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

RF Connectors Technical Data Sheet

PE4249

Configuration

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

Features

• Max. Operating Frequency 1,000 MHz
• Good VSWR of 1.3:1
• Gold Plated Beryllium Copper Contact
• 30 µin minimum contact plating

Applications

• General Purpose Test
• Custom Cable Assemblies

Description

Pasternack’s PE4249 75 ohm SMC 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 SMC plug connector operates up to a maximum frequency of 1,000 MHz and offers good VSWR of 1.3:1.

Our 75 ohm SMC plug connector PE4249 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>DC</td>
<td>1,000</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>VSWR</td>
<td>1.3:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Voltage (AC)</td>
<td></td>
<td>335</td>
<td>Vrms</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>0.79 in [20.07 mm]</td>
</tr>
<tr>
<td>Width/Dia.</td>
<td>0.375 in [9.53 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>0.017 lbs [7.71 g]</td>
</tr>
<tr>
<td>Mating Torque</td>
<td>1 in-lbs [0.11 Nm]</td>
</tr>
</tbody>
</table>

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 75 Ohm SMC Plug Connector Crimp/Solder Attachment for RG179, RG187 PE4249
Material Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Beryllium Copper</td>
<td>Gold 30 µin minimum</td>
</tr>
<tr>
<td>Insulation</td>
<td>PTFE</td>
<td></td>
</tr>
<tr>
<td>Body</td>
<td>Brass</td>
<td>Nickel 100 µin minimum</td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>Brass</td>
<td>Nickel 100 µin minimum</td>
</tr>
</tbody>
</table>

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 SMC 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 SMC Plug Connector Crimp/Solder Attachment for RG179, RG187 PE4249


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

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. DIMENSIONS ARE IN MILLIMETERS.  MINIMUM TOLERANCE (+0.030) IN MILLIMETERS.
3. FITS MIL-C-17 AND EQUIVALENT CABLES.

STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER FERRULE: 128' HEX CRIMP TOOL

3/8 HEX

0.79
[20.1]

0.10
[25]

0.45
[11.4]

0.35
[8.9]

0.28
[7.0]
75 Ohm BNC Male Connector Crimp/Solder Attachment for RG179, RG187

RF Connectors Technical Data Sheet PE4604

Configuration
• BNC Male Connector
• 75 Ohms
• Straight Body Geometry

Features
• Max. Operating Frequency 1,000 MHz
• Good VSWR of 1.3:1
• Gold Plated Brass Contact
• 30 µin minimum contact plating

Applications
• General Purpose Test
• Custom Cable Assemblies
• CATV

Description
Pasternack’s PE4604 75 ohm BNC male connector with crimp/solder attachment for RG179 and RG187 is part of our full line of RF components available for same-day shipping. Our BNC male connector operates up to a maximum frequency of 1,000 MHz and offers good VSWR of 1.3:1.

Our 75 ohm BNC male connector PE4604 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

<table>
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<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>DC</td>
<td>1,000</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
<td>1.3:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Voltage (AC)</td>
<td></td>
<td>500</td>
<td>Vrms</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1.225 in [31.12 mm]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width/Dia.</td>
<td>0.571 in [14.50 mm]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>0.027 lbs [12.25 g]</td>
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<td></td>
</tr>
</tbody>
</table>

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 75 Ohm BNC Male Connector Crimp/Solder Attachment for RG179, RG187 PE4604
### Material Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Brass</td>
<td>Gold</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 µin minimum</td>
</tr>
<tr>
<td>Insulation</td>
<td>PTFE</td>
<td>Nickel</td>
</tr>
<tr>
<td>Body</td>
<td>Brass</td>
<td>Nickel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 µin minimum</td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>Brass</td>
<td>Nickel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 µin minimum</td>
</tr>
<tr>
<td>Crimp Sleeve</td>
<td>Brass</td>
<td>Nickel</td>
</tr>
</tbody>
</table>

### 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 BNC Male 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 BNC Male Connector Crimp/Solder Attachment for RG179, RG187 PE4604


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1. Strip cable as shown & slide ferrule (1) onto cable.
2. Flare end of cable braid & slide metal spacer (2) & PTFE (3) spacer over cable dielectric.
3. The contact (4) should butt against the dielectric & PTFE spacer. Crimp contact to cable center conductor.
4. Install cable assembly into body so that the inner ferrule portion of body slides under braid. Push cable assembly forward until contact snaps into place. Slide ferrule over braid and up against connector body & crimp.
# TECHNICAL DATA SHEET

## 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

<table>
<thead>
<tr>
<th>Frequency 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency, MHz</strong></td>
</tr>
<tr>
<td><strong>Attenuation, dB/100ft [dB/100m]</strong></td>
</tr>
<tr>
<td><strong>Power Handling, KWatts</strong></td>
</tr>
</tbody>
</table>

### 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]

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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 Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket RG187A/U](#)
75 Ohm Flexible RG187 Coax Cable Single Shielded with White PTFE Jacket

**TECHNICAL DATA SHEET**

<table>
<thead>
<tr>
<th><strong>Jacket:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material</strong></td>
<td>PTFE</td>
</tr>
<tr>
<td><strong>Diameter, in [mm]</strong></td>
<td>0.11 [2.79]</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>White</td>
</tr>
<tr>
<td><strong>Weight, lbs/ft [Kg/m]</strong></td>
<td>0.011 [0.02]</td>
</tr>
</tbody>
</table>

**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

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.

RG187A/U

JACKET
OUTER SHIELD
DIELECTRIC
SOLID CENTER CONDUCTOR

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RG187A/U REV