PASTERNACK®
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# 75 Ohm MCX Jack Connector Crimp/Solder Attachment for RG179, RG187

## RF Connectors Technical Data Sheet PE44300

## Configuration

- MCX Jack Connector
- MIL-C-39012
- 75 Ohms
- Straight Body Geometry
- RG179, RG187 Interface Type
- Crimp/Solder Attachment

## Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.37:1
- Gold over Nickel Plated Beryllium Copper Contact
- 30 µin minimum contact plating

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44300 75 ohm MCX jack connector with crimp/solder attachment for RG179 and RG187 is part of our full line of RF components available for same-day shipping. Our MCX jack connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.37:1.

Our 75 ohm MCX jack connector PE44300 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 | | 6 | GHz |
| VSWR | | | 1.37:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 1,000 | Vrms |
| High Potential Voltage at 4 and 7 MHz | | | 700 | Vrms |
| Corona Discharge at 70,000 feet | | | 250 | Vrms |
| Insulation Resistance | 1,000 | | | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 75 Ohm MCX Jack Connector Crimp/Solder Attachment for RG179, RG187 PE44300

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# 75 Ohm MCX Jack Connector Crimp/Solder Attachment for RG179, RG187

## RF Connectors Technical Data Sheet PE44300

### Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency Range | DC to 1 | | | | | GHz |
| Insertion Loss, Max | 0.1 | | | | | dB |

## Mechanical Specifications

### Size

| | |
|---|---|
| Length | 0.837 in [21.26 mm] |
| Width/Dia. | 0.234 in [5.94 mm] |
| Weight | 0.006 lbs [2.72 g] |
| Mating Cycles | 500 Cycles |

### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold over Nickel<br>30 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Gold over Nickel<br>10 µin minimum |

## Environmental Specifications

### Temperature

| | |
|---|---|
| Operating Range | -65 to +165 deg C |
| Shock | MIL-STD-202, Method 102, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition B |
| Thermal Shock | MIL-STD-202, Method 107, Condition B |
| Salt Spray | MIL-STD-202, Method 101, Condition B |

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# 75 Ohm MCX Jack Connector Crimp/Solder Attachment for RG179, RG187



**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

Notes:

75 Ohm MCX Jack Connector Crimp/Solder Attachment for RG179, RG187 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: 75 Ohm MCX Jack Connector Crimp/Solder Attachment for RG179, RG187 PE44300

URL: https://www.pasternack.com/mcx-jack-standard-rg179-rg187-connector-pe44300-p.aspx

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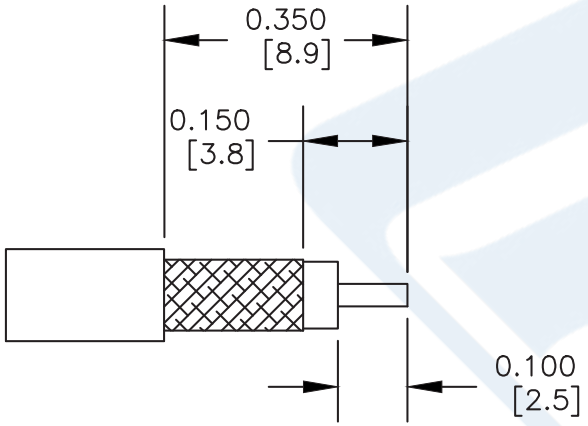
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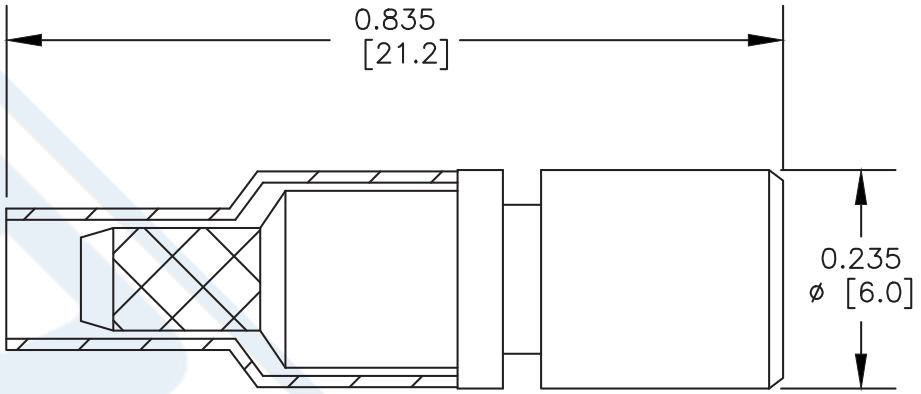
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# PE44300 CAD Drawing

75 Ohm MCX Jack Connector Crimp/Solder Attachment for RG179, RG187




STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. SLIDE FERRULE ONTO CABLE AS SHOWN & TIN CENTER CONDUCTOR.
2. INSERT DIELECTRIC AND CENTER CONDUCTOR INTO BODY. SOLDER CENTER CONDUCTOR TO CONTACT THROUGH HOLE IN BODY. REMOVE EXCESS SOLDER. SLIDE FERRULE FORWARD & CRIMP.

CRIMP SIZE REQUIRED

FERRULE: .128" HEX CRIMP TOOL

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DWG TITLE

**PE44300**

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 010603 | SCALE N/A | SIZE A | 127 |
|---|---|---|---|---|

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THE ENGINEER'S RF SOURCE

# 75 Ohm SMB Plug Connector Crimp/Solder Attachment for RG179, RG187




## RF Connectors Technical Data Sheet PE4248

### Configuration

- SMB Plug Connector
- 75 Ohms
- Straight Body Geometry
- RG179, RG187 Interface Type
- Crimp/Solder Attachment

### Features

- Max. Operating Frequency 1,000 MHz
- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4248 75 ohm SMB plug connector with crimp/solder attachment for RG179 and RG187 is part of our full line of RF components available for same-day shipping. Our SMB plug connector operates up to a maximum frequency of 1,000 MHz.

Our 75 ohm SMB plug connector PE4248 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 | | 1,000 | MHz |
| Operating Voltage (AC) | | | 335 | Vrms |
| Inner Conductor DC Resistance | | | 6 | mOhms |
| Outer Conductor DC Resistance | | | 1 | mOhms |
| Insulation Resistance | 5,000 | | | MOhms |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 0.818 in [20.78 mm] |
| Width/Dia. | 0.366 in [9.30 mm] |
| Weight | 0.011 lbs [4.99 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 75 Ohm SMB Plug Connector Crimp/Solder Attachment for RG179, RG187 PE4248

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# 75 Ohm SMB Plug Connector Crimp/Solder Attachment for RG179, RG187



## Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold<br>30 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Nickel<br>2.5 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:

75 Ohm SMB Plug Connector Crimp/Solder Attachment for RG179, RG187 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: 75 Ohm SMB Plug Connector Crimp/Solder Attachment for RG179, RG187 PE4248

URL: https://www.pasternack.com/smb-plug-standard-rg179-rg187-connector-pe4248-p.aspx

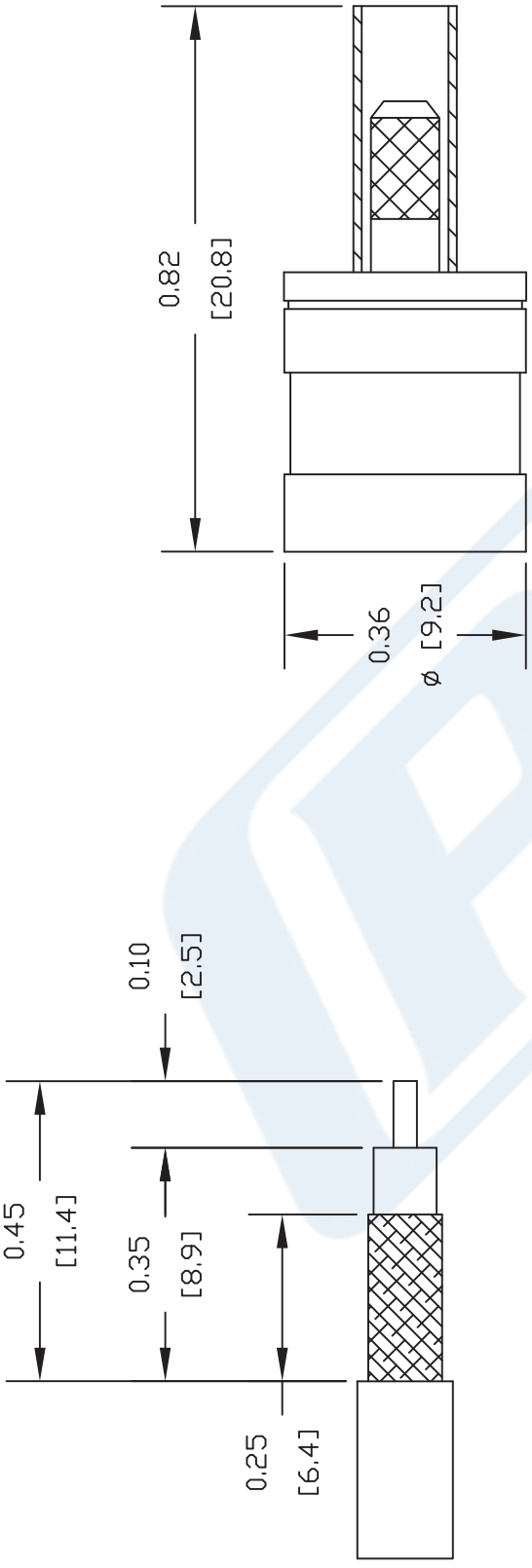
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# PE4248 CAD Drawing

75 Ohm SMB Plug Connector Crimp/Solder Attachment for RG179, RG187




STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .128" HEX 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 **PE4248**

| REV. - | FSCM NO. 53919 | CAD FILE 042309 | SCALE N/A | SIZE A | 147 |
|---|---|---|---|---|---|

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# 75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket

## TECHNICAL DATA SHEET RG187A/U

75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket

### Configuration

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

### Electrical Specifications

| | |
|---|---|
| Impedance, Ohms | 75 |
| Velocity of Propagation, % | 69.5 |
| Maximum Operating Frequency, GHz | 3 |
| Capacitance, pF/ft [pF/m] | 22 [72.18] |
| Maximum Operating Voltage, Volts | 900 |
| Dielectric Withstanding Voltage, Vrms | 1,500 |

**Electrical Specifications by Frequency**
**Frequency 1**

| | |
|---|---|
| Frequency, MHz | 400 |
| Attenuation, dB/100ft [dB/100m] | 21 [68.9] |
| Power Handling, KWatts | 1,400 |

### Mechanical Specifications

**Inner Conductor**

| | |
|---|---|
| Number of Strands | 7 |
| Material | Copper Clad Steel |
| Plating | Silver |
| Diameter, in [mm] | 0.012 [0.3] |

**Dielectric:**

| | |
|---|---|
| Type | PTFE |
| Diameter, in [mm] | 0.063 [1.6] |

**Shield:**

| | |
|---|---|
| Number of | 1 |
| Material 1 | Silver Plated Copper Braid |
| Diameter, in [mm] | 0.081 [2.06] |

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket RG187A/U

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.

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# 75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket

## TECHNICAL DATA SHEET RG187A/U

**Jacket:**

| | |
|---|---|
| Material | PTFE |
| Diameter, in [mm] | 0.11 [2.79] |
| Color | White |
| Weight, lbs/ft [Kg/m] | 0.011 [0.02] |

**Compliance Certifications** (visit www.Pasternack.com for current document)

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

**Plotted and Other Data**

| | |
|---|---|
| Notes: | Values at 25 °C, sea level |

75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket 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: 75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket RG187A/U

URL: http://www.pasternack.com/flexible-0.110-rg187-75-ohm-coax-cable-ptfe-jacket-rg187a-u-p.aspx

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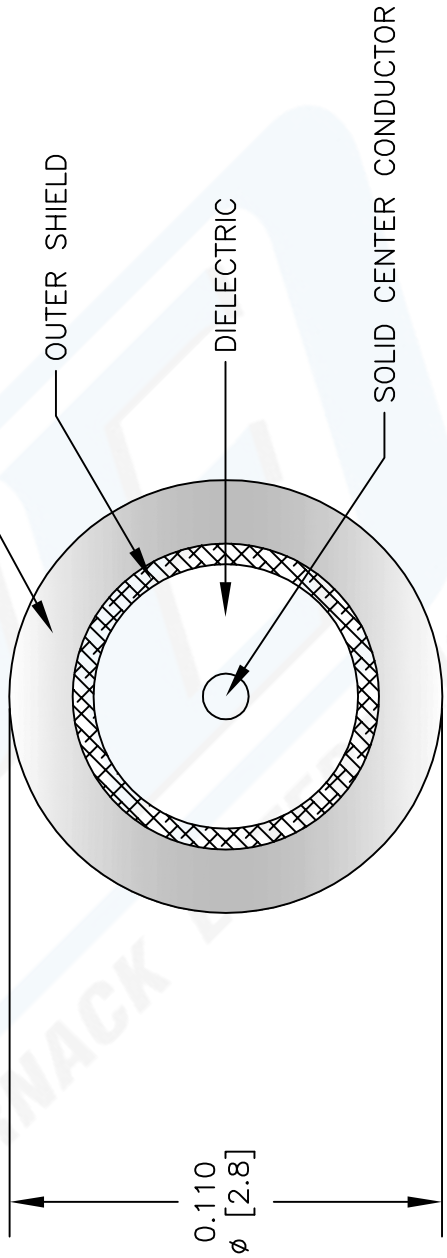
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# RG187A/U CAD Drawing

75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket




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].

| | | | |
|---|---|---|---|
| CAD FILE 041812-B | SCALE N/A | SIZE A | 2233 |
| REV. B | FSCM NO. 53919 | | |

DWG TITLE **RG187A/U**

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