



## BNC Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400

### RF Connectors Technical Data Sheet

**PE4044**

#### Configuration

- BNC Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG55, RG142, RG223, RG400

#### Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4044 BNC male connector with crimp/solder attachment for RG55, RG142, RG223 and RG400 is part of our full line of RF components available for same-day shipping. Our BNC male connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our BNC male connector PE4044 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			1.3:1	
Operating Voltage (AC)			500	Vrms

#### Mechanical Specifications

##### Size

Length	1.13 in [28.7 mm]
Width/Dia.	0.571 in [14.50 mm]
Weight	0.027 lbs [12.25 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 PE4044](#)



BNC Male Connector Crimp/Solder Attachment  
for RG55, RG142, RG223, RG400

**RF Connectors**  
**Technical Data Sheet**

**PE4044**

**Material Specifications**

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin minimum
Crimp Sleeve	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:

BNC Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 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 Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 PE4044](#)

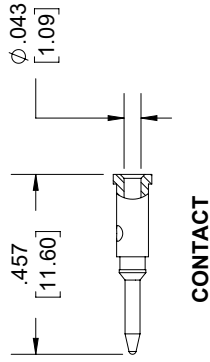
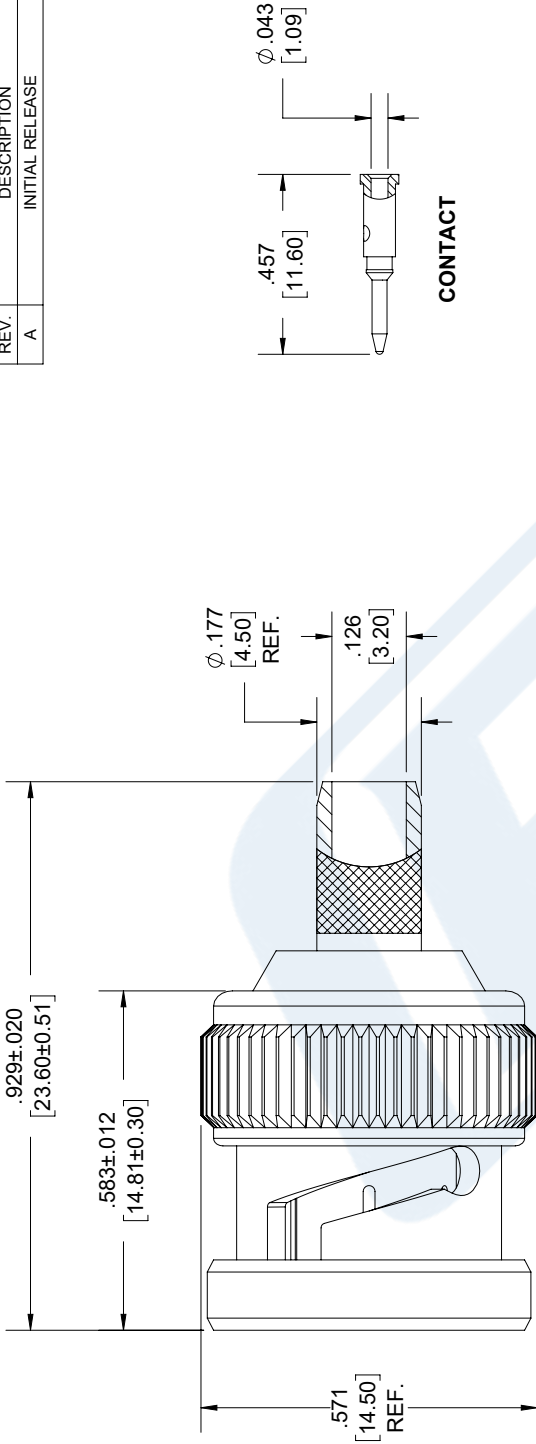
URL: <https://www.pasternack.com/bnc-male-standard-rg55-rg142-rg223-rg400-connector-pe4044-p.aspx>

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.

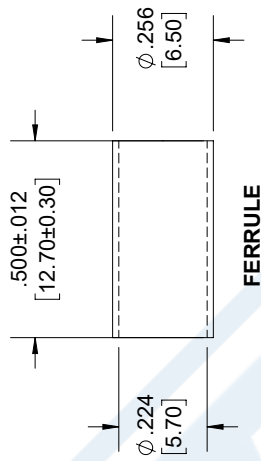
# PE4044 CAD Drawing

BNC Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400

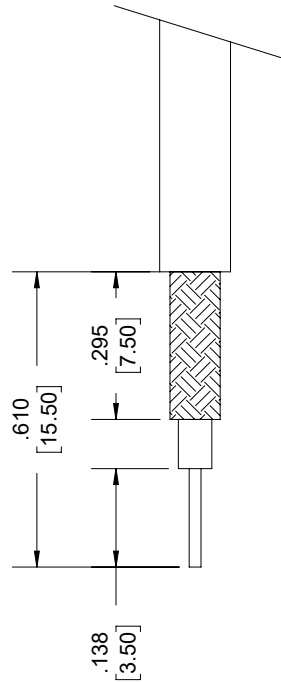
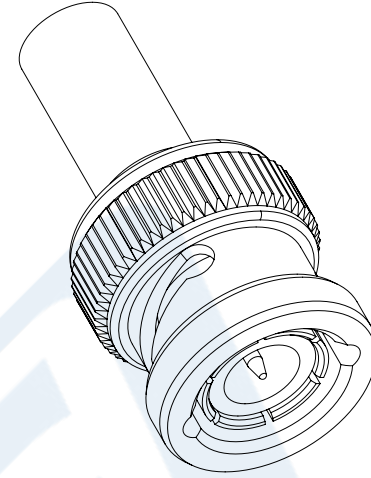
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/06/19	SELLIS



**CONTACT**



**FERRULE**



### STRIPPING DIMENSIONS

**NOTES:**

- CABLE ATTACHMENT:
  - OUTER: CRIMP.
  - INNER: SOLDER/CRIMP.
- CRIMP SIZE REQUIRED:
  - FERRULE: .213 [5.41] HEX. CRIMP TOOL.
  - CONTACT: .068 [1.73] HEX. CRIMP TOOL.

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

TOLERANCES:  
X±.2 [5.08] FRACTIONS  
XX±.01 [0.25] ±132  
XXX±.005 [0.13] ANGLES ± 1°

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1  
SCALE N/A

SIZE	CAGE	DRAWN BY	PART NUMBER	REV
A	53919	KDANG	PE4044	A

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## BMA Plug Bulkhead Mount Slide-On Connector Crimp/ Solder Attachment for RG142, RG223, RG400, RG55

### RF Connectors Technical Data Sheet

PE45318

#### Configuration

- Slide-On BMA Plug Connector
- 50 Ohms
- Straight Body Geometry
- RG142, RG223, RG400, RG55 Interface Type
- Crimp/Solder Attachment
- Bulkhead
- 8 mm Hex

#### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.28:1
- Gold Plated Bronze Contact
- 51.18µ in. minimum contact plating
- Blind Mate Connector
- Low-Engagement Force

#### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- Blind Mating
- Rack and Panel
- Phased Array Systems
- Base Stations
- RF Backplanes
- Test I/O

#### Description

Pasternack's PE45318 BMA plug slide-on bulkhead connector with crimp/solder attachment for RG142, RG223, RG400 and RG55 is part of our full line of RF components available for same-day shipping. Our BMA plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.28:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. This BMA 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 BMA plug bulkhead connector PE45318 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		12.4	GHz
VSWR			1.28:1	
Insertion Loss			0.1	dB
Operating Voltage (AC)			350	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Plug Bulkhead Mount Slide-On Connector Crimp/Solder Attachment for RG142, RG223, RG400, RG55 PE45318](#)



**BMA Plug Bulkhead Mount Slide-On Connector Crimp/  
Solder Attachment for RG142, RG223, RG400, RG55**

**RF Connectors Technical Data Sheet**

**PE45318**

**Mechanical Specifications**

<b>Size</b>	
Length	0.95 in [24.13 mm]
Width/Dia.	0.315 in [8.00 mm]
Weight	0.011 lbs [4.99 g]
Mating Cycles	500 Cycles

**Material Specifications**

Description	Material	Plating
Contact	Bronze	Gold 51.18µ in. minimum
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal
Body	Brass	Tri-Metal
Washer	Brass	Tri-Metal

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-65 to +125 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Plug Bulkhead Mount Slide-On Connector Crimp/Solder Attachment for RG142, RG223, RG400, RG55 PE45318](#)



## BMA Plug Bulkhead Mount Slide-On Connector Crimp/ Solder Attachment for RG142, RG223, RG400, RG55

### RF Connectors Technical Data Sheet

PE45318

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

#### Plotted and Other Data

Notes:

BMA Plug Bulkhead Mount Slide-On Connector Crimp/Solder Attachment for RG142, RG223, RG400, RG55 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.

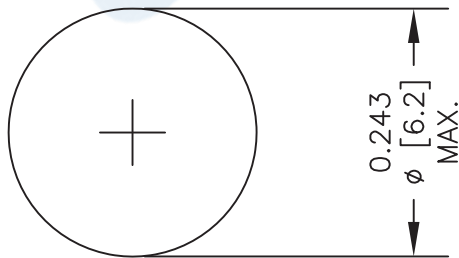
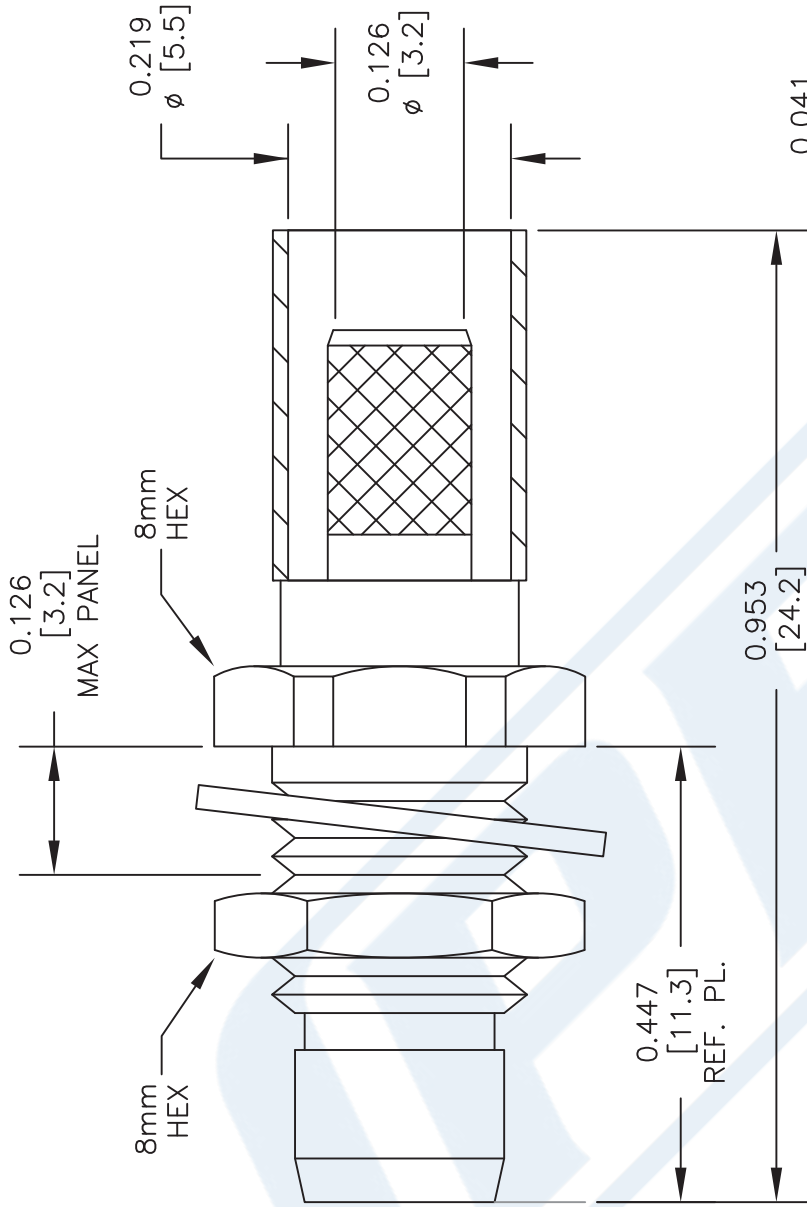
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Plug Bulkhead Mount Slide-On Connector Crimp/Solder Attachment for RG142, RG223, RG400, RG55 PE45318](#)

URL: <https://www.pasternack.com/bma-plug-slide-on-rg142-rg223-rg400-rg55-connector-pe45318-p.aspx>

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# PE45318 CAD Drawing

BMA Plug Bulkhead Mount Slide-On Connector Crimp/Solder  
Attachment for RG142, RG223, RG400, RG55



MOUNTING HOLE

### ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. SLIDE HEAT SHRINK AND FERRULE ONTO CABLE.
3. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
4. FLARE BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
5. SLIDE FERRULE OVER BRAID AND CRIMP WITH .213" HEX CRIMP TOOL.

### STRIPPING DIMENSIONS

DWG TITLE

**PE45318**

- 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].

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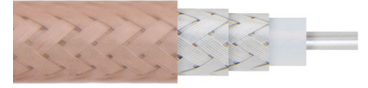
CAGE CODE 53919

CAD FILE 022317

SCALE N/A

SIZE A

2233



## Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG142B/U**

#### Configuration

- Flexible Cable
- 2 Shield(s)

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Shielding Effectiveness	70			dB
Operating Voltage (AC)			1,900	Vrms
Dielectric Withstanding Voltage (DC)			5,000	Vdc
Inner Conductor DC Resistance			65	Ohms/1000ft
Outer Conductor DC Resistance			9	Ohms/1000ft
Nominal Capacitance		96.45 [316.44]		pF/ft [pF/m]
Insulation Resistance	5,000			MOhms/1000ft
Power@ 1GHz			395	Watts

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3	5	GHz
Attenuation, Typ	3.9	7.9	12.9	23.9	32.1	dB/100ft
	12.8	25.92	42.32	78.41	105.31	dB/100m

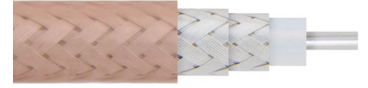
Description	F6	F7	F8	F9	F10	Units
Frequency	6	8				GHz
Attenuation, Typ	36.86	44.17				dB/100ft
	120.93	144.91				dB/100m

#### Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.042 lbs/ft [0.06 kg/m]

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](#)





## Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG142B/U**

Min. Bend Radius (Installation)	0.98 in [24.89 mm]
Min. Bend Radius (Repeated)	1.97 in [50.04 mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.116 in [2.95 mm]
First Shield	Silver Plated Copper Braid	[ ]
Second Shield	Silver Plated Copper Braid	0.156 in [3.96 mm]
Jacket	FEP, Tan	0.195 in [4.95 mm]

#### Environmental Specifications

##### Temperature

Operating Range	-55 to +200 deg C
Installation Range	-20 to +50 deg C
Storage Range	0 to +40 deg C

Humidity	0 - 80% Relative Humidity
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#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

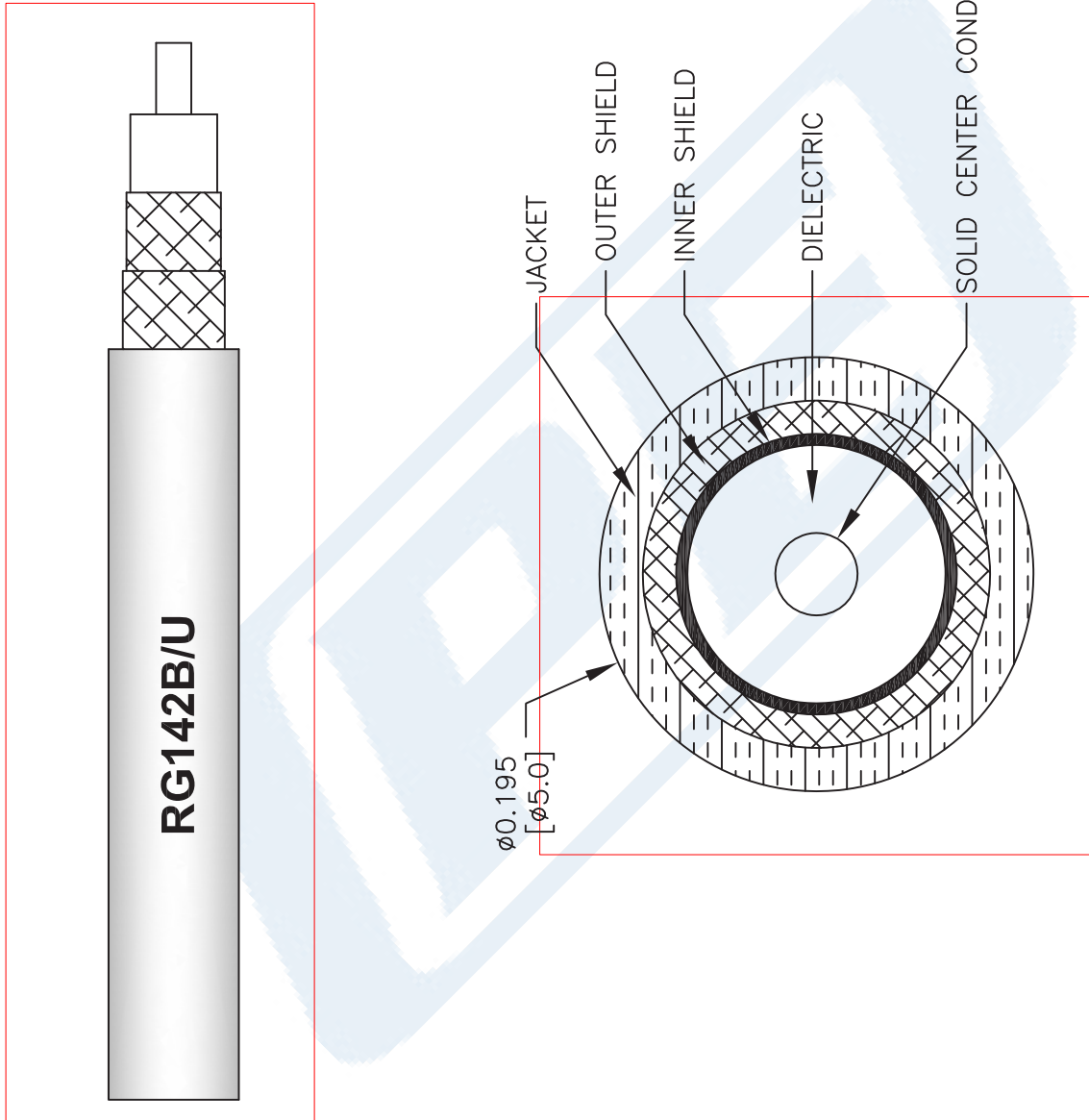
Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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

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

# RG142B/U CAD Drawing

Flexible RG142 Coax Cable Double Shielded with Tan FEP 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).

DWG TITLE  
**RG142B/U**

FSCM NO. 53919

CAD FILE 111716

SCALE N/A

SIZE A 41742

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