



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

### RF Connectors Technical Data Sheet

**PE44505**

#### Configuration

- QMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- RG316-DS, RG188-DS Interface Type
- Crimp/Solder Attachment

#### Features

- Max. Operating Frequency 18 GHz
- Gold Plated Brass Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE44505 QMA male right angle connector with crimp/solder attachment for RG316-DS and RG188-DS is part of our full line of RF components available for same-day shipping. Our QMA male connector operates up to a maximum frequency of 18 GHz. Its right angle body geometry allows for easier connections in tight spaces.

Our QMA male right angle connector PE44505 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   |
| Operating Voltage (AC)        |         |         | 350     | Vrms  |
| Test Voltage (AC)             |         |         | 750     | Vrms  |
| Inner Conductor DC Resistance |         |         | 3       | mOhms |
| Outer Conductor DC Resistance |         |         | 2.5     | mOhms |
| Insulation Resistance         | 5,000   |         |         | MOhms |

#### Performance by Frequency

| Description     | F1      | F2     | F3     | F4 | F5 | Units |
|-----------------|---------|--------|--------|----|----|-------|
| Frequency Range | DC to 3 | 3 to 4 | 4 to 6 |    |    | GHz   |
| VSWR, Max       | 1.11:1  | 1.14:1 | 1.29:1 |    |    |       |

#### Electrical Specification Notes:

RF leakage: 95 dB (up to 2 GHz), 80 dB (up to 4 GHz), 70 dB (up to 6 GHz) min.

Insertion loss =  $0.05 \times \sqrt{f(\text{GHz})}$  dB max up to 6 GHz.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE44505](#)



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

**RF Connectors Technical Data Sheet**

**PE44505**

**Mechanical Specifications**

**Size**

|               |                    |
|---------------|--------------------|
| Length        | 0.63 in [16 mm]    |
| Width/Dia.    | 0.41 in [10.41 mm] |
| Height        | 0.71 in [18.03 mm] |
| Weight        | 0.006 lbs [2.72 g] |
| Mating Cycles | 100 Cycles         |

**Material Specifications**

| Description     | Material      | Plating   |
|-----------------|---------------|-----------|
| Contact         | Brass         | Gold      |
| Insulation      | PTFE          |           |
| Outer Conductor | Spring Bronze | Tri-Metal |
| Body            | Brass         | Tri-Metal |

**Environmental Specifications**

**Temperature**

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
| Storage Range   | -40 to +85 deg C |

|               |                              |
|---------------|------------------------------|
| Humidity      | IEC 60169-1 16.3 (96 hours)  |
| Vibration     | IEC 60068-2-64 random        |
| Thermal Shock | IEC 60169-1 16.4 (-40/+85°C) |
| Salt Spray    | IEC 60109-1 16.7 (48 hrs)    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE44505](#)



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

**RF Connectors Technical Data Sheet**

**PE44505**

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

**Plotted and Other Data**

Notes:

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

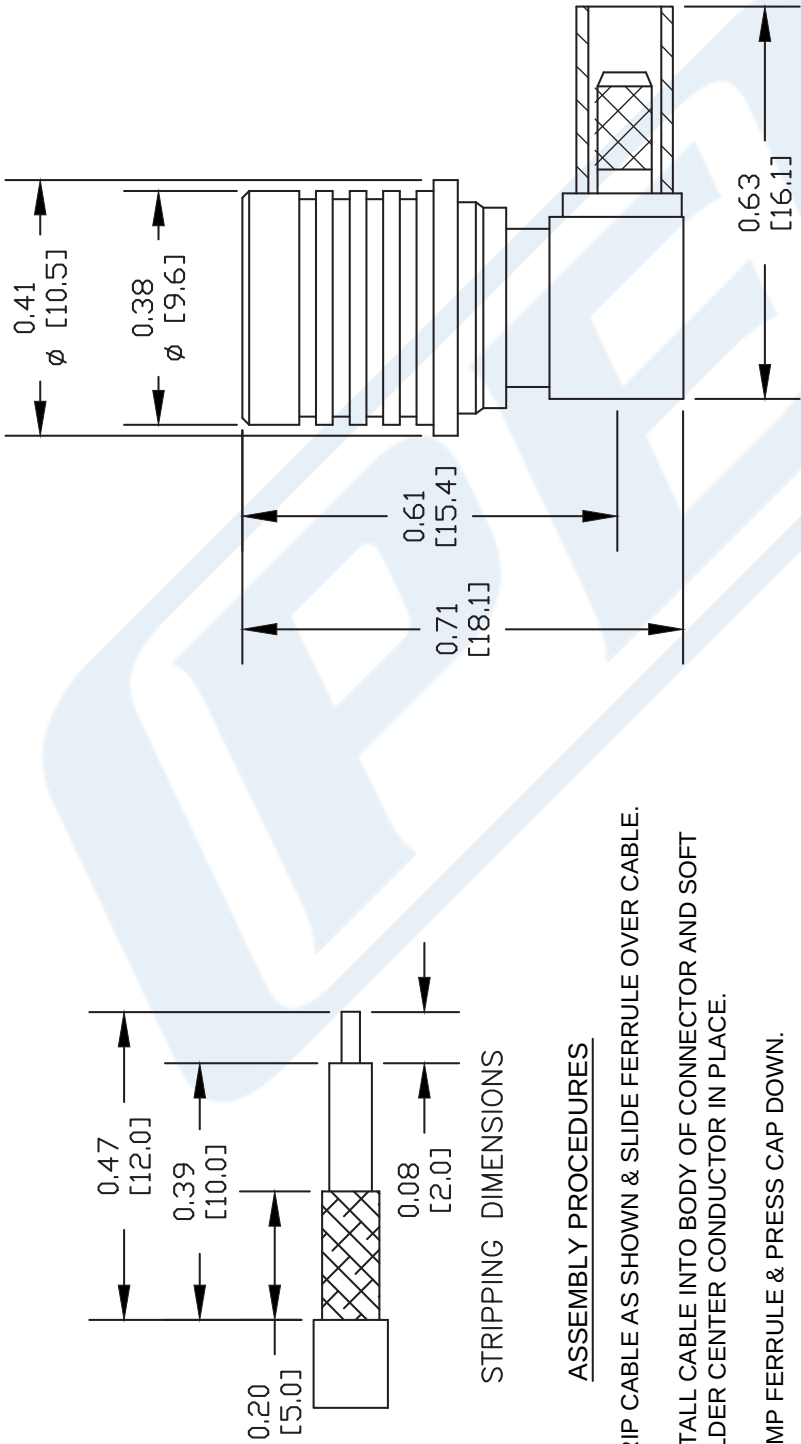
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE44505](#)

URL: <https://www.pasternack.com/qma-male-standard-rg316-ds-connector-pe44505-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.

PE44505 CAD Drawing

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



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: 3.25 CRIMP TOOL

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  
**PE44505**

REV. A FSCM NO. 53919 CAD FILE 090711-A SCALE N/A SIZE A 2231

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## 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:

SMA Male Right Angle 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.

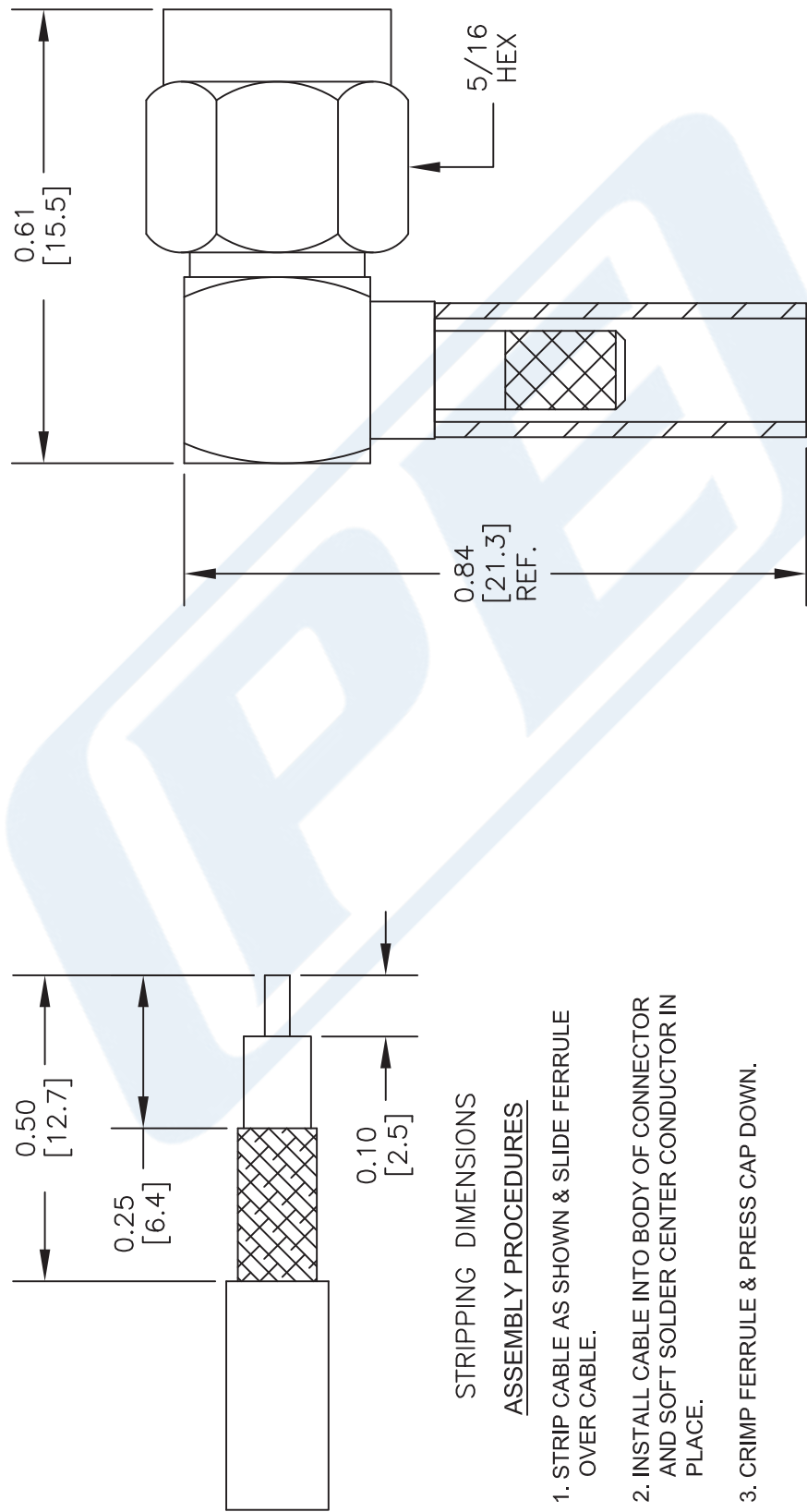
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Crimp/Solder Attachment for RG188-DS, RG316-DS PE4408](#)

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

DWG TITLE

PE4408

- 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 031615

SCALE N/A

SIZE A

2233



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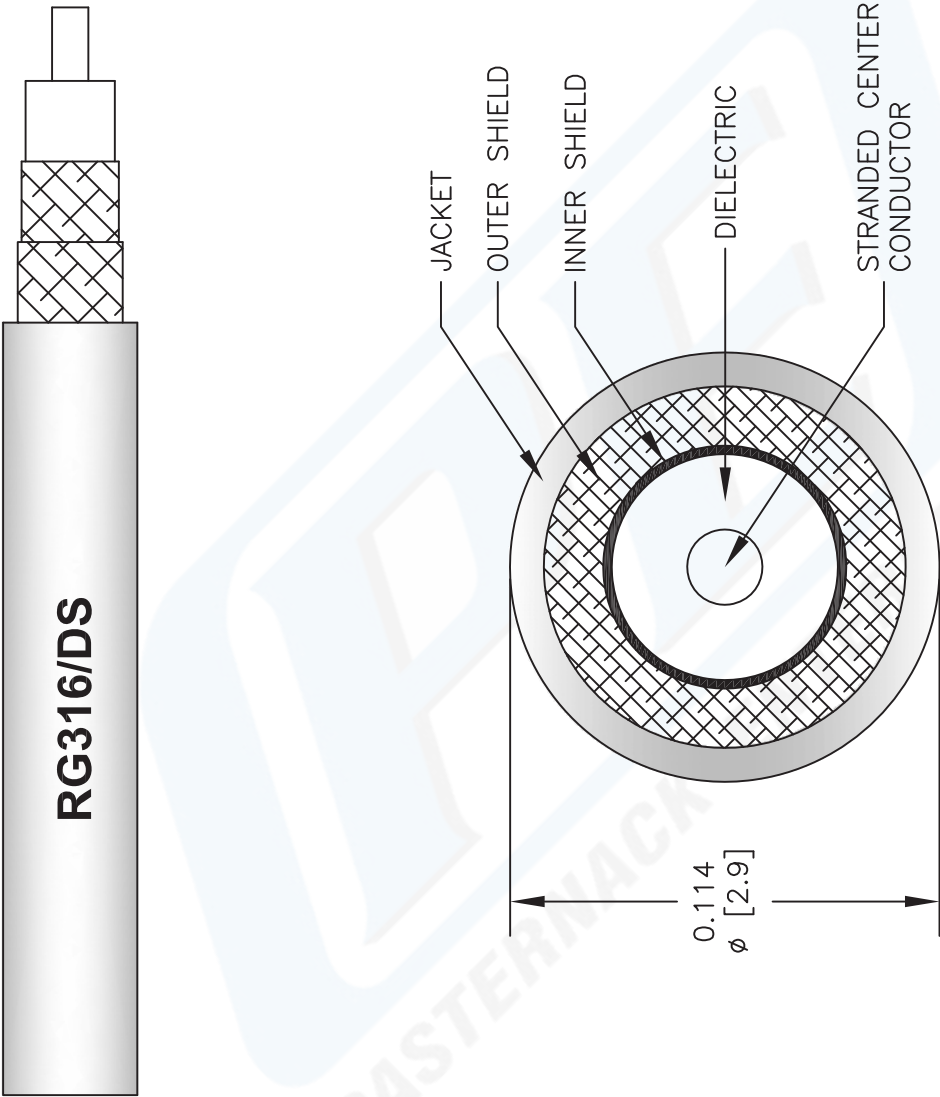
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

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

Flexible RG316 Coax Cable Double Shielded with Tan FEP Jacket



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3. DIMENSIONS ARE IN INCHES [mm].

|           |          |       |          |          |      |
|-----------|----------|-------|----------|----------|------|
| DWG TITLE | RG316-DS |       |          |          |      |
|           | FSCM NO. | 53919 | CAD FILE | 041812-B |      |
|           |          | SCALE | N/A      | SIZE     | A    |
|           |          |       |          |          | 2233 |



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