



## 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  $\mu$ m 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<br>at 4 and 7 MHz |         |         | 700     | Vrms  |
| Corona Discharge<br>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](#)



## 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

### RF Connectors Technical Data Sheet

**PE44300**

**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.

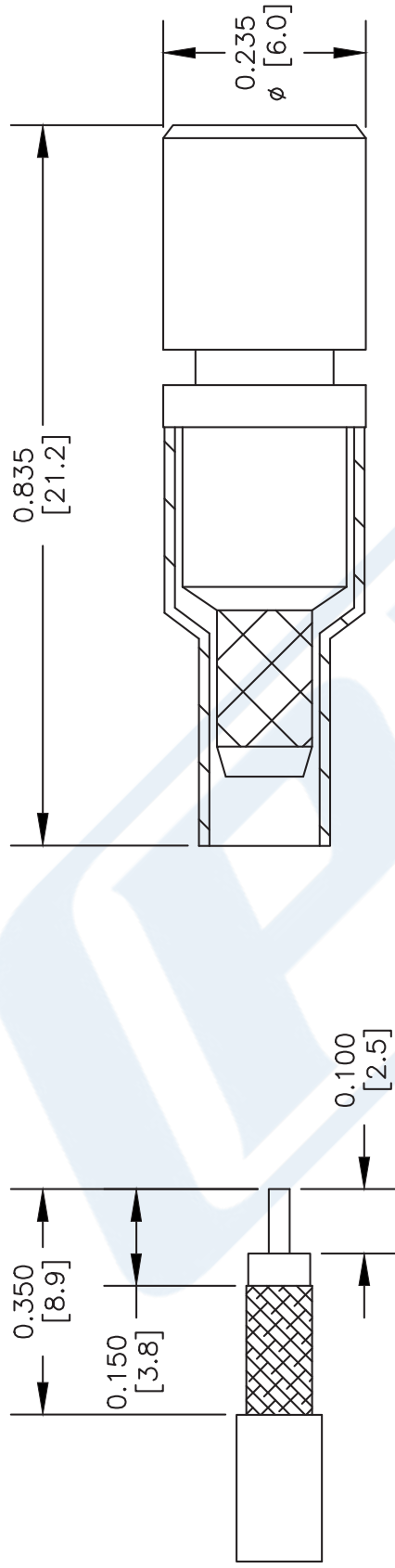
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm MCX Jack Connector Crimp/Solder Attachment for RG179, RG187 PE44300](#)

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

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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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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 |  | FSCM NO. 53919 |  | CAD FILE 010603 |  | SCALE N/A | SIZE A | 127 |
| PE44300   |  |                |  |                 |  |           |        |     |



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

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#### 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<br>at 4 and 7 MHz |         |         | 700     | Vrms  |
| Corona Discharge<br>at 70,000 feet       |         |         | 250     | Vrms  |
| Insulation Resistance                    | 1,000   |         |         | MOhms |

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

### RF Connectors Technical Data Sheet

**PE44300**

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

#### Plotted and Other Data

Notes:

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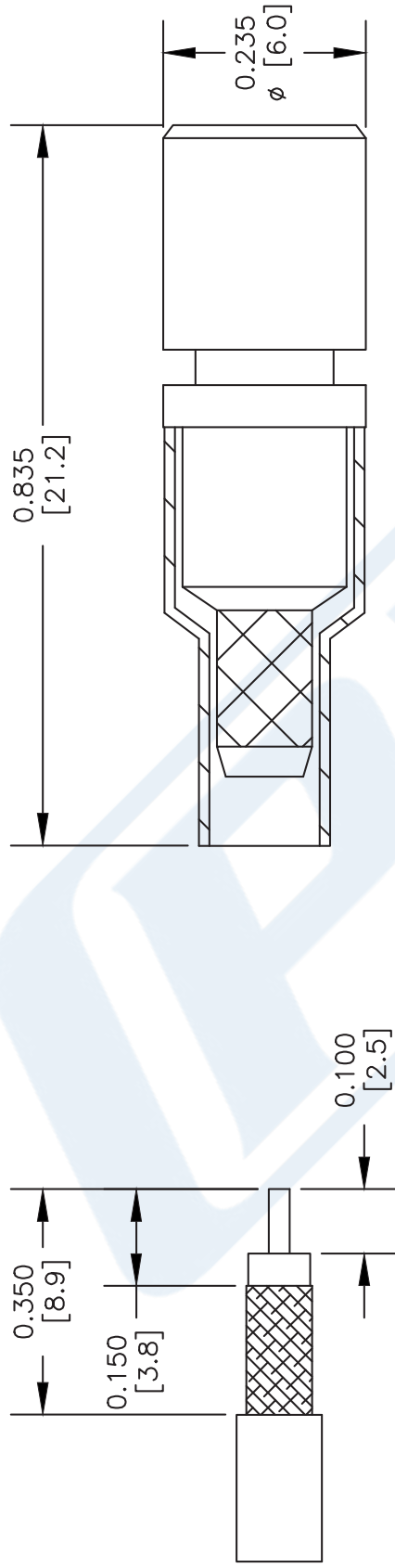
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm MCX Jack Connector Crimp/Solder Attachment for RG179, RG187 PE44300](#)

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

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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**

FSCM NO. 53919

|                                                                                                                                                                                                                                |        |       |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|-----|
| NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm].<br>4. FITS MIL-C-17 AND EQUIVALENT CABLES. |        |       |     |
| CAD FILE                                                                                                                                                                                                                       | 010603 | SCALE | N/A |
| SIZE                                                                                                                                                                                                                           | A      |       | 127 |



## 75 Ohm Flexible RG179 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG179B/U**

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 3       | GHz          |
| Impedance               |         | 75           |         | Ohms         |
| Velocity of Propagation |         | 70           |         | %            |
| Operating Voltage (AC)  |         |              | 900     | Vrms         |
| Nominal Capacitance     |         | 19.4 [63.65] |         | pF/ft [pF/m] |

#### Performance by Frequency Band

| Description      | F1    | F2    | F3    | F4 | F5 | Units    |
|------------------|-------|-------|-------|----|----|----------|
| Frequency        | 100   | 400   | 1,000 |    |    | MHz      |
| Attenuation, Typ | 9.06  | 18.4  | 30    |    |    | dB/100ft |
|                  | 29.72 | 60.37 | 98.43 |    |    | dB/100m  |

#### Mechanical Specifications

|                             |                         |
|-----------------------------|-------------------------|
| Diameter                    | 0.1 in [2.54 mm]        |
| Weight                      | 0.01 lbs/ft [0.01 Kg/m] |
| Min. Bend Radius (Repeated) | 0.4 in [10.16 mm]       |

#### Construction Specifications

| Description     | Material and Plating                 | Diameter          |
|-----------------|--------------------------------------|-------------------|
| Inner Conductor | Copper Clad Steel, Silver, 7 Strands | 0.012 in [0.3 mm] |
| Conductor Type  | Stranded                             |                   |
| Dielectric      | PTFE                                 | 0.063 in [1.6 mm] |
| First Shield    | Silver Plated Copper Braid           | 0.08 in [2.03 mm] |

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 RG179 Coax Cable Single Shielded with Tan FEP Jacket RG179B/U](#)

## 75 Ohm Flexible RG179 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG179B/U**

|        |          |                  |
|--------|----------|------------------|
| Jacket | FEP, Tan | 0.1 in [2.54 mm] |
|--------|----------|------------------|

#### Environmental Specifications

##### Temperature

Operating Range -55 to +200 deg C

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

#### Plotted and Other Data

##### Notes:

75 Ohm Flexible RG179 Coax Cable Single Shielded with Tan FEP 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.

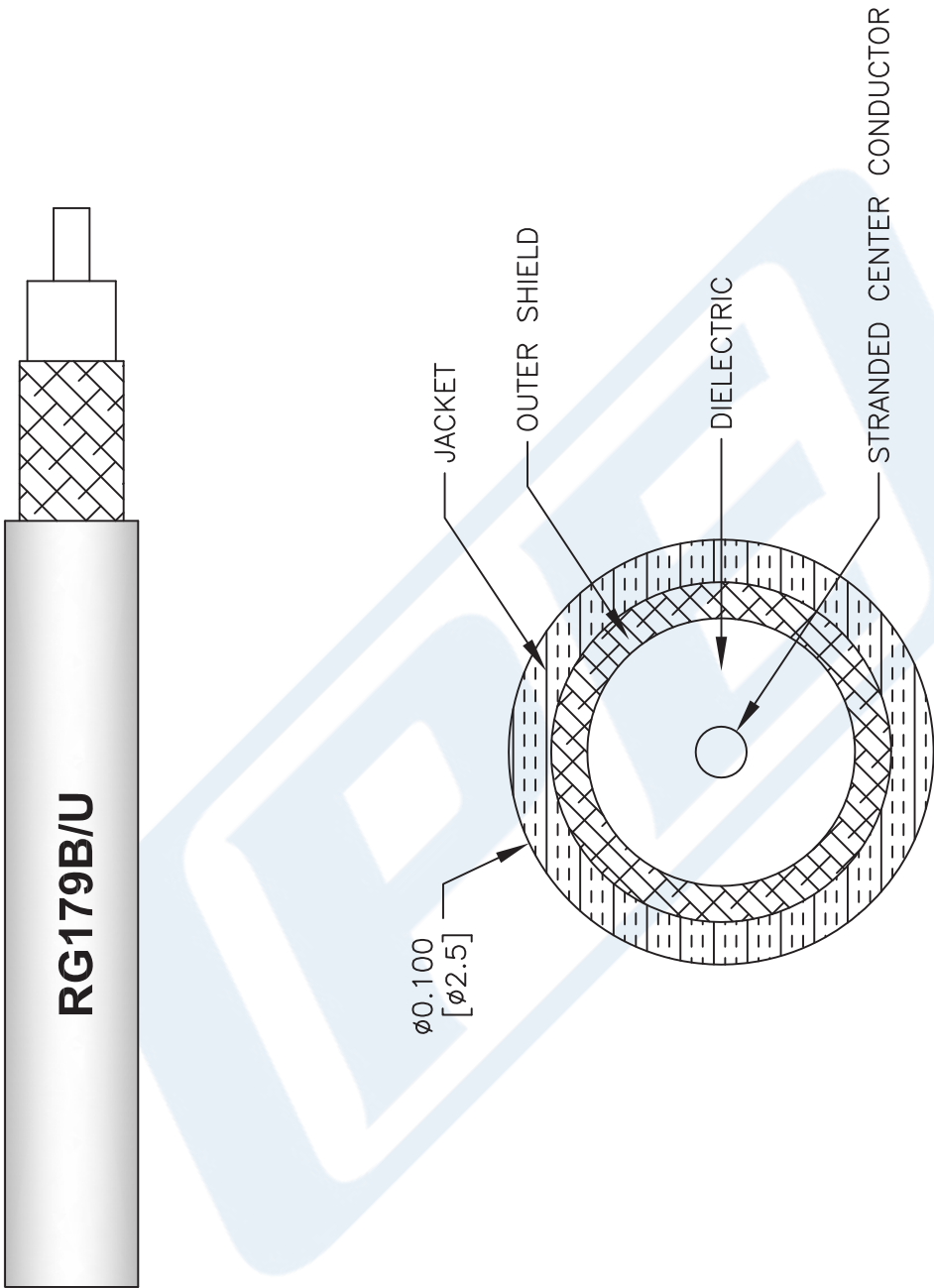
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Flexible RG179 Coax Cable Single Shielded with Tan FEP Jacket RG179B/U](#)

URL: <https://www.pasternack.com/flexible-0.100-rg179-75-ohm-coax-cable-fep-jacket-rg179b-u-p.aspx>

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RG179B/U CAD Drawing

75 Ohm Flexible RG179 Coax Cable Single Shielded with Tan FEP Jacket



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DWG TITLE  
**RG179B/U**

FSCM NO. 53919

CAD FILE 111716

SCALE N/A

SIZE A

41742

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