RF Connectors Technical Data Sheet  

**PE4576**

**Configuration**
- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Type: RG55, RG141, RG142, RG223, RG400
- Crimp/Solder (Captive Contact) Attachment
- 5/16 inch Hex

**Features**
- Gold Plated Contact
- Contact plating according to MIL-G-45204

**Applications**
- General Purpose Test
- Custom Cable Assemblies

**Description**
Pasternack’s PE4576 SMA male connector with crimp/solder (captive contact) attachment for RG55, RG141, RG142, RG223 and RG400 is part of our full line of RF components available for same-day shipping.

Our SMA male connector PE4576 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.

**Mechanical Specifications**

**Size**
- Length: 1.235 in [31.37 mm]
- Width/Dia.: 0.312 in [7.92 mm]
- Weight: 0.016 lbs [7.26 g]
- Mating Torque: 3 to 5 in-lbs [0.34 to 0.57 Nm]

**Material Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Plating</th>
</tr>
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<tbody>
<tr>
<td>Contact</td>
<td>Gold</td>
<td>MIL-G-45204</td>
</tr>
<tr>
<td>Insulation</td>
<td>PTFE</td>
<td></td>
</tr>
<tr>
<td>Body</td>
<td>Brass</td>
<td>Nickel QQ-N-290</td>
</tr>
<tr>
<td>Coupling Nut</td>
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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:  
SMA Male Connector Crimp/Solder (Captive Contact) Attachment for RG55, RG141, RG142, RG223, RG400 PE4576

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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Sales@Pasternack.com • Techsupport@Pasternack.com

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PE4576 REV 1.1
SMA Male Connector Crimp/Solder (Captive Contact) Attachment for RG55, RG141, RG142, RG223, RG400

RF Connectors Technical Data Sheet

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Male Connector Crimp/Solder (Captive Contact) Attachment for RG55, RG141, RG142, RG223, RG400 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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ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR. TIN CENTER CONDUCTOR.

2. SLIDE FERRULE (1) OVER CABLE. FLAIR BRAID & SLIDE WEDGE ASSEMBLY (2) UNDER BRAID WITH CENTER CONDUCTOR PROTRUDING THROUGH HOLE IN INSULATOR. SLIDE FERRULE (1) OVER BRAID & AGAINST CLAMP NUT (2). CRIMP FERRULE.

3. SOLDER CONTACT TO CENTER CONDUCTOR. CLEAN, INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.

STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED
FERRULE: .213" HEX CRIMP TOOL
SMA Male Connector Crimp/Solder (Captive Contact) Attachment for RG55, RG141, RG142, RG223, RG400

RF Connectors Technical Data Sheet

**Configuration**
- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG55, RG141, RG142, RG223, RG400 Interface Type
- Crimp/Solder (Captive Contact) Attachment
- 5/16 inch Hex

**Features**
- Gold Plated Contact
- Contact plating according to MIL-G-45204

**Applications**
- General Purpose Test
- Custom Cable Assemblies

**Description**
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SMA Male Connector Crimp/Solder (Captive Contact) Attachment for RG55, RG141, RG142, RG223, RG400

RF Connectors Technical Data Sheet

Compliance Certifications (see product page for current document)

Plotted and Other Data

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2. SLIDE FERRULE (1) OVER CABLE. FLAIR BRAID & SLIDE WEDGE ASSEMBLY (2) UNDER BRAID WITH CENTER CONDUCTOR PROTRUDING THROUGH HOLE IN INSULATOR. SLIDE FERRULE (1) OVER BRAID & AGAINST CLAMP NUT (2). CRIMP FERRULE.

3. SOLDER CONTACT TO CENTER CONDUCTOR. CLEAN, INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.

STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED
FERRULE: .213" HEX CRIMP TOOL
Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

**TECHNICAL DATA SHEET**

**Configuration**
- Inner Conductor Material and Plating: Copper, Silver
- Dielectric Type: PE
- Shield Materials: Silver Plated Copper Braid, Silver Plated Copper Braid
- Jacket Material and Color: PVC, Black

**Electrical Specifications**
- Impedance, Ohms: 50
- Velocity of Propagation, %: 66
- Maximum Operating Frequency, GHz: 12.4
- Capacitance, pF/ft [pF/m]: 30.8 [101.05]
- Maximum Operating Voltage, Volts: 1,900

**Electrical Specifications by Frequency**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Frequency, MHz</th>
<th>Attenuation, dB/100ft [dB/100m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency 1</td>
<td>100</td>
<td>4 [13.12]</td>
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<tr>
<td>Frequency 2</td>
<td>400</td>
<td>8.2 [26.9]</td>
</tr>
<tr>
<td>Frequency 3</td>
<td>1000</td>
<td>13.4 [43.96]</td>
</tr>
<tr>
<td>Frequency 4</td>
<td>3</td>
<td>24.8 [81.36]</td>
</tr>
<tr>
<td>Frequency 5</td>
<td>5</td>
<td>33.5 [109.91]</td>
</tr>
<tr>
<td>Frequency 6</td>
<td>11</td>
<td>54.1 [177.49]</td>
</tr>
</tbody>
</table>

**Mechanical Specifications**
- Temperature
  - Operating Range, deg C: -20 to +80

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket RG223/U
Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>Value</th>
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<tbody>
<tr>
<td>Inner Conductor</td>
<td></td>
</tr>
<tr>
<td>Number of Strands</td>
<td>1</td>
</tr>
<tr>
<td>Material</td>
<td>Copper</td>
</tr>
<tr>
<td>Plating</td>
<td>Silver</td>
</tr>
<tr>
<td>Diameter, in [mm]</td>
<td>0.035 [0.89]</td>
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<tr>
<td>Dielectric:</td>
<td></td>
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<tr>
<td>Type</td>
<td>PE</td>
</tr>
<tr>
<td>Diameter, in [mm]</td>
<td>0.116 [2.95]</td>
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<tr>
<td>Shield:</td>
<td></td>
</tr>
<tr>
<td>Number of</td>
<td>2</td>
</tr>
<tr>
<td>Material 1</td>
<td>Silver Plated Copper Braid</td>
</tr>
<tr>
<td>Material 2</td>
<td>Silver Plated Copper Braid</td>
</tr>
<tr>
<td>Diameter, in [mm]</td>
<td>0.156 [3.96]</td>
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<tr>
<td>Jacket:</td>
<td></td>
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<tr>
<td>Material</td>
<td>PVC</td>
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<tr>
<td>Diameter, in [mm]</td>
<td>0.21 [5.33]</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>One Time Minimum Bend Radius, in [mm]</td>
<td>0.21 [5.33]</td>
</tr>
<tr>
<td>Repeated Minimum Bend Radius, in [mm]</td>
<td>1 [25.4]</td>
</tr>
<tr>
<td>Weight, lbs/ft [Kg/m]</td>
<td>0.038 [0.06]</td>
</tr>
</tbody>
</table>

Compliance Certifications: (visit www.Pasternack.com for current document)
- RoHS Compliant
- REACH Compliant

06/18/2012

Plotted and Other Data

Notes:
- Values at +25 °C, sea level

Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket 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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