



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

### RF Connectors Technical Data Sheet

PE4008

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry

- RG55, RG142, RG223, RG400, RG141 Interface Type
- Crimp/Solder Attachment
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.28:1

- Gold Plated Brass Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4008 SMA 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 SMA male connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.28:1.

Our SMA male connector PE4008 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	
Operating Voltage (AC)			500	Vrms

#### Mechanical Specifications

Size	
Length	0.901 in [22.89 mm]
Width/Dia.	0.315 in [8.00 mm]
Weight	0.015 lbs [6.8 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 RG55, RG142, RG223, RG400, RG141 PE4008](#)



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

### RF Connectors Technical Data Sheet

PE4008

#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 $\mu$ in minimum
Insulation	PTFE	
Body	Brass	Nickel 100 $\mu$ in minimum
Coupling Nut	Brass	Nickel 100 $\mu$ in 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:

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 RG55, RG142, RG223, RG400, RG141 PE4008](#)

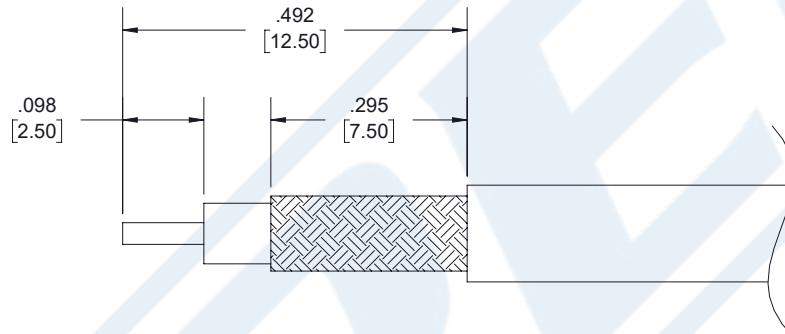


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PE4008

**Assembly Instruction**



**ASSEMBLY PROCEDURES**

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

**CRIMP SIZE REQUIRED**

- CONTACT: SOLDER.
- FERRULE: .213 HEX CRIMP TOOL.

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 RG55, RG142, RG223, RG400, RG141 PE4008](#)



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

### RF Connectors Technical Data Sheet

PE4008

SMA 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 99.4% availability and are part of the broadest selection in the industry.

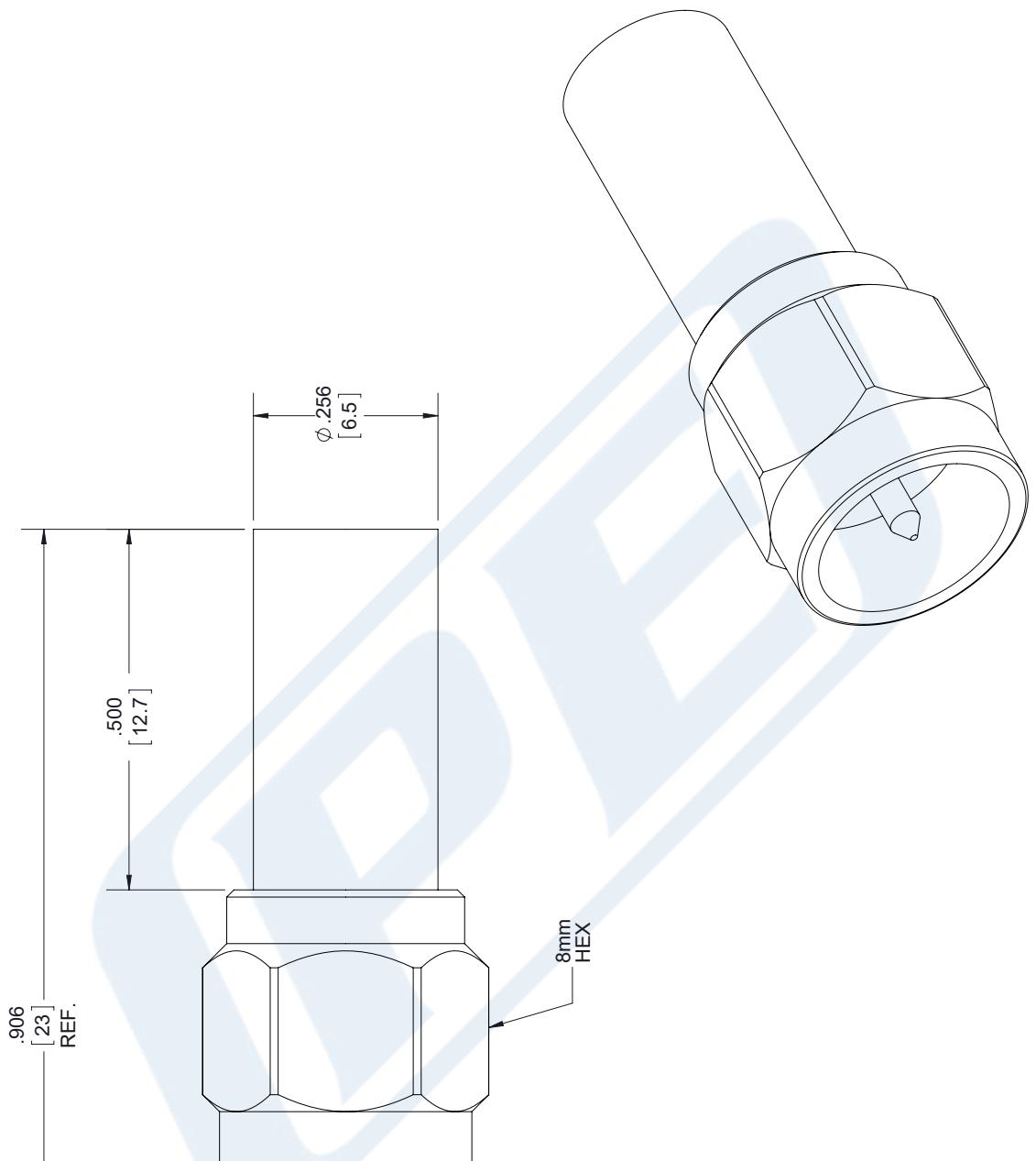
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141 PE4008](#)

URL: <https://www.pasternack.com/sma-male-standard-rg55-rg142-rg223-rg400-connector-pe4008-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.

# PE4008 CAD Drawing

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



STANDARD TOLERANCES		
.X	$\pm 0.2$	
.XX	$\pm 0.01$	
.XXX	$\pm 0.005$	

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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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	CAGE CODE	CAD FILE	SCALE	SIZE	REV
PE4008	53919	072617	N/A	A	2233



## SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141, .235 inch D Hole

### RF Connectors Technical Data Sheet

PE4419

#### Configuration

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

#### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50  $\mu$ in minimum contact plating

#### Applications

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

#### Description

Pasternack's PE4419 SMA female bulkhead connector with crimp/solder attachment for RG55, RG142, RG223, RG400 and RG141 (.235 inch D hole) is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.3:1. This SMA 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 SMA female bulkhead connector PE4419 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			1.3:1	
Operating Voltage (AC)			500	Vrms

#### Mechanical Specifications

Size	
Length	1.005 in [25.53 mm]
Width/Dia.	0.315 in [8.00 mm]
Weight	0.013 lbs [5.9 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141, .235 inch D Hole PE4419](#)



## SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141, .235 inch D Hole

### RF Connectors Technical Data Sheet

PE4419

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 $\mu$ in minimum
Insulation	PTFE	
Body	Brass	Nickel 100 $\mu$ in minimum
Crimp Sleeve	Brass	Nickel
Washer	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 Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141, .235 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.

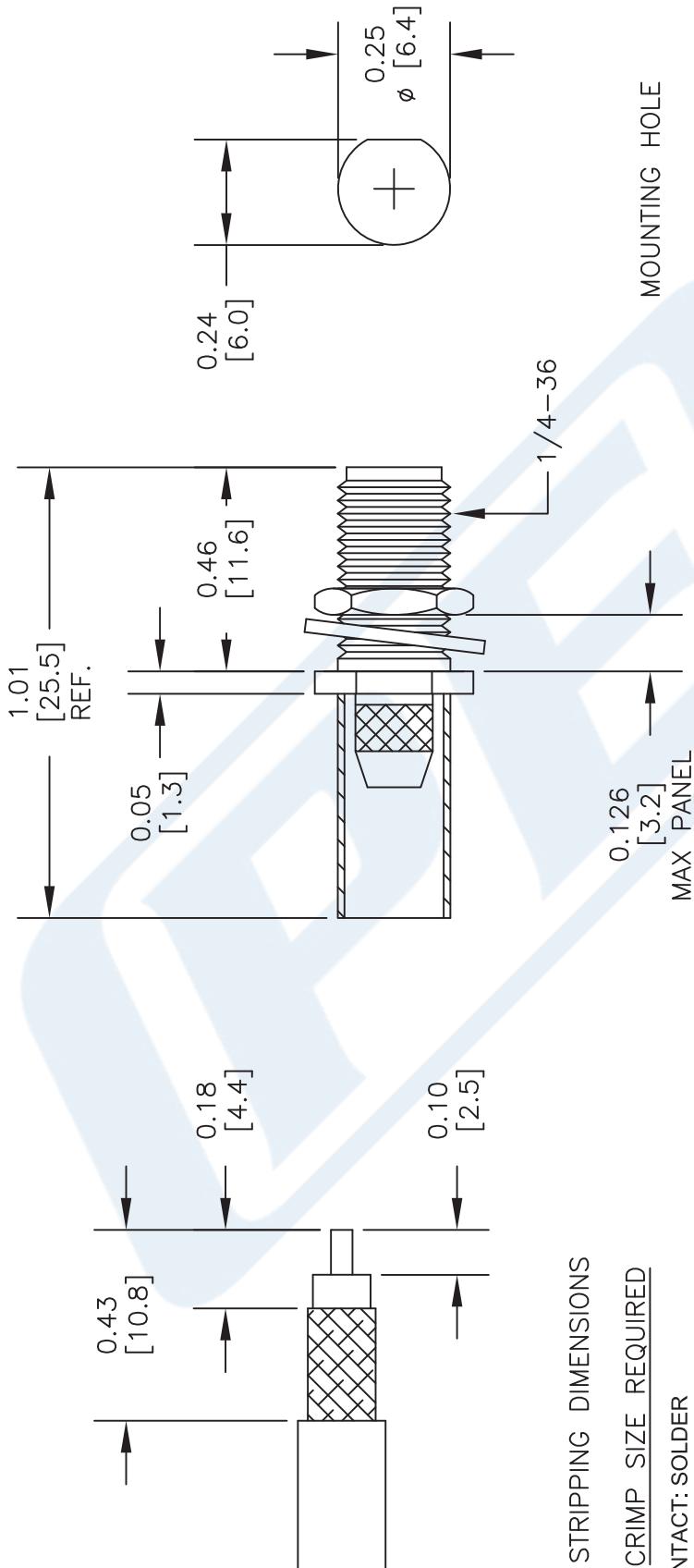
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead Mount Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400, RG141, .235 inch D Hole PE4419](#)

URL: <https://www.pasternack.com/sma-female-standard-rg55-rg142-rg223-rg400-connector-pe4419-p.aspx>

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# PE4419 CAD Drawing

SMA Female Bulkhead Mount Connector Crimp/Solder Attachment  
for RG55, RG142, RG223, RG400, RG141, .235 inch D Hole



NOTES:  
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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  
**PE4419**

**PE PASTERNACK**  
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FSM NO.	CAD FILE	SCALE	SIZE	REV
53919	1222313	N/A	A	2233

## Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

### TECHNICAL DATA SHEET

RG223/U

#### Configuration

Inner Conductor Material and Plating  
 Dielectric Type  
 Shield Materials  
 Jacket Material and Color

Copper, Silver  
 PE  
 Silver Plated Copper Braid, Silver Plated Copper Braid  
 PVC, Black

#### Electrical Specifications

Impedance, Ohms	50
Velocity of Propagation, %	66
Maximum Operating Frequency, GHz	12.4
Capacitance, pF/ft [pF/m]	30.8 [101.05]
Maximum Operating Voltage, Volts	1,900

#### Electrical Specifications by Frequency

##### Frequency 1

Frequency, MHz	100
Attenuation, dB/100ft [dB/100m]	4 [13.12]

##### Frequency 2

Frequency, MHz	400
Attenuation, dB/100ft [dB/100m]	8.2 [26.9]

##### Frequency 3

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	13.4 [43.96]

##### Frequency 4

Frequency, GHz	3
Attenuation, dB/100ft [dB/100m]	24.8 [81.36]

##### Frequency 5

Frequency, GHz	5
Attenuation, dB/100ft [dB/100m]	33.5 [109.91]

##### Frequency 6

Frequency, GHz	11
Attenuation, dB/100ft [dB/100m]	54.1 [177.49]

#### Mechanical Specifications

##### Temperature

Operating Range, deg C      -20 to +80

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket RG223/U](#)



## Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

### TECHNICAL DATA SHEET

RG223/U

**Inner Conductor**

Number of Strands 1  
 Material Copper  
 Plating Silver  
 Diameter, in [mm] 0.035 [0.89]

**Dielectric:**

Type PE  
 Diameter, in [mm] 0.116 [2.95]

**Shield:**

Number of 2  
 Material 1 Silver Plated Copper Braid  
 Material 2 Silver Plated Copper Braid  
 Diameter, in [mm] 0.156 [3.96]

**Jacket:**

Material PVC  
 Diameter, in [mm] 0.21 [5.33]  
 Color Black  
 One Time Minimum Bend Radius, in [mm] 0.21 [5.33]  
 Repeated Minimum Bend Radius, in [mm] 1 [25.4]  
 Weight, lbs/ft [Kg/m] 0.038 [0.06]

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant  
 REACH Compliant

06/18/2012

**Plotted and Other Data**

Notes:  
 • Values at +25 °C, sea level

Flexible RG223 Coax Cable Double Shielded with Black PVC 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.

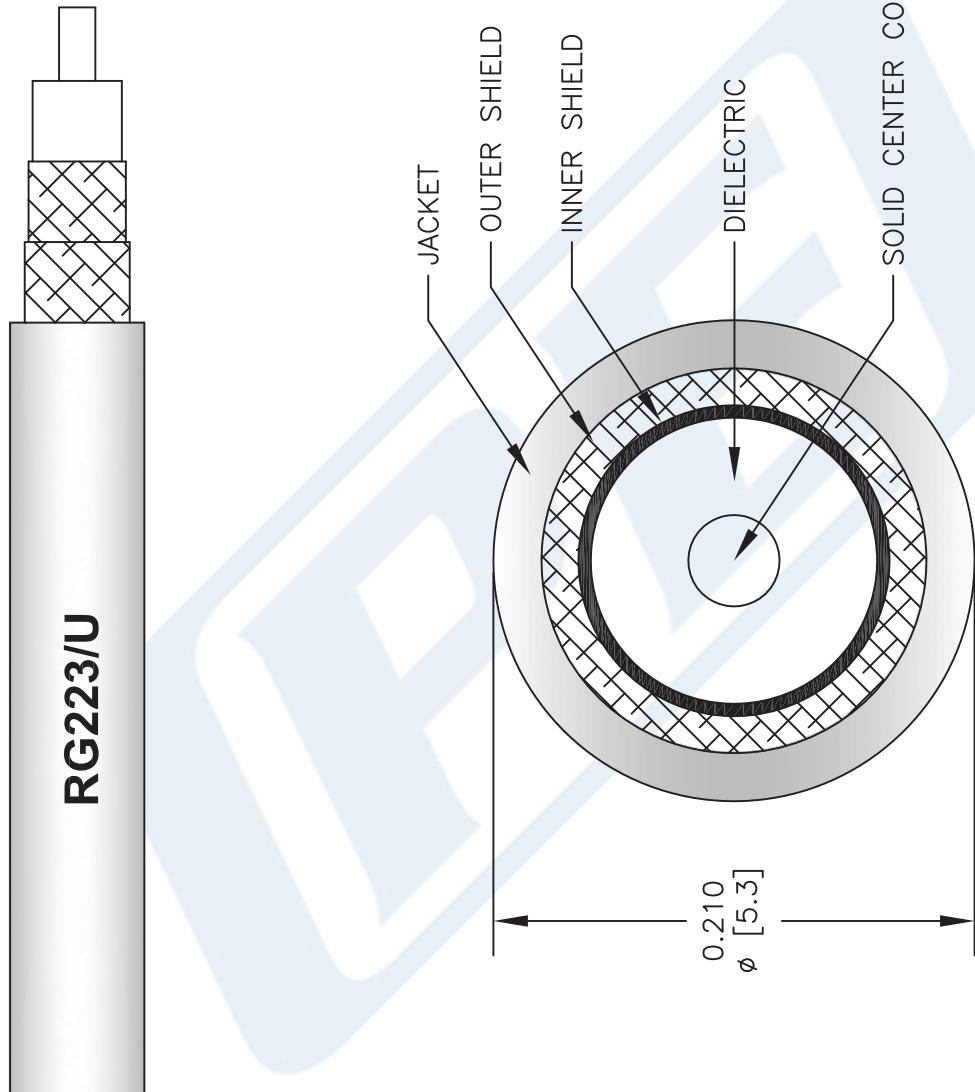
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket RG223/U](#)

URL: <http://www.pasternack.com/flexible-0.216-rg223-50-ohm-coax-cable-pvc-jacket-rg223-u-p.aspx>

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# RG223/U CAD Drawing

Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket



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DWG TITLE  
**RG223/U**

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FSCM NO.	CAD FILE	SCALE	SIZE	REV
53919	060508-B	N/A	A	2233