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# 12G SDI 75 Ohm HD-BNC Male Connector Crimp/Solder Attachment for Belden 4694R, Belden 1694A, RG6

## RF Connectors
## Technical Data Sheet

**PE40002**

### Configuration

- HD-BNC Male Connector
- 75 Ohms
- Straight Body Geometry
- Connector Interface Types: Belden 4694R, Belden 1694A, RG6

### Features

- Max. Operating Frequency 12 GHz
- Gold Plated Brass Contact
- 10 µin minimum contact plating
- Meets SMPTE ST 2082-1
- Backwards Compatible with 2081-1
- 12Gb/s Transmission
- Cost Effective
- 4x Panel Density of Standard BNC
- 20% Lighter than Standard BNC

### Applications

- General Purpose Test
- Custom Cable Assemblies
- 12G-SDI, Video, and Broadband UHDTV
- Broadband Internet Delivery
- Broadcast A/V
- 4K/8K Video Equipment
- Medical Equipment Requiring High Speed Video
- HD Cameras

### Description

Pasternack's PE40002 75 ohm HD-BNC male connector with crimp/solder attachment for Belden 4694R, Belden 1694A and RG6 is part of our full line of RF components available for same-day shipping. Our HD-BNC male connector operates up to a maximum frequency of 12 GHz. Pasternack's 12G-SDI HD-BNC connector PE40002 utilizes 12Gb/s data transfer rates to enable high resolution uncompressed video signal transmission. These products offer 4K and Ultra-HD quality signals that meet SMPTE ST 2082-1. These 75 Ohm connectors are available in PCB edge-mount, straight, or right angle configurations, as well as coaxial connectors to be used in industry standard cable assemblies.

Our 75 ohm HD-BNC male connector PE40002 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 | | 12 | GHz |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 1 in [25.4 mm] |
| Width/Dia. | 0.305 in [7.75 mm] |
| Height | 0.305 in [7.75 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 12G SDI 75 Ohm HD-BNC Male Connector Crimp/Solder Attachment for Belden 4694R, Belden 1694A, RG6 PE40002

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## RF Connectors
## Technical Data Sheet

**PE40002**

| | |
|---|---|
| Weight | 0.05 lbs [22.68 g] |

**Material Specifications**

| Description | Material | Plating |
|---|---|---|
| Contact | Brass | Gold<br>10 µin minimum |
| Insulation | PTFE | |
| Outer Conductor | Brass | Nickel<br>50 µin minimum |
| Body | Brass | Nickel<br>100 µin minimum |
| Gasket | Silicone | |
| Crimp Sleeve | Brass | Nickel |

### Environmental Specifications

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

### Plotted and Other Data

Notes:

12G SDI 75 Ohm HD-BNC Male Connector Crimp/Solder Attachment for Belden 4694R, Belden 1694A, RG6 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.

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URL: https://www.pasternack.com/hd-bnc-male-belden-4694r-belden-1694a-rg6-connector-pe40002-p.aspx

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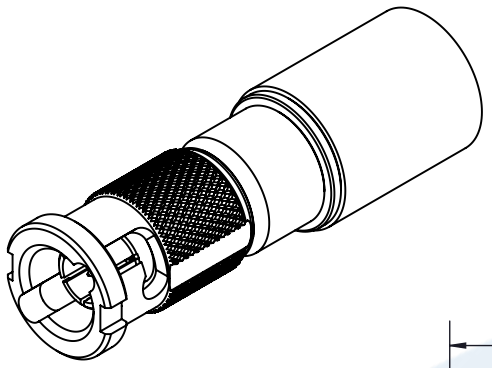
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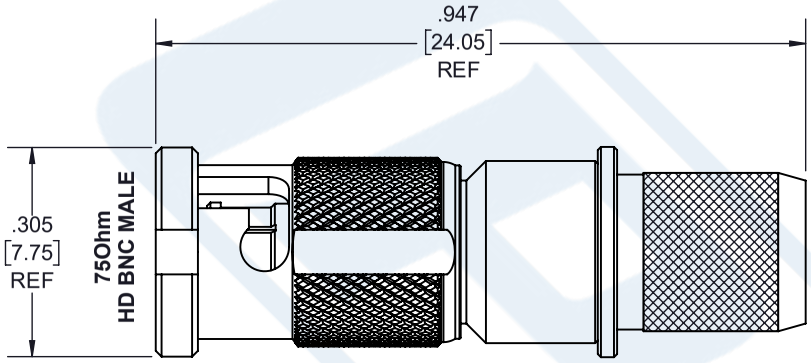
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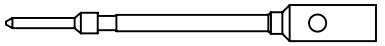
# PE40002 CAD Drawing

12G SDI 75 Ohm HD-BNC Male Connector Crimp/Solder Attachment for Belden 4694R, Belden 1694A, RG6

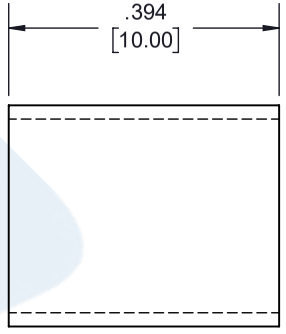
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| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 11/19/2021 | A. GANWANI |



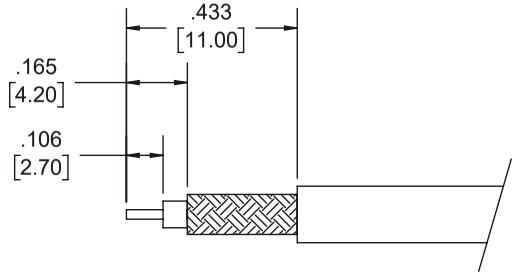


CONTACT




FERRULE




STRIPPING DIMENSIONS

NOTES:

1. CABLE ATTACHMENT:
   - OUTER: CRIMP.
   - INNER: SOLDER/CRIMP.
2. CRIMP SIZE REQUIRED:
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DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [5.08] | FRACTIONS ± 1/32
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L ≤ 12 [305] = +1 [25] / -0
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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | K.DANG | PE40002 | A |

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**PE40002**

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## RF Connectors
## Technical Data Sheet

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### Environmental Specifications

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

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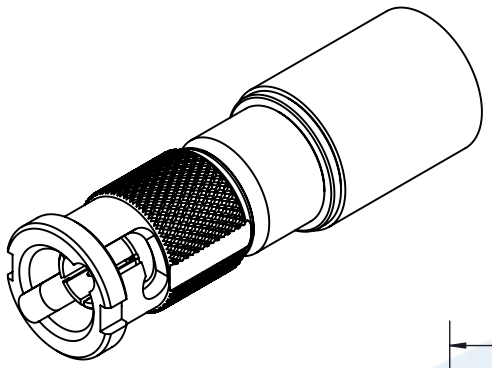
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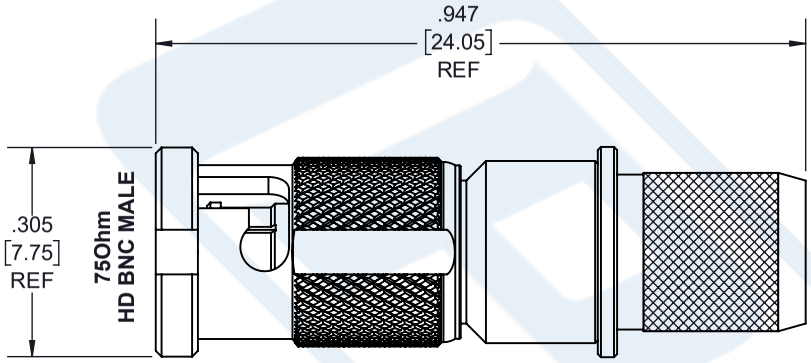
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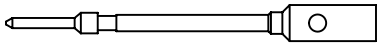
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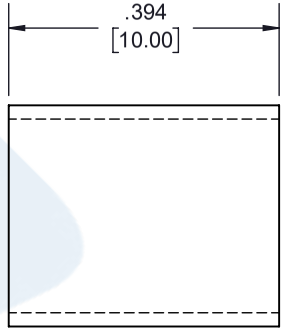
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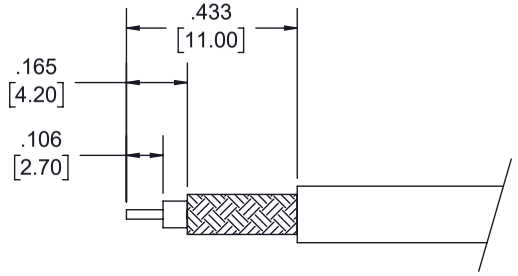


CONTACT




FERRULE




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NOTES:

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SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | K.DANG | PE40002 | A |

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THE ENGINEER'S RF SOURCE




# 75 Ohm Flexible RG6 Coax Cable Double Shielded with Black PVC (NC) Jacket

## RF Cables Technical Data Sheet RG6A/U

## Configuration

- Flexible Cable
- 2 Shield(s)

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 1,000 | MHz |
| Impedance | | 75 | | Ohms |
| Velocity of Propagation | | 66 | | % |
| Shielding Effectiveness | 90 | | | dB |
| Operating Voltage (DC) | | | 2,700 | Vdc |
| Nominal Capacitance | | 20.6 [67.59] | | pF/ft [pF/m] |

### Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 10 | 100 | 1,000 | | | MHz |
| Attenuation, Typ | 0.08 | 2.9 | 11 | | | dB/100ft |
| | 0.26 | 9.51 | 36.09 | | | dB/100m |

### Mechanical Specifications

| | |
|---|---|
| Diameter | 0.332 in [8.43 mm] |
| Weight | 0.085 lbs/ft [0.13 Kg/m] |
| Min. Bend Radius (Repeated) | 3.5 in [88.9 mm] |

### Construction Specifications

| Description | Material and Plating | Diameter |
|---|---|---|
| Inner Conductor | Copper Clad Steel, 1 Strands | 0.029 in [0.74 mm] |
| Conductor Type | Solid | |
| Dielectric | PE | 0.185 in [4.7 mm] |
| First Shield | Silver Plated Copper Braid | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 75 Ohm Flexible RG6 Coax Cable Double Shielded with Black PVC (NC) Jacket RG6A/U

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# 75 Ohm Flexible RG6 Coax Cable Double Shielded with Black PVC (NC) Jacket



| | | |
|---|---|---|
| Second Shield | Copper Braid | 0.248 in [6.3 mm] |
| Jacket | PVC (NC), Black | 0.332 in [8.43 mm] |

## Environmental Specifications

**Temperature**

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

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

## Plotted and Other Data

Notes:

75 Ohm Flexible RG6 Coax Cable Double Shielded with Black PVC (NC) 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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URL: https://www.pasternack.com/flexible-0.332-rg6-75-ohm-coax-cable-pvc-jacket-rg6a-u-p.aspx

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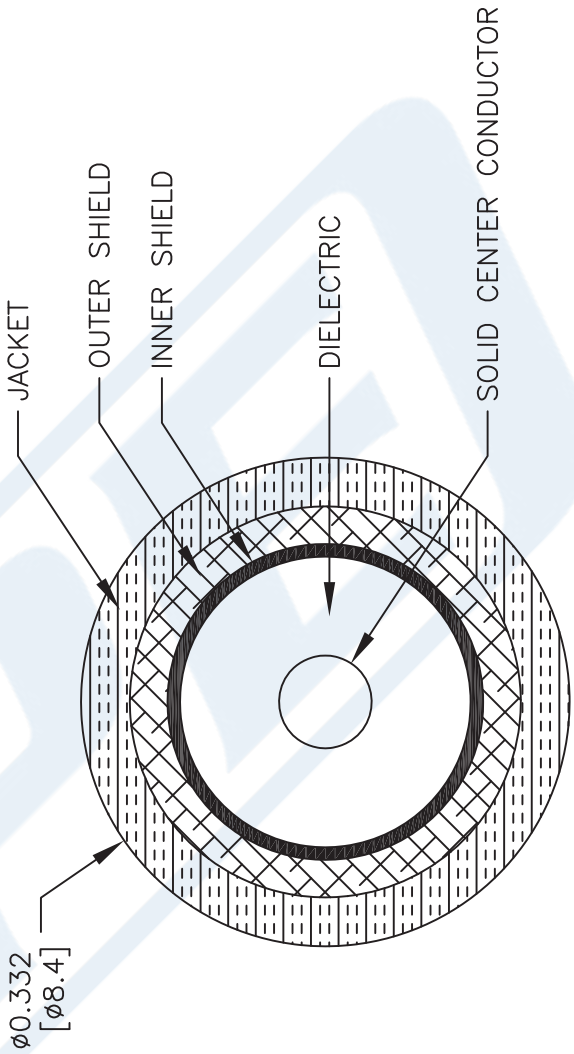
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# RG6A/U CAD Drawing

75 Ohm Flexible RG6 Coax Cable Double Shielded with Black PVC (NC) Jacket




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].

| CAD FILE | SCALE | SIZE |
|---|---|---|
| 111816 | N/A | A |

DWG TITLE: RG6A/U

FSCM NO. 53919

41742

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