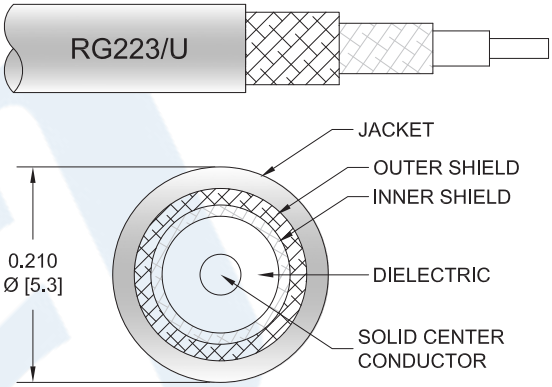
PASTERNACK
an INFINITE brand

# N Male to SHV Jack Bulkhead Cable Using RG223 Coax

## RF Cable Assemblies Technical Data Sheet PE3W08271

### Configuration

- Connector 1: N Male
- Connector 2: SHV Jack Bulkhead
- Cable Type: RG223




### Features

- 66% Phase Velocity
- Double Shielded
- PVC Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W08271 type N male to SHV jack bulkhead cable using RG223 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to SHV cable assembly has a male to jack gender configuration with 50 ohm flexible RG223 coax. Our RF cable assembly with SHV bulkhead interface 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. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Velocity of Propagation | | 66 | | % |
| Capacitance | | 30.8 [101.05] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 1,500 | Vrms |

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Weight | 0.168 lbs [76.2 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to SHV Jack Bulkhead Cable Using RG223 Coax PE3W08271

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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**Cable**

| | |
|---|---|
| Cable Type | RG223 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | PVC, Black |
| Jacket Diameter | 0.209 in [5.31 mm] |
| Repeated Minimum Bend Radius | 1 in [25.4 mm] |

**Connectors**

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | N Male | SHV Jack Bulkhead |
| Specification | MIL-STD-348A | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Silver |
| Contact Plating Specification | 30 µin | ASTM-B700 |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Nickel |
| Body Plating Specification | | ASTM-B689 |
| Coupling Nut Material and Plating | Brass, Tri-Metal | |
| Hex Size | 18 mm | |
| Torque | 9 in-lbs [1.02 Nm] | |

### Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -40 to +80 deg C |

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

### Plotted and Other Data

Notes:

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## RF Cable Assemblies Technical Data Sheet PE3W08271

### How to Order

Part Number Configuration: **PE3W08271 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W08271 — Base Number

Example: PE3W08271-12 = 12 inches long cable
PE3W08271-100cm = 100 cm long cable

N Male to SHV Jack Bulkhead Cable Using RG223 Coax 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: N Male to SHV Jack Bulkhead Cable Using RG223 Coax PE3W08271

URL: https://www.pasternack.com/n-male-to-shv-jack-bulkhead-cable-using-rg223-pe3w08271-p.aspx

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.

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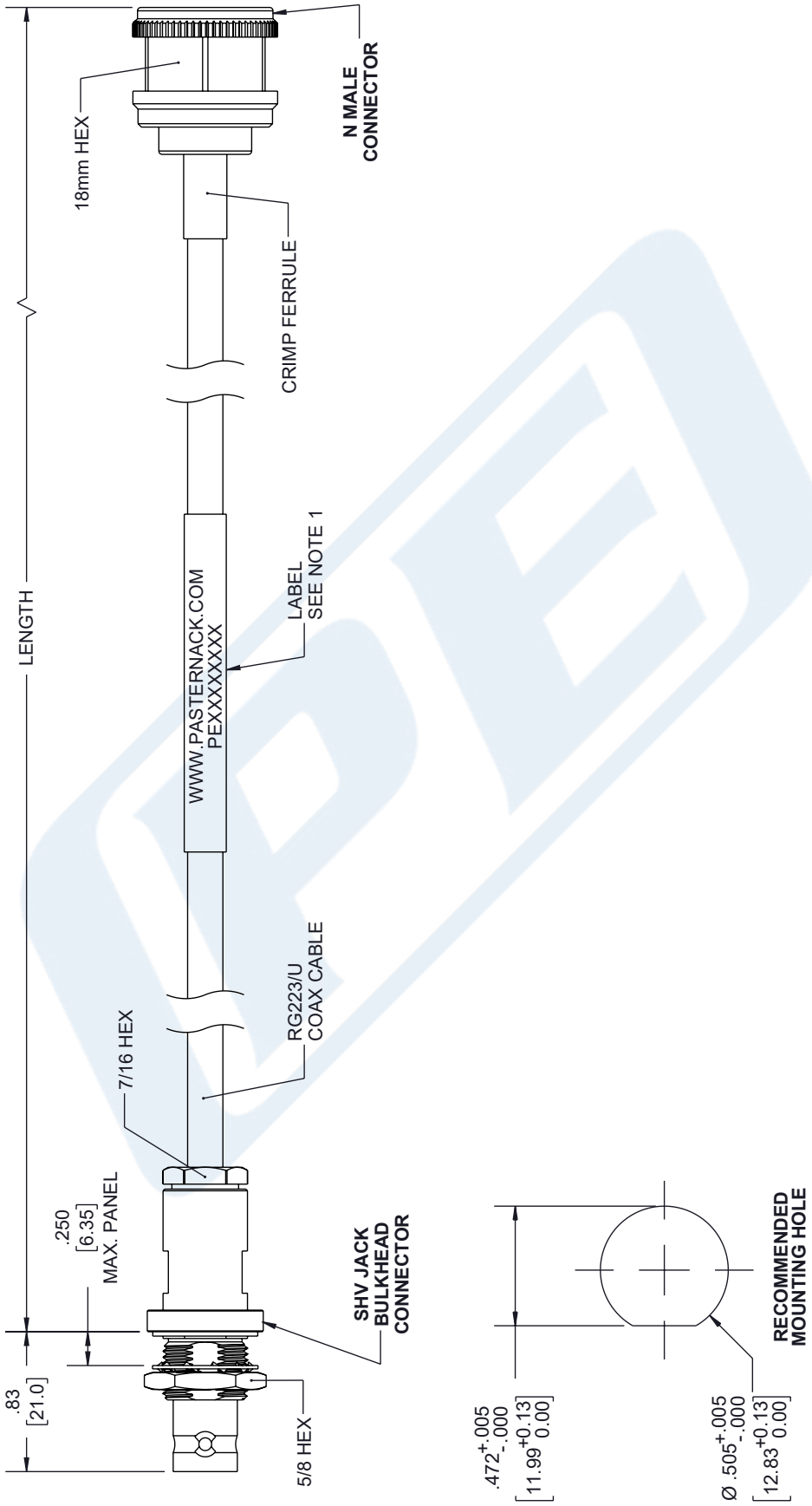
# PE3W08271 CAD Drawing

N Male to SHV Jack Bulkhead Cable Using RG223 Coax




| ZONE | REV. | DESCRIPTION | DATE | CHANGED BY | APPROVED BY |
|---|---|---|---|---|---|
| | A | INITIAL RELEASE | 01/27/2023 | KDANG | AGANWANI |

REVISION

NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [ 5 ] | FRACTIONS ± 1/32
.XX = ± .02 [ .5 ] | ANGLES ± 1°
.XXX = ± .005 [ .13 ]

CABLE LENGTH TOLERANCES:

>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE | SHEET: 1 OF 1

DESCRIPTION: N Male to SHV Jack Bulkhead Cable Using RG223 Coax

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | KDANG | PE3W08271 | A |

T-Rev.D

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