



## SMA Male Connector Crimp/Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

**PE4398**

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 1,000 MHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 50  $\mu$ m minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4398 SMA male connector with crimp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 1,000 MHz and offers good VSWR of 1.3:1.

Our SMA male connector PE4398 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      |         | 1,000   | MHz   |
| VSWR                   |         |         | 1.3:1   |       |
| Operating Voltage (AC) |         |         | 250     | Vrms  |

#### Mechanical Specifications

##### Size

|               |                                 |
|---------------|---------------------------------|
| Length        | 1.047 in [26.59 mm]             |
| Width/Dia.    | 0.315 in [8.00 mm]              |
| Weight        | 0.017 lbs [7.71 g]              |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG178, RG196 PE4398](#)



## SMA Male Connector Crimp/Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

**PE4398**

#### Material Specifications

| Description  | Material | Plating                   |
|--------------|----------|---------------------------|
| Contact      | Brass    | Gold<br>50 µin minimum    |
| Insulation   | PTFE     |                           |
| Body         | Brass    | Nickel<br>100 µin minimum |
| Coupling Nut | Brass    | Nickel<br>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:

SMA Male Connector Crimp/Solder Attachment for RG178, RG196 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.

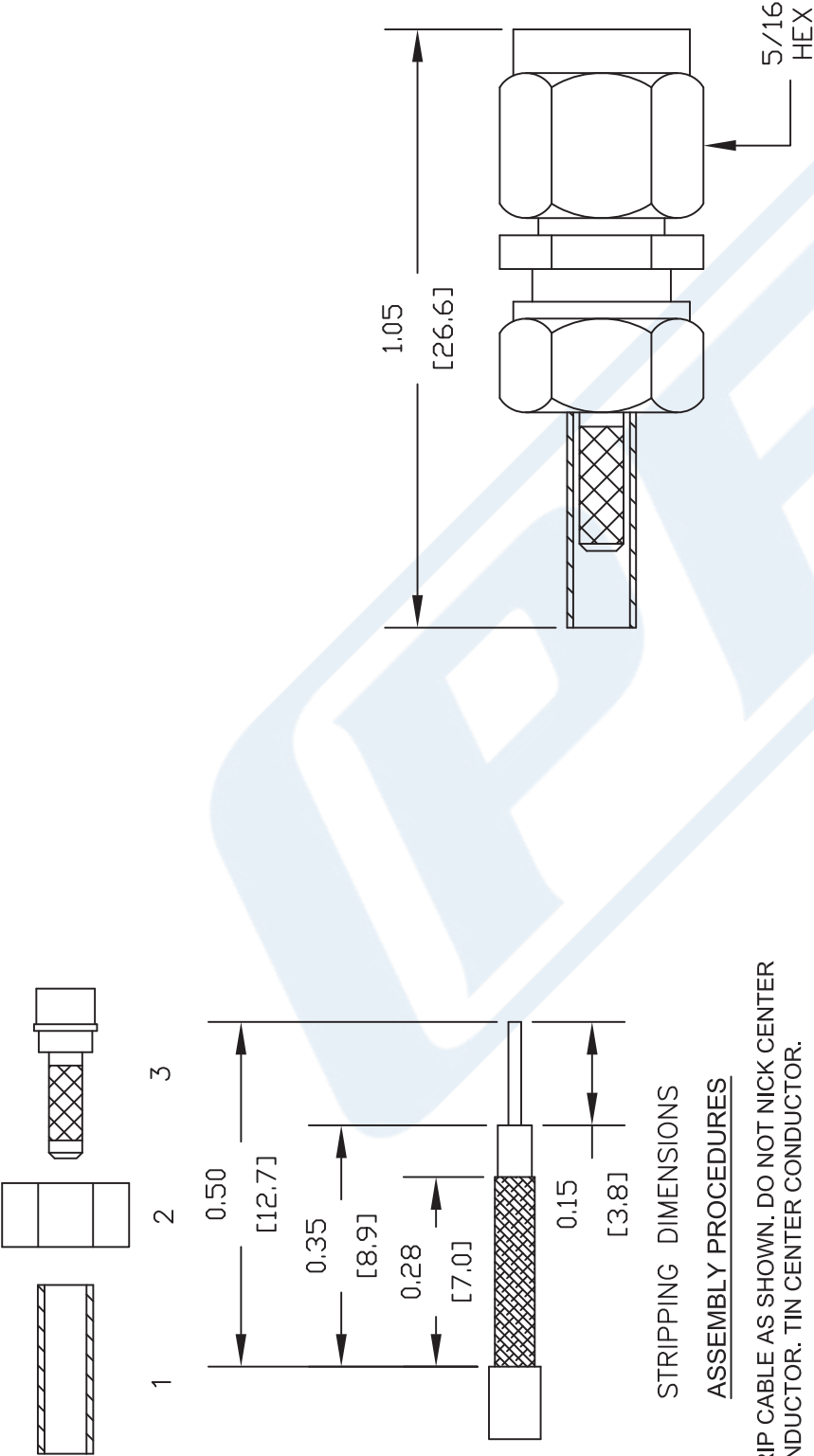
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG178, RG196 PE4398](#)

URL: <https://www.pasternack.com/sma-male-standard-rg178-rg196-connector-pe4398-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.

PE4398 CAD Drawing

SMA Male Connector Crimp/Solder Attachment for RG178, RG196



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.

DWG TITLE  
**PE4398**

REV. - FSCM NO. 53919 CAD FILE 051602 SCALE N/A SIZE A 127

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## SSMB Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .126 inch D Hole

### RF Connectors Technical Data Sheet

**PE4337**

#### Configuration

- SSMB Jack Connector
- MIL-PRF-39012
- 50 Ohms
- Straight Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment
- Bulkhead

#### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.5:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-PRF-39012

#### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

#### Description

Pasternack's PE4337 SSMB jack bulkhead connector with crimp/solder attachment for RG178 and RG196 (.126 inch D hole) is part of our full line of RF components available for same-day shipping. Our SSMB jack connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.5:1. This SSMB 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 SSMB jack bulkhead connector PE4337 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                               |         |         | 1.5:1   |       |
| Operating Voltage (AC)             |         |         | 250     | Vrms  |
| High Potential Voltage<br>at 5 MHz |         |         | 400     | Vrms  |
| Corona Discharge<br>at 70,000 feet |         |         | 125     | Vrms  |
| Insulation Resistance              | 1,000   |         |         | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .126 inch D Hole PE4337](#)



SSMB Jack Bulkhead Mount Connector Crimp/Solder  
Attachment for RG178, RG196, .126 inch D Hole

## RF Connectors Technical Data Sheet

**PE4337**

### Mechanical Specifications

**Size**

Length 0.73 in [18.54 mm]

Width/Dia. 0.156 in [3.96 mm]

Weight 0.0083 lbs [3.76 g]

Mating Cycles 500 Cycles

### Material Specifications

| Description | Material         | Plating               |
|-------------|------------------|-----------------------|
| Contact     | Beryllium Copper | Gold<br>MIL-PRF-39012 |
| Insulation  | PTFE             |                       |
| Body        | Brass            | Gold<br>MIL-PRF-39012 |

### Environmental Specifications

**Temperature**

Operating Range -65 to +165 deg C

Shock MIL-STD-202, Method 213, Condition B (75G)

Vibration MIL-STD-202, Method 204, Condition B (15G)

Salt Spray MIL-STD-202, Method 101, Condition B, 5% salt solution

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .126 inch D Hole PE4337](#)



## SSMB Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .126 inch D Hole

### RF Connectors Technical Data Sheet

**PE4337**

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

#### Plotted and Other Data

Notes:

SSMB Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .126 inch D Hole 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: [SSMB Jack Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196, .126 inch D Hole PE4337](#)

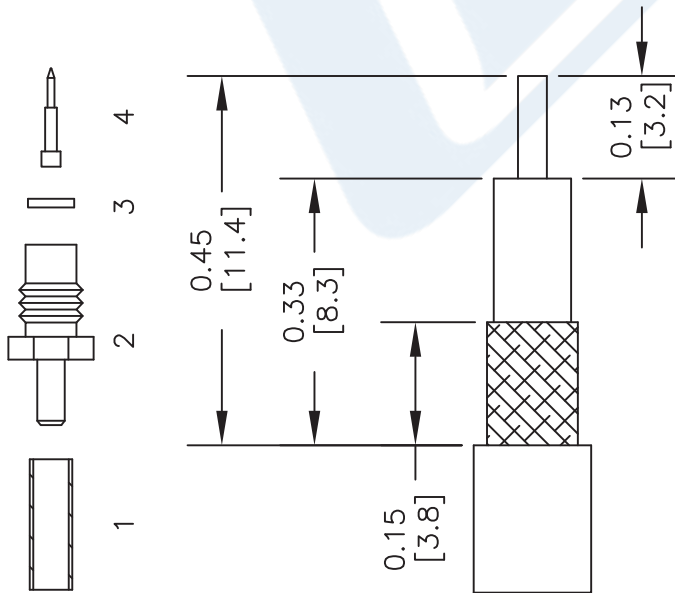
URL: <https://www.pasternack.com/ssmb-jack-standard-rg178-rg196-connector-pe4337-p.aspx>

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# PE4337 CAD Drawing

SSMB Jack Bulkhead Mount Connector Crimp/Solder  
Attachment for RG178, RG196, .126 inch D Hole



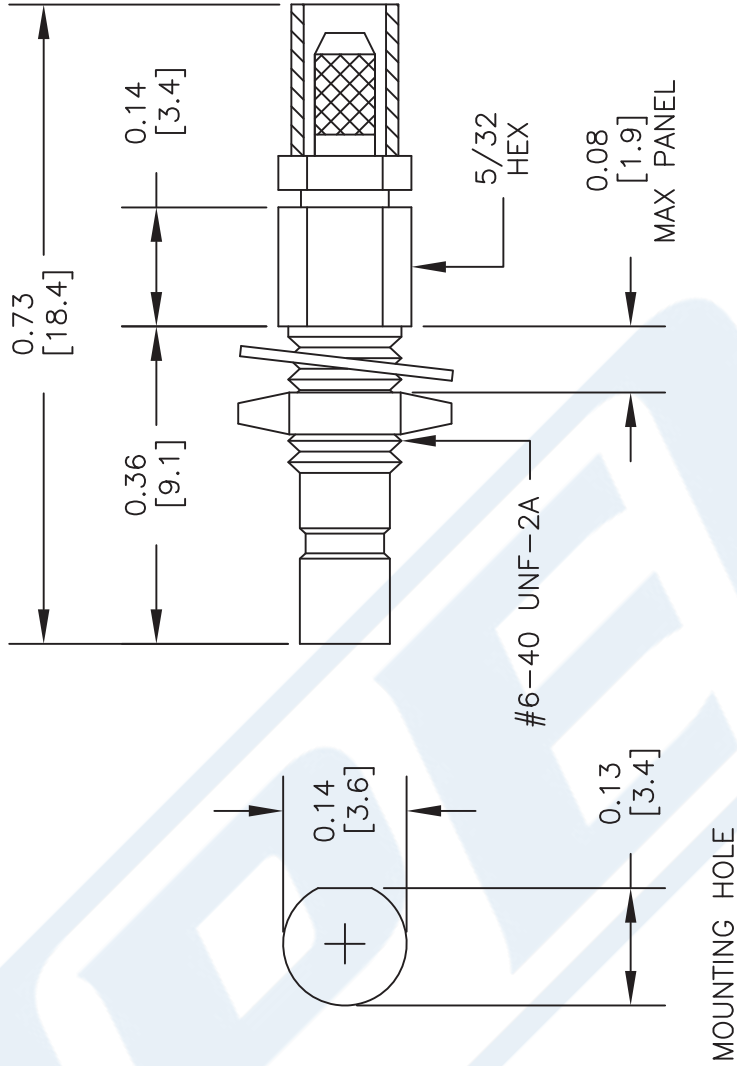
## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1) ONTO CABLE. TIN CENTER CONDUCTOR.
2. ADD CRIMP NUT (2) BY SLIDING EXTENSION BETWEEN BRAID & DIELECTRIC. SLIDE FERRULE (1) OVER BRAID & CRIMP.
3. SLIDE PTFE (3) OVER CENTER CONDUCTOR. SOLDER CONTACT (4) TO CENTER CONDUCTOR.
4. SLIDE ASSEMBLY INTO BODY & TIGHTEN.

## CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .100" HEX CRIMP TOOL



DWG TITLE

**PE4337**

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

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FSCM NO. 53919

CAD FILE 050802

SCALE N/A

SIZE A

2233

## Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

## RF Cables Technical Data Sheet

RG178B/U

## Configuration

- Flexible Cable
- 1 Shield(s)

## Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 3       | GHz          |
| Impedance               |         | 50           |         | Ohms         |
| Velocity of Propagation |         | 70           |         | %            |
| Operating Voltage (AC)  |         |              | 1,000   | Vrms         |
| Nominal Capacitance     |         | 29.4 [96.46] |         | pF/ft [pF/m] |

## Performance by Frequency Band

| Description      | F1    | F2    | F3    | F4     | F5 | Units    |
|------------------|-------|-------|-------|--------|----|----------|
| Frequency        | 0.1   | 0.4   | 1     | 3      |    | GHz      |
| Attenuation, Typ | 13.81 | 27.8  | 44.41 | 78.4   |    | dB/100ft |
|                  | 45.31 | 91.21 | 145.7 | 257.22 |    | dB/100m  |

## Mechanical Specifications

|                             |                          |
|-----------------------------|--------------------------|
| Diameter                    | 0.072 in [1.83 mm]       |
| Weight                      | 0.005 lbs/ft [0.01 Kg/m] |
| Min. Bend Radius (Repeated) | 0.4 in [10.16 mm]        |

## Construction Specifications

| Description     | Material and Plating                 | Diameter           |
|-----------------|--------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 7 Strands | 0.012 in [0.3 mm]  |
| Conductor Type  | Stranded                             |                    |
| Dielectric      | PTFE                                 | 0.034 in [0.86 mm] |
| First Shield    | Silver Plated Copper Braid           | 0.051 in [1.3 mm]  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket RG178B/U](#)



## Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG178B/U**

|        |          |                    |
|--------|----------|--------------------|
| Jacket | FEP, Tan | 0.072 in [1.83 mm] |
|--------|----------|--------------------|

#### Environmental Specifications

##### Temperature

Operating Range -55 to +200 deg C

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

#### Plotted and Other Data

Notes:

Flexible RG178 Coax Cable Single 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.

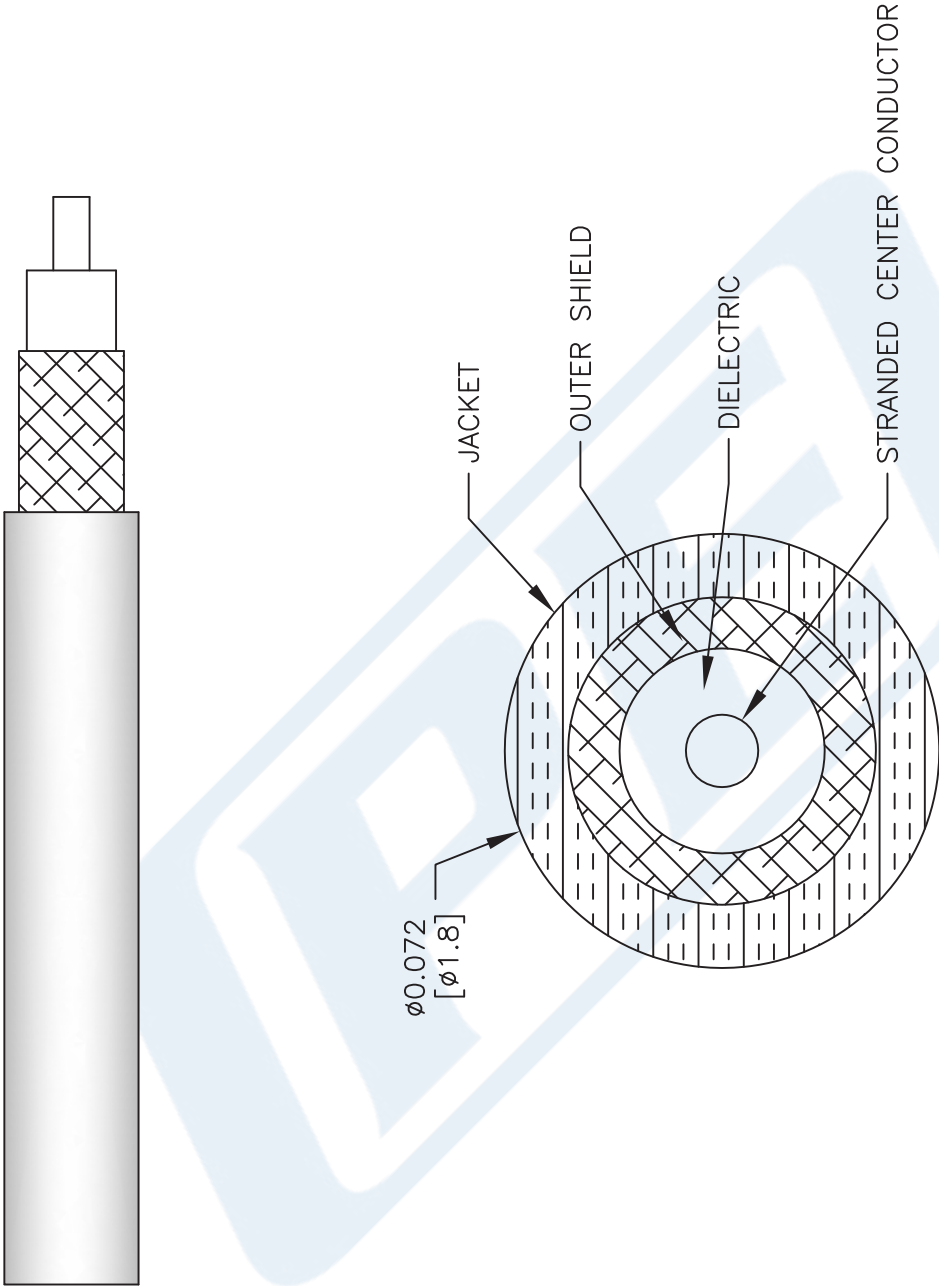
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URL: <https://www.pasternack.com/flexible-0.075-rg178-50-ohm-coax-cable-fep-jacket-rg178b-u-p.aspx>

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# RG178B/U CAD Drawing

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket



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DWG TITLE  
**RG178B/U**

CAGE CODE 53919

CAD FILE 062117

SCALE N/A

SIZE A

2233

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