



12G SDI 75 Ohm 1.0/2.3 Male Connector Crimp/Solder Attachment for Belden 4694R, Belden 1694A, RG6

RF Connectors Technical Data Sheet

PE40003

Configuration

- 1.0/2.3 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 pin contact plating
- Meets SMPTE ST 2082-1

- Backwards Compatible with 2081-1
- 12Gb/s Transmission
- Cost Effective
- Designed for High Density Applications

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 PE40003 75 ohm 1.0/2.3 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 1.0/2.3 male connector operates up to a maximum frequency of 12 GHz. Pasternack's 12G-SDI 1.0/2.3 connector PE40003 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 1.0/2.3 male connector PE40003 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	1.1 in [27.94 mm]
Width/Dia.	0.325 in [8.26 mm]
Height	0.325 in [8.26 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 1.0/2.3 Male Connector Crimp/Solder Attachment for Belden 4694R, Belden 1694A, RG6 PE40003](#)



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RF Connectors
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Weight 0.05 lbs [22.68 g]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 10 µin
Insulation	PTFE	
Outer Conductor	Brass	Gold 3 µin
Body	Brass	Nickel 100 µin minimum
Crimp Sleeve	Brass	Nickel

Environmental Specifications

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

Plotted and Other Data

Notes:

12G SDI 75 Ohm 1.0/2.3 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.

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 1.0/2.3 Male Connector Crimp/Solder Attachment for Belden 4694R, Belden 1694A, RG6 PE40003](#)

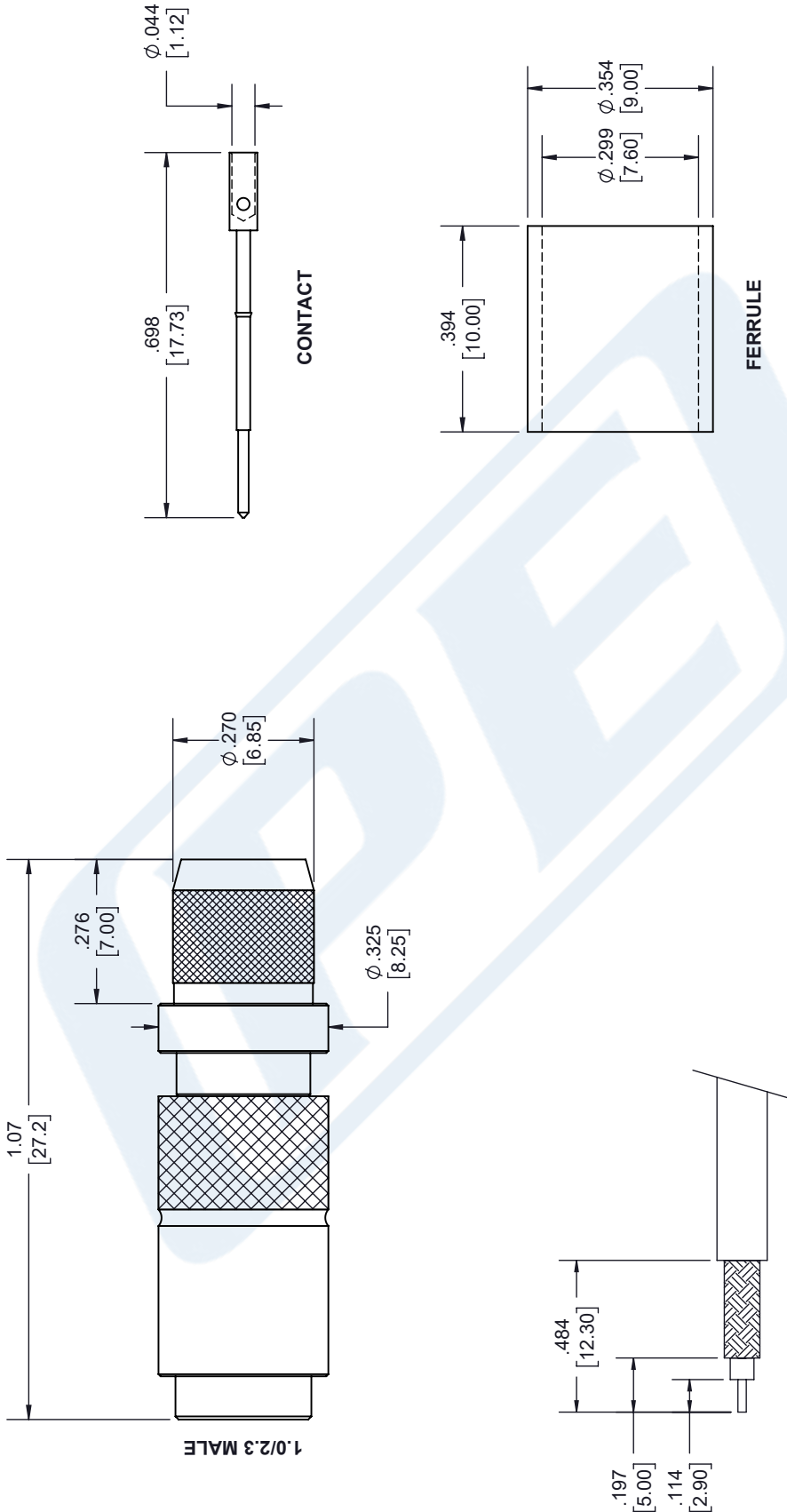
URL: <https://www.pasternack.com/1.0-2.3-male-belden-4694r-belden-1694a-rg6-connector-pe40003-p.aspx>

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.

PE40003 CAD Drawing

12G SDI 75 Ohm 1.0/2.3 Male Connector Crimp/Solder
Attachment for Belden 4694R, Belden 1694A, RG6

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/23/2021	A. GANWANI



STRIPPING DIMENSIONS

NOTES:

- CABLE ATTACHMENT:
 - OUTER: CRIMP.
 - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
 - FERRULE: .324 [8.23] HEX DIE.

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

TOLERANCES:

X = ± .2 [5.08] FRACTIONS

.XX = ± .02 [.51] ± 1/32

.XXX = ± .005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0

12 [305] < L ≤ 60 [1524] = +2 [51] / -0

60 [1524] < L ≤ 120 [3048] = +4 [102] / -0

120 [3048] < L ≤ 300 [7620] = +6 [152] / -0

300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.



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DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

SCALE N/A

REV A



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ITEM NO. PE40003

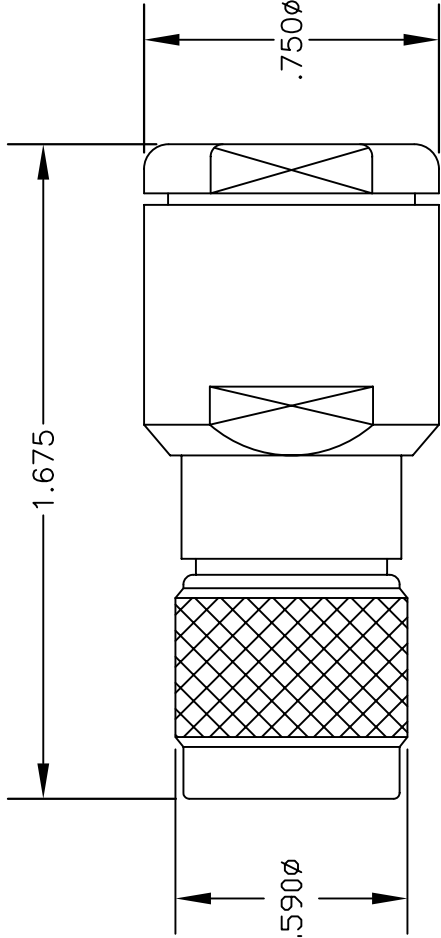
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SIZE A

CAGE CODE 53919

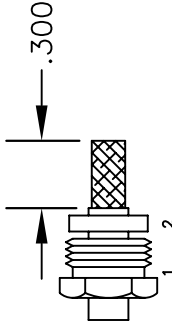
REV A

MATERIALS	
BODY	BRASS NICKEL PLATED
CONTACT	SILVER PLATED
INSULATOR	PTFE

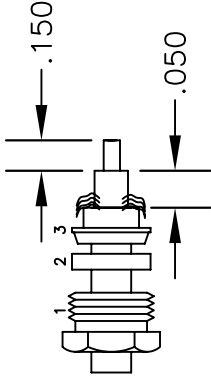


ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1) & GASKET (2) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF BRAID CLAMP (3) SLIDE BRAID CLAMP(3) OVER BRAID & SEAT AGAINST CABLE.



2. FORM BRAID OVER CLAMP NUT (3). TRIM BRAID BACK TO SHOULDER. CUT DIELECTRIC TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR. SOLDER CONTACT TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.



DWG TITLE		DES. "75 OHM TNC" MALE, CLAMP ATTACHMENT FOR RG6	
PE44161			
SIZE A	FSCM NO. 53919	CAD FILE	062702
		SCALE	N/A
			127

NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.

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](#)

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

RF Cables Technical Data Sheet

RG6A/U

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.

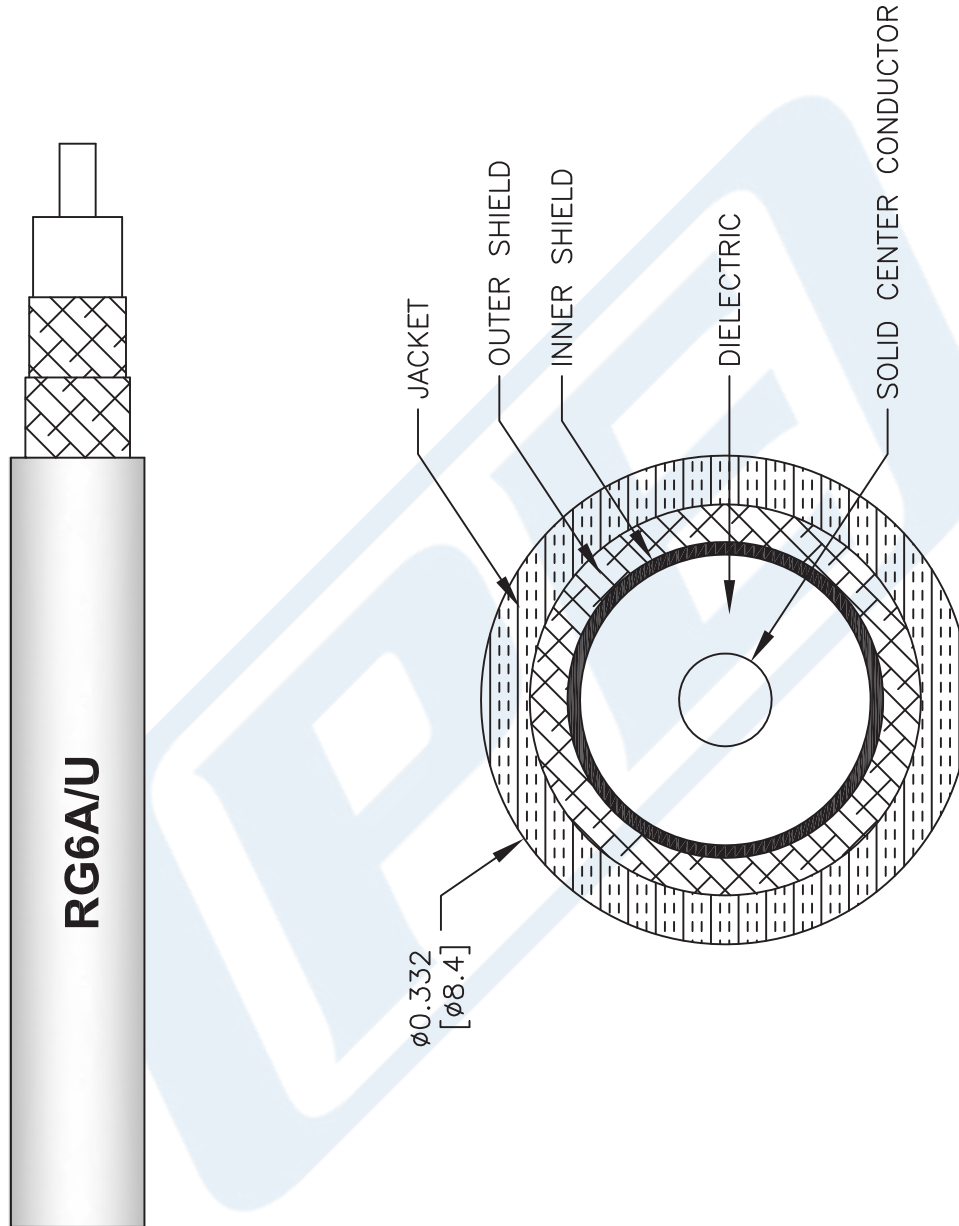
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Flexible RG6 Coax Cable Double Shielded with Black PVC \(NC\) Jacket RG6A/U](#)

URL: <https://www.pasternack.com/flexible-0.332-rg6-75-ohm-coax-cable-pvc-jacket-rg6a-u-p.aspx>

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RG6A/U CAD Drawing

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



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

DWG TITLE

RG6A/U

FSCM NO. 53919

CAD FILE 111816

SCALE N/A

SIZE A

41742

PE PASTERNAK®
 THE ENGINEER'S RF SOURCE

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