



N Male Connector Crimp/Solder Attachment  
For RG223, RG142, RG400, RG55

TECHNICAL DATA SHEET

PE44788

**Configuration**

|  |                           |
|--|---------------------------|
| Connector                                | N Male                    |
| Connector Specification                  | MIL-STD-348A              |
| Connector Interface Type                 | RG223, RG142, RG400, RG55 |
| Cable Attachment Method (Shield/Contact) | Crimp/Solder              |
| Body Style                               | Straight                  |

**Electrical Specifications**

|                                  |          |
|----------------------------------|----------|
| Frequency Range, GHz             | DC to 11 |
| Impedance, Ohms                  | 50       |
| Maximum Operating Voltage, Volts | 1,500    |

**Frequency 1**

|                |         |
|----------------|---------|
| Frequency, GHz | DC to 6 |
| VSWR           | 1.3:1   |

**Mechanical Specifications**

**Temperature**

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -65 to +165 |
|------------------------|-------------|

**Size**

|                     |              |
|---------------------|--------------|
| Length, in [mm]     | 1.37 [34.8]  |
| Width/Dia., in [mm] | 0.83 [21.08] |
| Weight, lbs [g]     | 0.06 [27.22] |

**Connector**

|                                   |                  |
|-----------------------------------|------------------|
| Type                              | N Male           |
| Contact Material and Plating      | Brass, Gold      |
| Coupling Nut Material and Plating | Brass, Tri-Metal |
| Hex Size, mm                      | 18               |
| Torque, in-lbs [Nm]               | 9 [1.02]         |
| Body Material and Plating         | Brass, Tri-Metal |
| Dielectric Type                   | Teflon           |

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                 |            |
|-----------------|------------|
| RoHS Compliant  | Yes        |
| REACH Compliant | 06/18/2012 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Solder Attachment For RG223, RG142, RG400, RG55 PE44788](#)

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.



N Male Connector Crimp/Solder Attachment  
For RG223, RG142, RG400, RG55

TECHNICAL DATA SHEET

PE44788

**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

N Male Connector Crimp/Solder Attachment For RG223, RG142, RG400, RG55 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: [N Male Connector Crimp/Solder Attachment For RG223, RG142, RG400, RG55 PE44788](#)

URL: <http://www.pasternack.com/n-male-standard-rg223-rg142-rg400-rg55-connector-pe44788-p.aspx>

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# PE44788 CAD Drawing

N Male Connector Crimp/Solder Attachment For RG223, RG142, RG400, RG55



### STRIPPING DIMENSIONS

### CRIMP SIZE REQUIRED

CONTACT: .100" HEX CRIMP TOOL  
 FERRULE: .213" HEX CRIMP TOOL

DWG TITLE

**PE44788**

FSCM NO. 53919

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.

CAD FILE 100813

SCALE N/A

SIZE A

150



**PASTERNAK®**  
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# N Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, .640 inch DD Hole



## RF Connectors Technical Data Sheet

PE4371

### Configuration

- N Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG55, RG141, RG142, RG223, RG400 Interface Type
- Crimp/Solder Attachment
- Bulkhead

### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30  $\mu$ m minimum contact plating

### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

### Description

Pasternack's PE4371 type N female bulkhead connector with crimp/solder attachment for RG55, RG141, RG142, RG223 and RG400 (.640 inch DD hole) is part of our full line of RF components available for same-day shipping. Our type N female connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. This type N bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our type N female bulkhead connector PE4371 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                   |         |         | 1.3:1   |       |
| Operating Voltage (AC) |         |         | 1,000   | Vrms  |

### Mechanical Specifications

| Size       |                     |
|------------|---------------------|
| Length     | 1.69 in [42.93 mm]  |
| Width/Dia. | 0.827 in [21.01 mm] |
| Weight     | 0.087 lbs [39.46 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, .640 inch DD Hole PE4371](#)

N Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, .640 inch DD Hole



RF Connectors Technical Data Sheet

PE4371

**Material Specifications**

| Description     | Material | Plating                   |
|-----------------|----------|---------------------------|
| Contact         | Brass    | Gold<br>30 µin minimum    |
| Insulation      | PTFE     |                           |
| Outer Conductor | Brass    | Nickel<br>100 µin minimum |
| Body            | Brass    | Nickel<br>100 µin minimum |
| Washer          | 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:

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N Female Bulkhead Mount Connector Crimp/Solder Attachment  
for RG55, RG141, RG142, RG223, RG400, .640 inch DD Hole



**Assembly Instruction**



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, .640 inch DD Hole PE4371](#)

## N Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG141, RG142, RG223, RG400, .640 inch DD Hole



### RF Connectors Technical Data Sheet

PE4371

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URL: <https://www.pasternack.com/n-female-standard-rg55-rg141-rg142-rg223-rg400-connector-pe4371-p.aspx>

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# PE4371 CAD Drawing

N Female Bulkhead Mount Connector Crimp/Solder Attachment for  
RG55, RG141, RG142, RG223, RG400, .640 inch DD Hole




**TECHNICAL DATA SHEET**
**RG142B/U**

Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket

**Configuration**

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

**Electrical Specifications**

|                                  |              |
|----------------------------------|--------------|
| Impedance, Ohms                  | 50           |
| Velocity of Propagation, %       | 69.2         |
| Maximum Operating Frequency, GHz | 8            |
| RF Shielding, dB                 | 90           |
| Capacitance, pF/ft [pF/m]        | 29.4 [96.46] |
| Maximum Operating Voltage, Volts | 1,900        |

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

|                                 |            |
|---------------------------------|------------|
| Frequency, MHz                  | 100        |
| Attenuation, dB/100ft [dB/100m] | 3.9 [12.8] |

**Frequency 2**

|                                 |            |
|---------------------------------|------------|
| Frequency, MHz                  | 1000       |
| Attenuation, dB/100ft [dB/100m] | 13 [42.65] |

**Frequency 3**

|                                 |              |
|---------------------------------|--------------|
| Frequency, GHz                  | 3            |
| Attenuation, dB/100ft [dB/100m] | 23.8 [78.08] |

**Frequency 4**

|                                 |             |
|---------------------------------|-------------|
| Frequency, GHz                  | 5           |
| Attenuation, dB/100ft [dB/100m] | 36 [118.11] |

**Mechanical Specifications**
**Temperature**

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -55 to +200 |
|------------------------|-------------|

**Inner Conductor**

|                   |                   |
|-------------------|-------------------|
| Number of Strands | 1                 |
| Material          | Copper Clad Steel |
| Plating           | Silver            |
| Diameter, in [mm] | 0.037 [0.94]      |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket RG142B/U](#)

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# TECHNICAL DATA SHEET RG142B/U

**Dielectric:**

|                   |              |
|-------------------|--------------|
| Type              | PTFE         |
| Diameter, in [mm] | 0.116 [2.95] |

**Shield:**

|                   |                            |
|-------------------|----------------------------|
| Number of         | 2                          |
| Material 1        | Silver Plated Copper Braid |
| Material 2        | Silver Plated Copper Braid |
| Diameter, in [mm] | 0.156 [3.96]               |

**Jacket:**

|                                       |               |
|---------------------------------------|---------------|
| Material                              | FEP           |
| Diameter, in [mm]                     | 0.195 [4.95]  |
| Color                                 | Tan           |
| One Time Minimum Bend Radius, in [mm] | 0.984 [24.99] |
| Repeated Minimum Bend Radius, in [mm] | 2 [50.8]      |
| Weight, lbs/ft [Kg/m]                 | 0.046 [0.07]  |

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

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

**Plotted and Other Data**

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

URL: <http://www.pasternack.com/flexible-0.195-rg142-50-ohm-coax-cable-fep-jacket-rg142b-u-p.aspx>

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# RG142B/U CAD Drawing

Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket



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DWG TITLE  
**RG142B/U**

FSCM NO. 53919

CAD FILE 022808-A

SCALE N/A

SIZE A

2233

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