PASTERNACK®
THE ENGINEER'S RF SOURCE

# 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 x sqrt(fGHz) 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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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# QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-DS



## 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

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**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.

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



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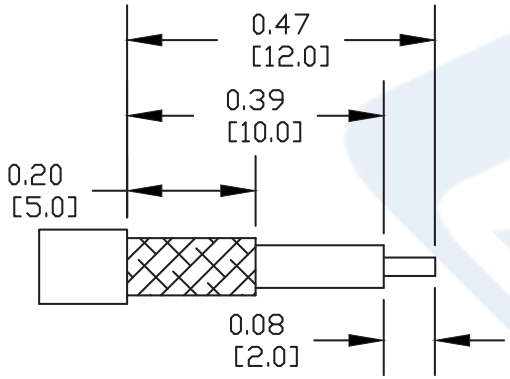
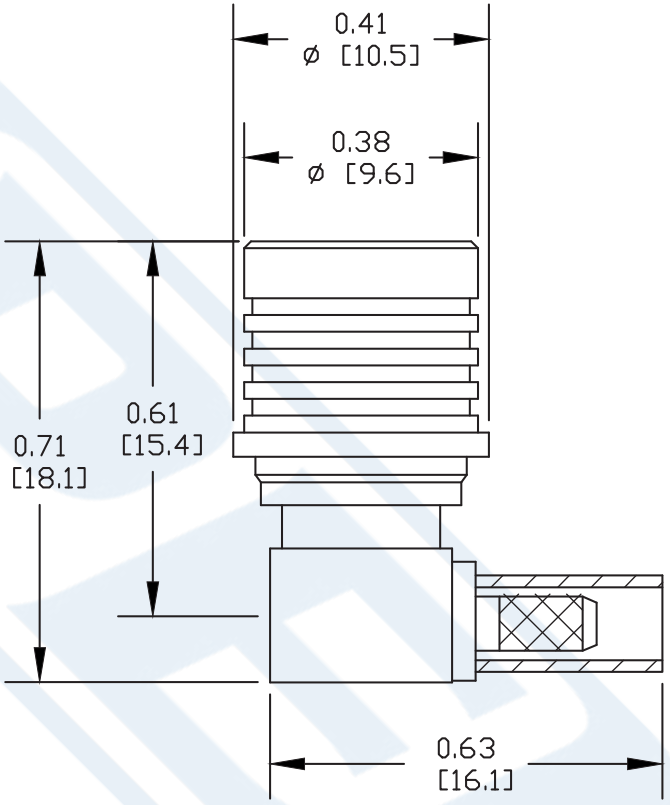
# PE44505 CAD Drawing

QMA Male Right Angle Connector Crimp/Solder Attachment for RG316-DS, RG188-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: 3.25 CRIMP TOOL

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DWG TITLE

**PE44505**

NOTES:
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3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

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

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## RF Connectors Technical Data Sheet PE44505

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- Right Angle Body Geometry
- RG316-DS, RG188-DS Interface Type
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## Mechanical Specifications

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| Mating Cycles | 100 Cycles |

**Material Specifications**

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

**Temperature**

| | |
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| Storage Range | -40 to +85 deg C |
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**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

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



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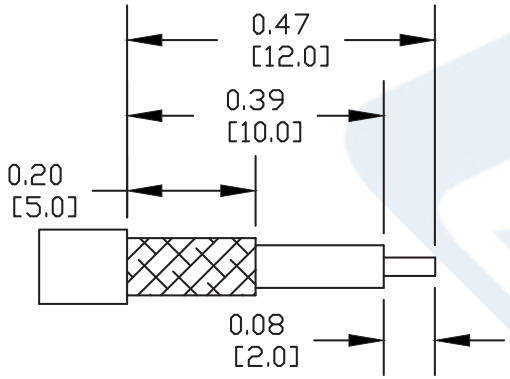
# PE44505 CAD Drawing

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

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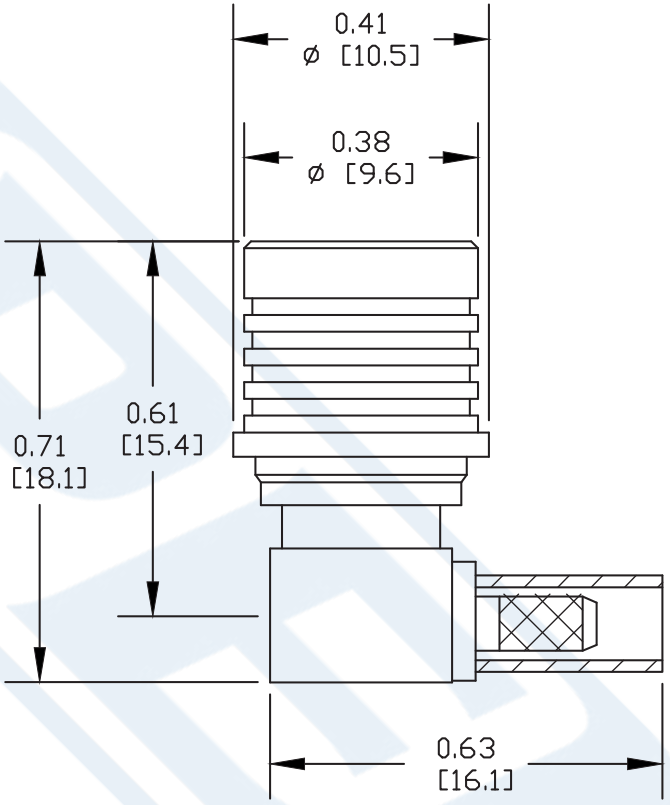


## ASSEMBLY PROCEDURES

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: 3.25 CRIMP TOOL

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DWG TITLE

**PE44505**

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

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

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# 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

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# Flexible RG188 Coax Cable Double Shielded with White PTFE Jacket



| | | |
|---|---|---|
| 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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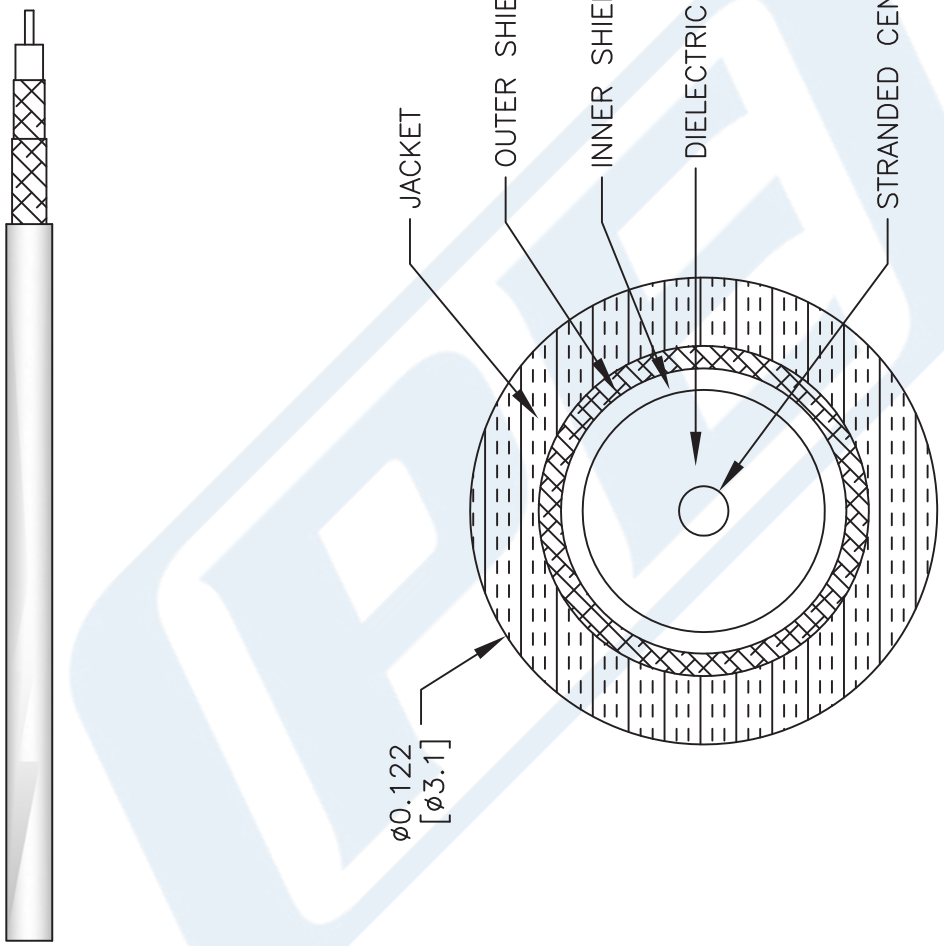
# RG188-DS CAD Drawing

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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