
**RF Connectors Technical Data Sheet**

**Configuration**
- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 Interface Type
- Solder Attachment
- 5/16 inch Hex

**Features**
- Max. Operating Frequency 18 GHz

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

**Description**
Pasternack’s PE44691 SMA male connector with solder attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN and RG402 is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 18 GHz.

Our SMA male connector PE44691 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></td>
<td>18</td>
<td>GHz</td>
</tr>
</tbody>
</table>

**Mechanical Specifications**

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>0.441 in [11.2 mm]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width/Dia.</td>
<td>0.315 in [8.00 mm]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>0.005 lbs [2.27 g]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mating Torque</td>
<td>8 to 10 in-lbs [0.90 to 1.13 Nm]</td>
<td></td>
<td></td>
<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: SMA Male Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE44691

RF Connectors Technical Data Sheet

Material Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Brass</td>
<td>Gold over Nickel</td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>Passivated Stainless Steel</td>
<td></td>
</tr>
</tbody>
</table>

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Male Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 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: SMA Male Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE44691


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ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN.

2. SOLDER CONNECTOR BODY.

3. TRIM DIELECTRIC, DO NOT NICK CENTER CONDUCTOR AND POINT THE CENTER CONTACT OF CABLE.

4. INSTALL THE COUPLING NUT.

FITS .141 SEMI-RIGID CABLE TYPES

1/4 ANTI-TORQUE HEX

5/16 HEX

0.44 [11.2]

0.110 [2.8]

RF Connectors Technical Data Sheet

PE44703

Configuration
• N Male Connector
• 50 Ohms
• Right Angle Body Geometry
• PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 Interface Type
• Solder/Solder Attachment

Features
• Max. Operating Frequency 11 GHz
• Gold over Nickel Plated Brass Contact

Applications
• General Purpose Test
• Custom Cable Assemblies

Description
Pasternack’s PE44703 type N male right angle connector with solder/solder attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN and RG402 is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 11 GHz. Its right angle body geometry allows for easier connections in tight spaces.

Our type N male right angle connector PE44703 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

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<tr>
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<th>Minimum</th>
<th>Typical</th>
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</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>DC</td>
<td></td>
<td>11</td>
<td>GHz</td>
</tr>
</tbody>
</table>

Mechanical Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1.136 in [28.85 mm]</td>
</tr>
<tr>
<td>Width/Dia.</td>
<td>0.79 in [20.07 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>0.074 lbs [33.57 g]</td>
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</tbody>
</table>

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: N Male Right Angle Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE44703
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 over Nickel</td>
</tr>
<tr>
<td>Insulation</td>
<td>PTFE</td>
<td></td>
</tr>
<tr>
<td>Body</td>
<td>Brass</td>
<td>Nickel</td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>Brass</td>
<td>Nickel</td>
</tr>
</tbody>
</table>

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

N Male Right Angle Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 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: N Male Right Angle Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE44703


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STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR.

2. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS OUT. THE CENTER CONDUCTOR WILL PROTRUDE INTO CONTACT SLOT.

3. SOLDER CENTER CONDUCTOR INTO SLOT AND OUTER CONDUCTOR TO BODY. INSERT INSULATOR AND PRESS CAP INTO CONNECTOR BODY.

FITS .141 SEMI-RIGID CABLE TYPES
TECHNICAL DATA SHEET

Formable 141 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket

Black FEP jacketed formable 0.141 inch diameter Semirigid Coaxial Cable

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly preformed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding. FEP Jacket reduces the chance of shorting exposed contacts or circuit conductors.

• Dimensionally the same as standard solid outer conductor semi-rigid coax
• Standard semi-rigid connectors can be used
• Cable is hand formable and does not require special tools to bend
• Connectors are easily soldered to Tin soaked outer conductor
• Cable can be formed more than once without damage to outer conductor
• High RF Shielding >100 dB

Configuration

| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                     | PTFE                       |
| Shield Materials                    | Tinned Copper Braid        |
| Jacket Material and Color           | FEP, Black                 |

Electrical Specifications

<table>
<thead>
<tr>
<th>Impedance, Ohms</th>
<th>50</th>
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</thead>
<tbody>
<tr>
<td>Velocity of Propagation, %</td>
<td>70</td>
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<tr>
<td>Time Delay, ns/ft [ns/m]</td>
<td>1.43 [4.69]</td>
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<tr>
<td>Maximum Operating Frequency, GHz</td>
<td>34</td>
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<tr>
<td>RF Shielding, dB</td>
<td>100</td>
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<tr>
<td>Capacitance, pF/ft [pF/m]</td>
<td>29 [95.14]</td>
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<tr>
<td>Maximum Operating Voltage, Volts</td>
<td>1,900</td>
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Electrical Specifications by Frequency

Frequency 1

<table>
<thead>
<tr>
<th>Frequency, MHz</th>
<th>500</th>
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<tr>
<td>Attenuation, dB/100ft [dB/100m]</td>
<td>7.92 [25.98]</td>
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<tr>
<td>Power Handling, Watts</td>
<td>436.5</td>
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Frequency 2

<table>
<thead>
<tr>
<th>Frequency, MHz</th>
<th>1000</th>
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</thead>
<tbody>
<tr>
<td>Attenuation, dB/100ft [dB/100m]</td>
<td>11.89 [39.01]</td>
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<tr>
<td>Power Handling, Watts</td>
<td>303.4</td>
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Frequency 3

<table>
<thead>
<tr>
<th>Frequency, GHz</th>
<th>5</th>
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</thead>
<tbody>
<tr>
<td>Attenuation, dB/100ft [dB/100m]</td>
<td>28 [91.86]</td>
</tr>
<tr>
<td>Power Handling, Watts</td>
<td>126.7</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: Formable 141 Semi-rigid Coax Cable with Tinned Copper Braid and Black FEP Jacket PE-SR402FLJ

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Formable 141 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket

**TECHNICAL DATA SHEET**

**Frequency 4**
Frequency, GHz: 10
Attenuation, dB/100ft [dB/100m]: 42.1 [138.12]
Power Handling, Watts: 85.5

**Frequency 5**
Frequency, GHz: 20
Attenuation, dB/100ft [dB/100m]: 64 [209.97]
Power Handling, Watts: 56.6

**Mechanical Specifications**

**Temperature**
Operating Range, deg C: -55 to +125

**Inner Conductor**
Number of Strands: 1
Material: Copper Clad Steel
Plating: Silver
Diameter, in [mm]: 0.036 [0.91]

**Dielectric:**
Type: PTFE
Diameter, in [mm]: 0.117 [2.97]

**Shield:**
Number of
Material 1: Tinned Copper Braid
Diameter, in [mm]: 0.139 [3.53]

**Jacket:**
Material: FEP
Diameter, in [mm]: 0.161 [4.09]
Color: Black
One Time Minimum Bend Radius, in [mm]: 0.315 [8]
Repeated Minimum Bend Radius, in [mm]: 1.575 [40.01]

**Compliance Certifications** (visit www.Pasternack.com for current document)
RoHS Compliant: Yes

**Plotted and Other Data**
Notes: Values at 25 °C, sea level

Formable 141 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP 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.

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