF/m]        | 29.4 [96.46] |
| Maximum Operating Voltage, Volts | 1,200        |

#### Electrical Specifications by Frequency

##### Frequency 1

|                                 |           |
|---------------------------------|-----------|
| Frequency, MHz                  | 100       |
| Attenuation, dB/100ft [dB/100m] | 8 [26.25] |

##### Frequency 2

|                                 |              |
|---------------------------------|--------------|
| Frequency, MHz                  | 400          |
| Attenuation, dB/100ft [dB/100m] | 16.2 [53.15] |

##### Frequency 3

|                                 |              |
|---------------------------------|--------------|
| Frequency, MHz                  | 1000         |
| Attenuation, dB/100ft [dB/100m] | 26.1 [85.63] |

##### Frequency 4

|                                 |               |
|---------------------------------|---------------|
| Frequency, GHz                  | 3             |
| Attenuation, dB/100ft [dB/100m] | 46.7 [153.22] |

#### Mechanical Specifications

##### Temperature

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -55 to +200 |
|------------------------|-------------|

##### Inner Conductor

|                   |                   |
|-------------------|-------------------|
| Number of Strands | 7                 |
| Material          | Copper Clad Steel |
| Plating           | Silver            |
| Diameter, in [mm] | 0.02 [0.51]       |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

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## Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket

## TECHNICAL DATA SHEET

## RG316-DS

**Dielectric:**

|                   |             |
|-------------------|-------------|
| Type              | PTFE        |
| Diameter, in [mm] | 0.06 [1.52] |

**Shield:**

|                   |                            |
|-------------------|----------------------------|
| Number of         | 2                          |
| Material 1        | Silver Plated Copper Braid |
| Material 2        | Silver Plated Copper Braid |
| Diameter, in [mm] | 0.096 [2.44]               |

**Jacket:**

|                                       |              |
|---------------------------------------|--------------|
| Material                              | FEP          |
| Diameter, in [mm]                     | 0.114 [2.9]  |
| Color                                 | Tan          |
| One Time Minimum Bend Radius, in [mm] | 0.59 [14.99] |
| Weight, lbs/ft [Kg/m]                 | 0.016 [0.02] |

**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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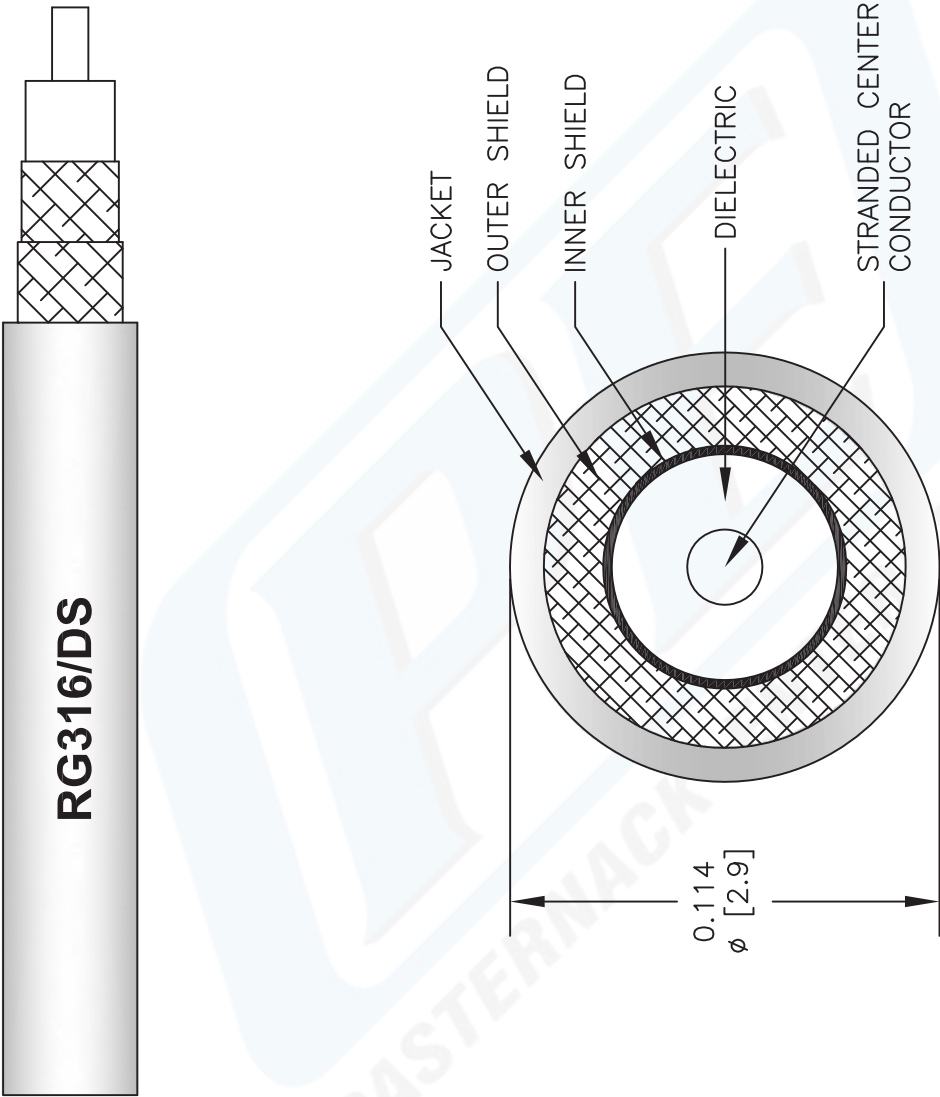
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URL: <http://www.pasternack.com/flexible-0.114-rg316-ds-50-ohm-coax-cable-fep-jacket-rg316-ds-p.aspx>

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RG316-DS CAD Drawing

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DWG TITLE  
**RG316-DS**

FSCM NO. 53919

CAD FILE 041812-B  
SCALE N/A  
SIZE A  
2233

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