



SHV Plug Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400

RF Connectors Technical Data Sheet

PE4497

Configuration

- SHV Plug Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: RG55, RG142, RG223, RG400

Features

- Max. Operating Frequency 300 MHz
- Gold Plated Brass Contact

- 30 µinches minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4497 SHV plug 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 SHV plug connector operates up to a maximum frequency of 300 MHz.

Our SHV plug connector PE4497 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 | | 300 | MHz |
| Operating Voltage (AC) | | | 1,400 | Vrms |

Mechanical Specifications

Size

Length

1.78 in [45.21 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: [SHV Plug Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 PE4497](#)



SHV Plug Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400

RF Connectors Technical Data Sheet

PE4497

Material Specifications

| Description | Material | Plating |
|-------------|----------|-------------------------------|
| Contact | Brass | Gold 30 pinches minimum |
| Insulation | Teflon | |
| Body | Brass | Nickel 100 pinches minimum |

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

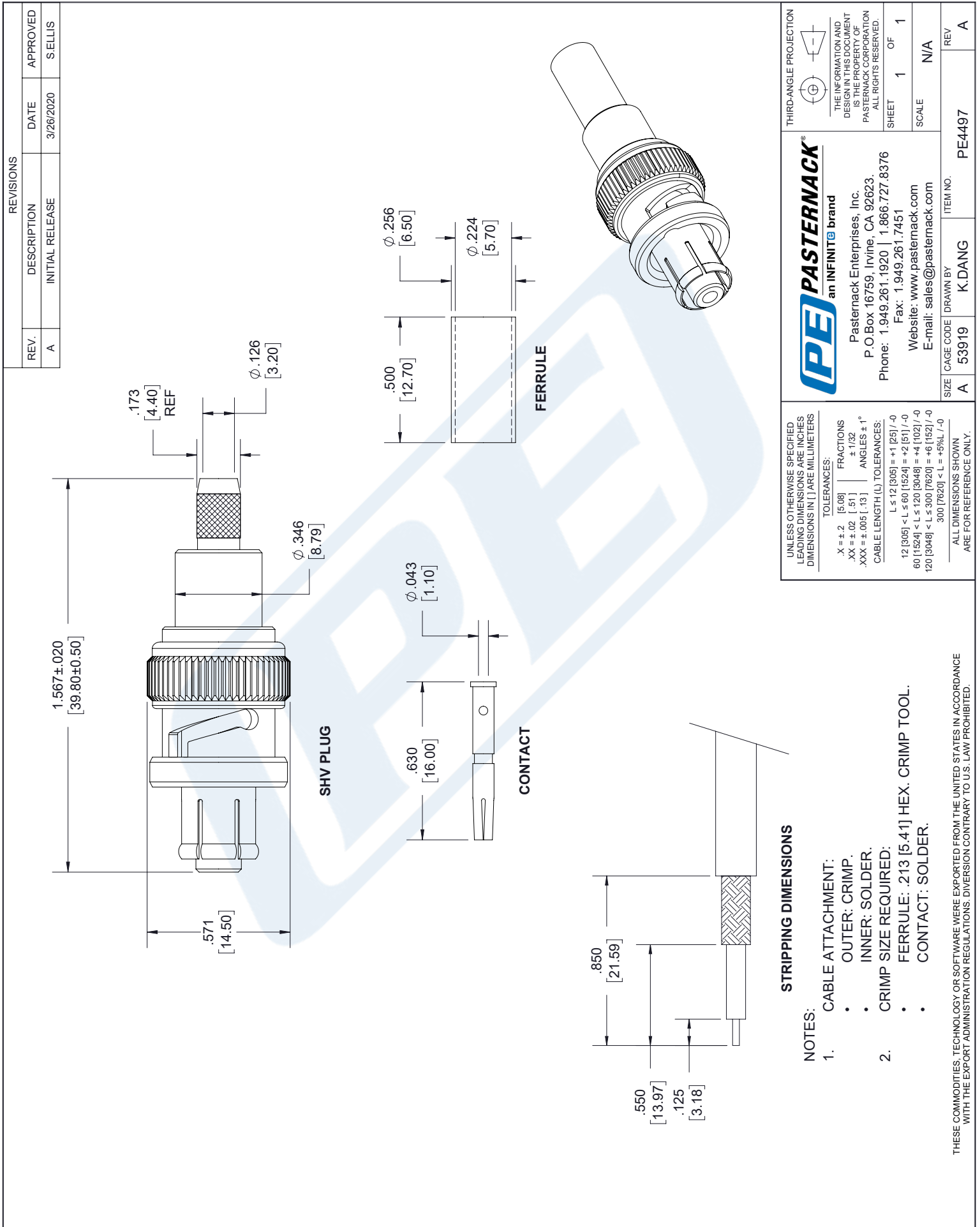
Notes:

SHV Plug 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: [SHV Plug Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 PE4497](#)

URL: <https://www.pasternack.com/shv-plug-rg55-rg142-rg223-rg400-connector-pe4497-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.





HN Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141

RF Connectors Technical Data Sheet

PE4477

Configuration

- HN Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG55, RG142, RG223, RG400, RG141 Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 10 GHz
- Gold Plated Brass Contact
- 30 μ m minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4477 HN male connector with crimp/solder attachment for RG55, RG142, RG223, RG400 and RG141 is part of our full line of RF components available for same-day shipping. Our HN male connector operates up to a maximum frequency of 10 GHz.

Our HN male connector PE4477 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 | | 10 | GHz |
| Operating Voltage (AC) | | | 1,500 | Vrms |

Mechanical Specifications

Size

| | |
|------------|---------------------|
| Length | 1.613 in [40.97 mm] |
| Width/Dia. | 0.9 in [22.86 mm] |
| Weight | 0.094 lbs [42.64 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [HN Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141 PE4477](#)



HN Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141

RF Connectors Technical Data Sheet

PE4477

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 |

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

HN Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141 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.

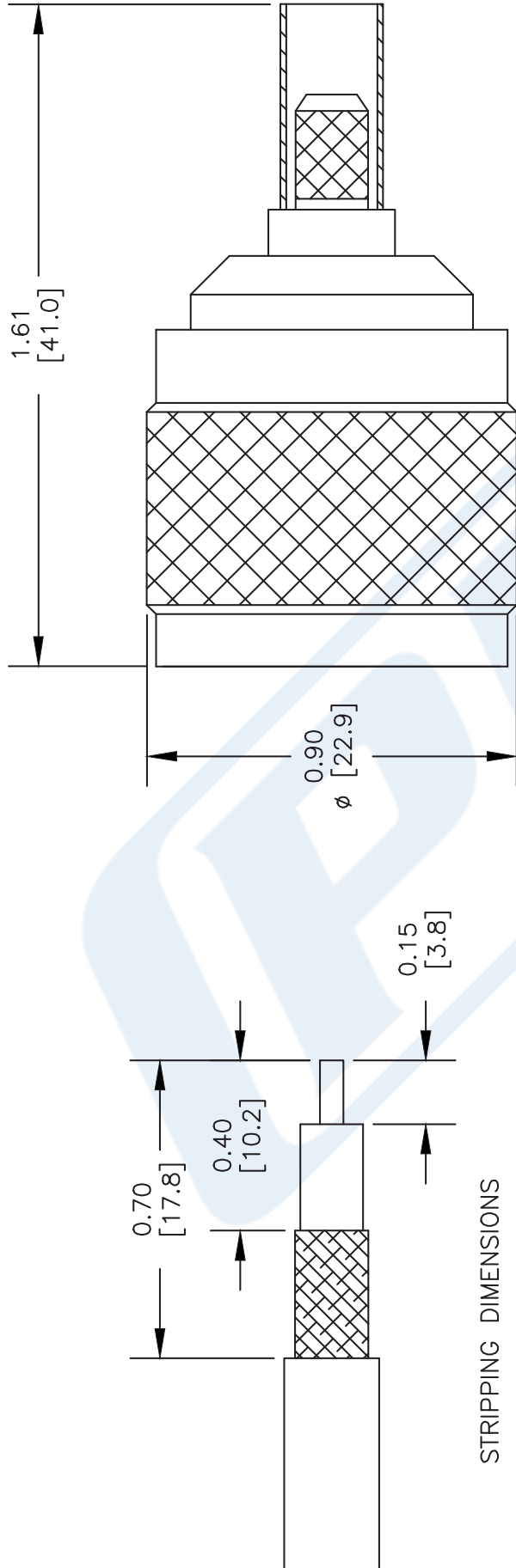
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [HN Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141 PE4477](#)

URL: <https://www.pasternack.com/hn-male-standard-rg55-rg142-rg223-rg400-connector-pe4477-p.aspx>

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PE4477 CAD Drawing

HN Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: .100" HEX CRIMP TOOL

FERRULE: .213" HEX CRIMP TOOL

DWG TITLE

PE4477

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].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

REV. -

FSCM NO. 53919

CAD FILE 051602

SCALE N/A

SIZE A

2233

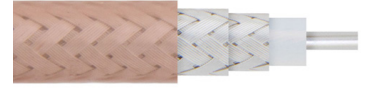
PE PASTERNAK®

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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

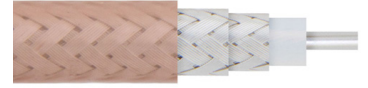
| Description | F1 | F2 | F3 | F4 | F5 | Units |
|------------------|------|-------|-------|-------|--------|----------|
| Frequency | 0.1 | 0.4 | 1 | 3 | 5 | GHz |
| Attenuation, Typ | 3.9 | 7.9 | 12.9 | 23.9 | 32.1 | dB/100ft |
| | 12.8 | 25.92 | 42.32 | 78.41 | 105.31 | dB/100m |

| 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 |

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

Plotted and Other Data

Notes:

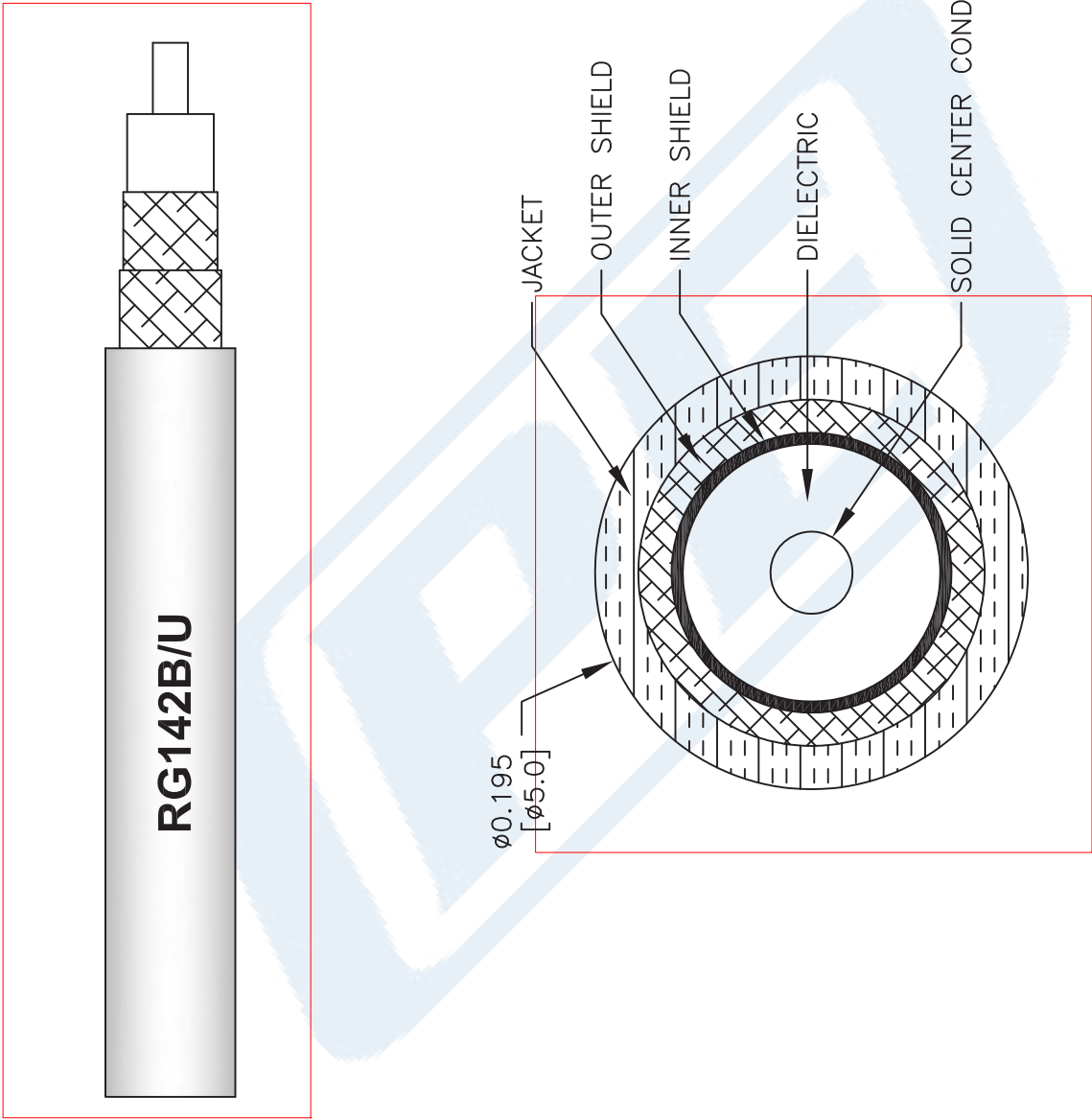
Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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



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3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
RG142B/U

FSCM NO. 53919

SIZE A

SCALE N/A

CAD FILE

111716

41742



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