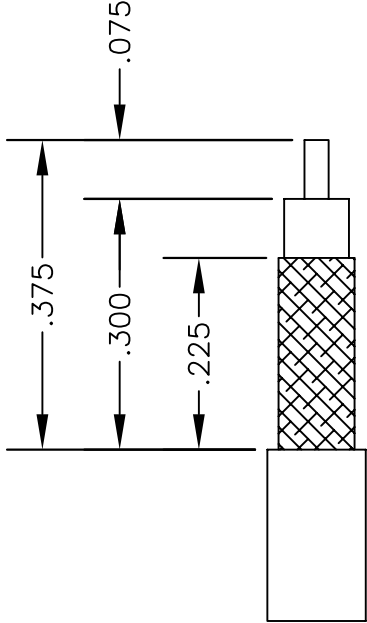
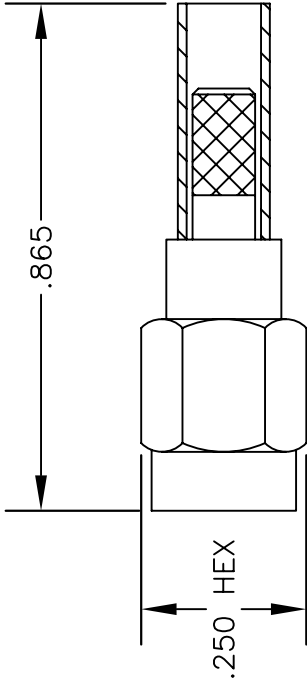


| MATERIALS |                     |
|-----------|---------------------|
| BODY      | BRASS NICKEL PLATED |
| CONTACT   | GOLD PLATED         |
| INSULATOR | PTFE                |
| FERRULE   | GOLD PLATED         |



STRIPPING DIMENSIONS

CONTACT: SOLDER  
FERRULE: SOLDER



PASTERNAK ENTERPRISES, INC.  
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COAXIAL & FIBER OPTICS

|           |                |                                                       |        |
|-----------|----------------|-------------------------------------------------------|--------|
| DWG TITLE |                | DES.                                                  |        |
| PE4184    |                | SSMA MALE, SOLDER ATTACHMENT FOR RG174, RG188 & RG316 |        |
| REV. -    | FSCM NO. 53919 | CAD FILE                                              | 042309 |
|           |                | SCALE                                                 | N/A    |
|           |                | SIZE                                                  | A      |
|           |                |                                                       | 147    |

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.

## BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for LMR-100A-PVC, LMR-100A-UF, RG174, RG316, RG188



### PE1949

#### Configuration

- BNC Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-100A-PVC, LMR-100A-UF, RG174, RG316, RG188
- Bulkhead

#### Features

- Max. Operating Frequency 4 GHz
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Phosphor Bronze Contact
- Hermetically Sealed

#### Applications

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

#### Description

Pasternack's PE1949 BNC Female Hermetically Sealed Bulkhead Mount Connector Clamp/Solder Attachment for LMR-100A-PVC, LMR-100A-UF, RG174, RG316 and RG188 Cable is part of our full line of RF components available for same-day shipping. Our BNC female connector operates up to a maximum frequency of 4 GHz and offers excellent VSWR of 1.2:1. This BNC 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 BNC female bulkhead connector PE1949 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      |         | 4       | GHz   |
| VSWR                                 |         |         | 1.2:1   |       |
| Insertion Loss                       |         |         | 0.2     | dB    |
| Operating Voltage (AC)               |         |         | 500     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,500   | Vrms  |
| Inner Conductor DC Resistance        |         |         | 1.5     | mOhms |
| Outer Conductor DC Resistance        |         |         | 1       | mOhms |
| Insulation Resistance                | 5,000   |         |         | MOhms |
| Impedance                            |         | 50      |         | Ohms  |

#### Mechanical Specifications

##### Size

|        |                    |
|--------|--------------------|
| Length | 1.19 in [30.23 mm] |
| Width  | 0.69 in [17.53 mm] |
| Height | 0.69 in [17.53 mm] |
| Weight | 0.06 lbs [27.22 g] |

## BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for LMR-100A-PVC, LMR-100A-UF, RG174, RG316, RG188



### PE1949

|                       |                                       |
|-----------------------|---------------------------------------|
| Mating Cycles         | 500 Cycles                            |
| Mating Torque         | 0.6 to 2.5 in-lbs [[0.07 to 0.28 Nm]] |
| Cable Retention Force | 6.1 lbs [2.77 kg]                     |

### Material Specifications

| Description  | Material        | Plating                      |
|--------------|-----------------|------------------------------|
| Contact      | Phosphor Bronze | Gold over Nickel over Copper |
| Insulation   | PTFE            |                              |
| Body         | Brass           | Tri-Metal over Copper        |
| Coupling Nut | Brass           | Tri-Metal over Copper        |
| Gasket       | Silicone        |                              |
| Washer       | Brass           | Tri-Metal over Copper        |

### Environmental Specifications

|                    |                                     |
|--------------------|-------------------------------------|
| <b>Temperature</b> |                                     |
| Operating Range    | -65 to +165 deg C                   |
| Humidity           | MIL-STD-202, Method106              |
| Thermal Shock      | MIL-STD-202, Method107, Condition B |
| Salt Spray         | MIL-STD-202, Method101, Condition B |
| Hermetic Seal      | 1*10-6cc/sec helium at 1atm         |

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

### Plotted and Other Data

Notes:

BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for LMR-100A-PVC, LMR-100A-UF, RG174, RG316, RG188 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: [BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for LMR-100A-PVC, LMR-100A-UF, RG174, RG316, RG188 PE1949](#)

URL: <https://www.pasternack.com/bnc-female-lmr-100a-pvc-lmr-100a-uf-rg316-rg188-connector-pe1949.html>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for LMR-100A-PVC, LMR-100A-UF, RG174, RG316, RG188



BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for LMR-100A-PVC, LMR-100A-UF, RG174, RG316, RG188



## Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket



### RG188A/U

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Features

- High temperature 50 Ohm data signal transmission
- Teflon taped outer jacket results in a 200 degree C operating temperature
- Stranded center conductor allows cable to be very flexible
- Small diameter is ideal for tight fit applications
- Associated connectors and crimp tools available

#### Applications

- Ethernet
- Data
- Premise Wiring
- R&D

#### Description

RG188 coax cable from Pasternack is only one of a large number of radio frequency twinaxial and coaxial cable types specifically stocked to be ready for quick shipment. Pasternack's RG188A/U coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This flexible 50 Ohm coax cable RG188 is constructed with a 0.11 inch diameter and PTFE jacket.

RG188 RG188A/U flexible 50 Ohm coax cable with PTFE jacket is rated for a 3 GHz maximum operating frequency. This 50 Ohm 0.11 inch diameter and flexible coax cable is built with a shield count of 1.

Pasternack's RG188 coax is constructed with PTFE dielectric and a maximum operating temperature of 250 degrees C. RG188 coax cable specs for this wire properties can be found on its RF coax cable RG-188 datasheet PDF specifications above.

RG188 cable is part of more than one million RF, microwave and millimeter wave parts in stock at Pasternack. This RG-188 coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency twinaxial and coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave and millimeter wave components.

#### Electrical Specifications

| Description                          | Minimum | Typical     | Maximum      | Units        |
|--------------------------------------|---------|-------------|--------------|--------------|
| Frequency Range                      | DC      |             | 3            | GHz          |
| Impedance                            |         | 50          |              | Ohms         |
| Velocity of Propagation              |         | 70          |              | % of c       |
| Time Delay                           |         | 1.45 [4.76] |              | ns/ft [ns/m] |
| Dielectric Withstanding Voltage (AC) |         |             | 2,000        | Vrms         |
| Inner Conductor DC Resistance        |         |             | 84.1         | Ohms/1000ft  |
| Nominal Capacitance                  |         |             | 29.3 [96.13] | pF/ft [pF/m] |
| Power@ 1GHz                          |         |             | 160          | Watts        |

#### Performance by Frequency Band

| Description | F1  | F2 | F3 | F4 | F5 | Units |
|-------------|-----|----|----|----|----|-------|
| Frequency   | 400 |    |    |    |    | MHz   |

## Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket



### RG188A/U

#### Performance by Frequency Band

| Description      | F1    | F2 | F3 | F4 | F5 | Units    |
|------------------|-------|----|----|----|----|----------|
| Attenuation, Typ | 20    |    |    |    |    | dB/100ft |
|                  | 65.62 |    |    |    |    | dB/100m  |

Electrical Specification Notes:

Static Bending Radius: One Time: 0.52 inch, repeated: 1.03

#### Mechanical Specifications

|          |                         |
|----------|-------------------------|
| Diameter | 0.11 in [2.79 mm]       |
| Weight   | 0.01 lbs/ft [0.01 kg/m] |

#### Construction Specifications

| Description     | Material and Plating                 | Diameter           |
|-----------------|--------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 7 Strands | 0.02 in [0.51 mm]  |
| Conductor Type  | Stranded                             |                    |
| Dielectric      | PTFE                                 | 0.06 in [1.52 mm]  |
| First Shield    | Silver Plated Copper Braid           | 0.081 in [2.06 mm] |
|                 | 95.2% coverage                       |                    |
| Jacket          | PTFE, White                          | 0.11 in [2.79 mm]  |

#### Environmental Specifications

|                 |                  |
|-----------------|------------------|
| Temperature     |                  |
| Operating Range | -55 to 200 deg C |

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

#### Plotted and Other Data

Notes:

## Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket



### RG188A/U

Flexible RG188 Coax Cable Single Shielded with White PTFE 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.

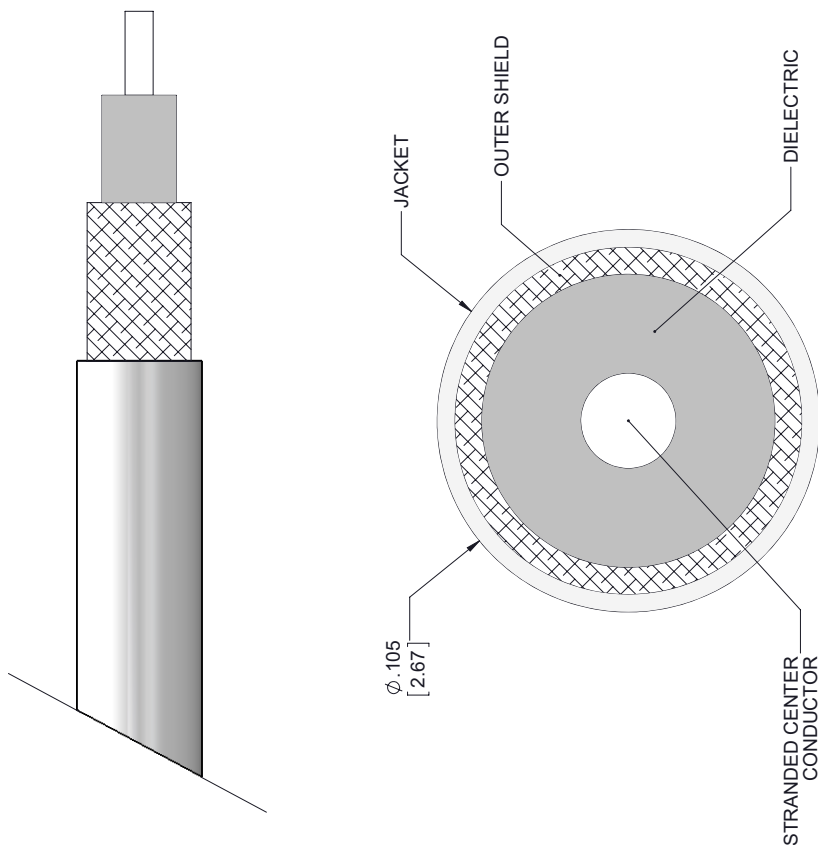
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket RG188A/U](#)

URL: <https://www.pasternack.com/50-ohm-flexible-rg188au-ptfe-jacket-silver-plated-copper-braid-outer-conductor-single-shielded-white-rg188a-u-p.aspx>

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# Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket

# Flexible RG188 Coax Cable Single Shielded with White PTFE Jacket



| STANDARD TOLERANCES |             |
|---------------------|-------------|
| .X                  | $\pm 0.2$   |
| .XX                 | $\pm 0.01$  |
| .XXX                | $\pm 0.005$ |

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



**PASTERNAK®**  
THE ENGINEER'S RF SOURCE

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**Website:** [www.pasternack.com](http://www.pasternack.com) | **E-Mail:** [sales@pasternack.com](mailto:sales@pasternack.com)

**DWG TITLE**

RG188A/U

CAGE CODE 53919

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2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME  
3. DIMENSIONS ARE IN INCHES [mm].

CAD FILE 091817

SCALE N/A

**SIZE A**

7361