PASTERNACK
an INFINITE brand

SMB Plug Right Angle Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400

RF Connectors
Technical Data Sheet

PE4595

Configuration

- SMB Plug Connector
- 50 Ohms
- Right Angle Body Geometry

- RG55, RG142, RG223, RG400 Interface Type
- Crimp/Solder Attachment

Features

- Gold Plated Beryllium Copper Contact
- 30μ in. minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4595 SMB plug right angle 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. Its right angle body geometry allows for easier connections in tight spaces.

Our SMB plug right angle connector PE4595 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.

Mechanical Specifications

Size

Length	0.755 in [19.18 mm]
Width/Dia.	0.25 in [6.35 mm]
Height	0.51 in [12.95 mm]
Weight	0.006 lbs [2.72 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30μ in. minimum
Insulation	Teflon	
Body	Brass	Nickel 100μ in. minimum
Coupling Nut	Brass	Nickel 100μ in. minimum

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMB Plug Right Angle Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 PE4595

PE4595 REV 1.2

Environmental Specifications
Temperature
Operating Range   -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

SMB Plug Right Angle 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: SMB Plug Right Angle Connector Crimp/Solder Attachment for RG55, RG142, RG223, RG400 PE4595
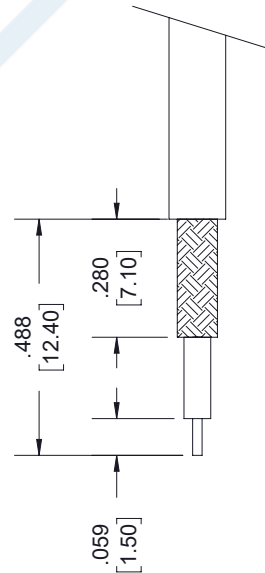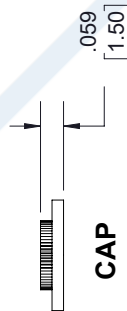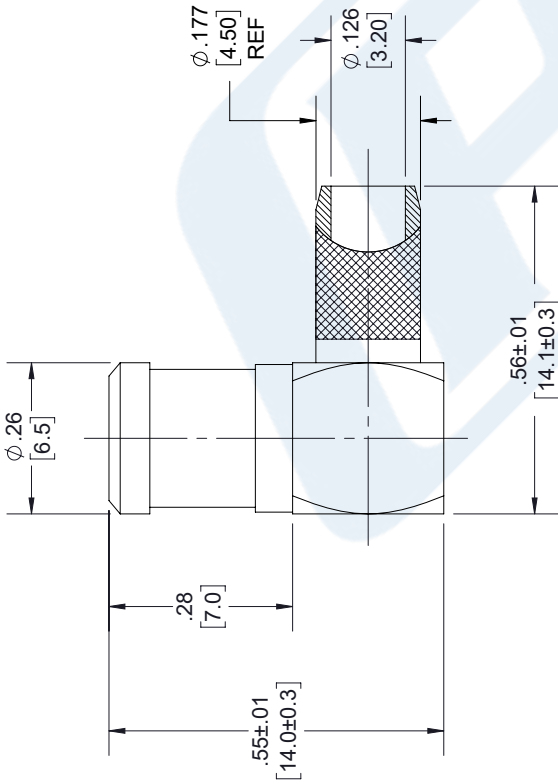
URL: https://www.pasternack.com/smb-plug-standard-rg55-rg142-rg223-rg400-connector-pe4595-p.aspx

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.

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PE4595 CAD Drawing

SMB Plug Right Angle Connector Crimp/Solder Attachment
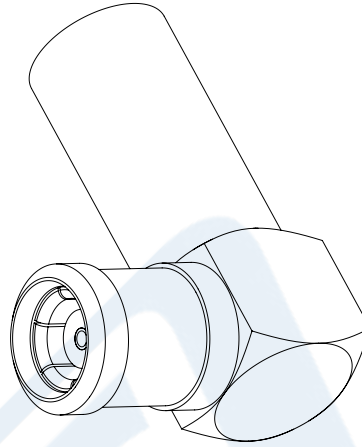## for RG55, RG142, RG223, RG400

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
1.1	PCR PE4595 20190415	04/27/19	J.GARCIA

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SHEET 1 OF 1
SCALE N/A
REV A

PART NUMBER: PE4595

SIZE	CAGE	DRAWN BY
A	53919	K.DANG

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

TOLERANCES:
.X=±.2 [5.08]   FRACTIONS
.XX=±.01 [.25]   ±1/32
.XXX=±.005 [.13]   ANGLES ±1°

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

FERRULE

Ø.256 [6.50]
.224 [5.70]
.50 [12.7]

Ø.177 [4.50] REF
Ø.126 [3.20]
.56±.01 [14.1±0.3]

Ø.26 [6.5]
.28 [7.0]
.55±.01 [14.0±0.3]

CAP

.059 [1.50]

STRIPPING DIMENSIONS

.488 [12.40]
.280 [7.10]
.059 [1.50]

NOTES:
1. CABLE ATTACHMENT:
   - OUTER: CRIMP.
   - INNER: SOLDER.
2. CRIMP SIZE REQUIRED:
   - FERRULE: .213 [5.41] HEX. CRIMP TOOL.
   - CONTACT: SOLDER.

T-Rev.B

SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195

RF Connectors
Technical Data Sheet   **PE4031**

Configuration
- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry

- RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 Interface Type
- Clamp/Solder Attachment

Features
- Gold Plated Contact

- Contact plating according to MIL-G-45204

Applications
- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4031 SMA female connector with clamp/solder attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195 and LMR-195 is part of our full line of RF components available for same-day shipping.

Our SMA female connector PE4031 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.

Mechanical Specifications

Size

Length	0.705 in [17.91 mm]
Width/Dia.	0.312 in [7.92 mm]
Weight	0.009 lbs [4.08 g]

Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Nickel QQ-N-290

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031

SMA Female Connector Clamp/Solder Attachment
for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

RF Connectors
Technical Data Sheet   **PE4031**

Environmental Specifications

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 Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031
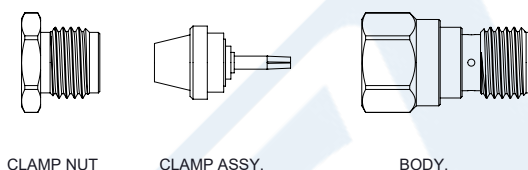
SMA Female Connector Clamp/Solder Attachment
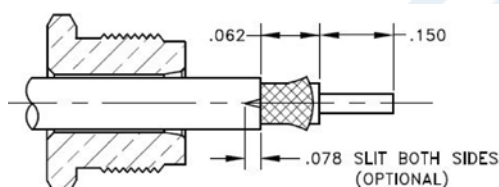for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

RF Connectors
Technical Data Sheet   **PE4031**

Assembly Instruction

CLAMP NUT   CLAMP ASSY.   BODY.

CABLE ASSEMBLY INSTRUCTIONS.

.062   .150
.078 SLIT BOTH SIDES (OPTIONAL)
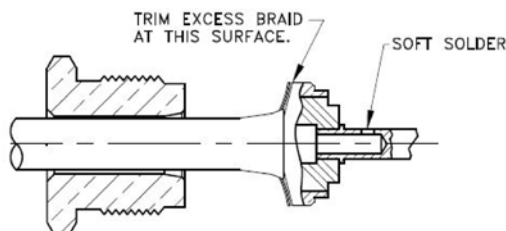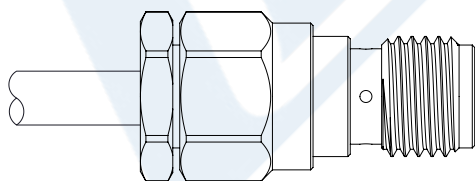
1.   SLIDE NUT ONTO CABLE AS SHOWN. CUT CABLE SQUARE.
     TRIM CABLE TO DIMENSIONS SHOWN BEING CAREFUL NOT
     TO NICK THE BRAID OR CENTER CONDUCTOR. ROTATE
     DIELECTRIC TO FLARE BRAID.

     NOTE: TWO SLITS IN THE JACKET 180° APART AS SHOWN
            MAY BE NEEDED TO PRESS JACKET TO SHOULDER.

TRIM EXCESS BRAID
AT THIS SURFACE.
SOFT SOLDER

2.   SLIDE CLAMP ASSY OVER DIELECTRIC AND UNDER BRAID
     UNTIL THE DIELECTRIC BOTTOMS OUT IN CLAMP AND THE
     CENTER CONDUCTOR IS VISIBLE INSIDE HOLE OF CONTACT.
     SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR.
     DO NOT OVERHEAT!.

TIGHTEN

3.   INSERT THE ASSEMBLY INTO THE REAR BODY. HOLD THE
     NUT STATIONARY AND TIGHTEN THE BODY TO 15 IN LBS.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price,
inventory and certifications: SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223,
RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031

SMA Female Connector Clamp/Solder Attachment
for RG55, RG58, RG141, RG142, RG223, RG303,
RG400, PE-C195, PE-P195, LMR-195

RF Connectors
Technical Data Sheet   PE4031

SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 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.
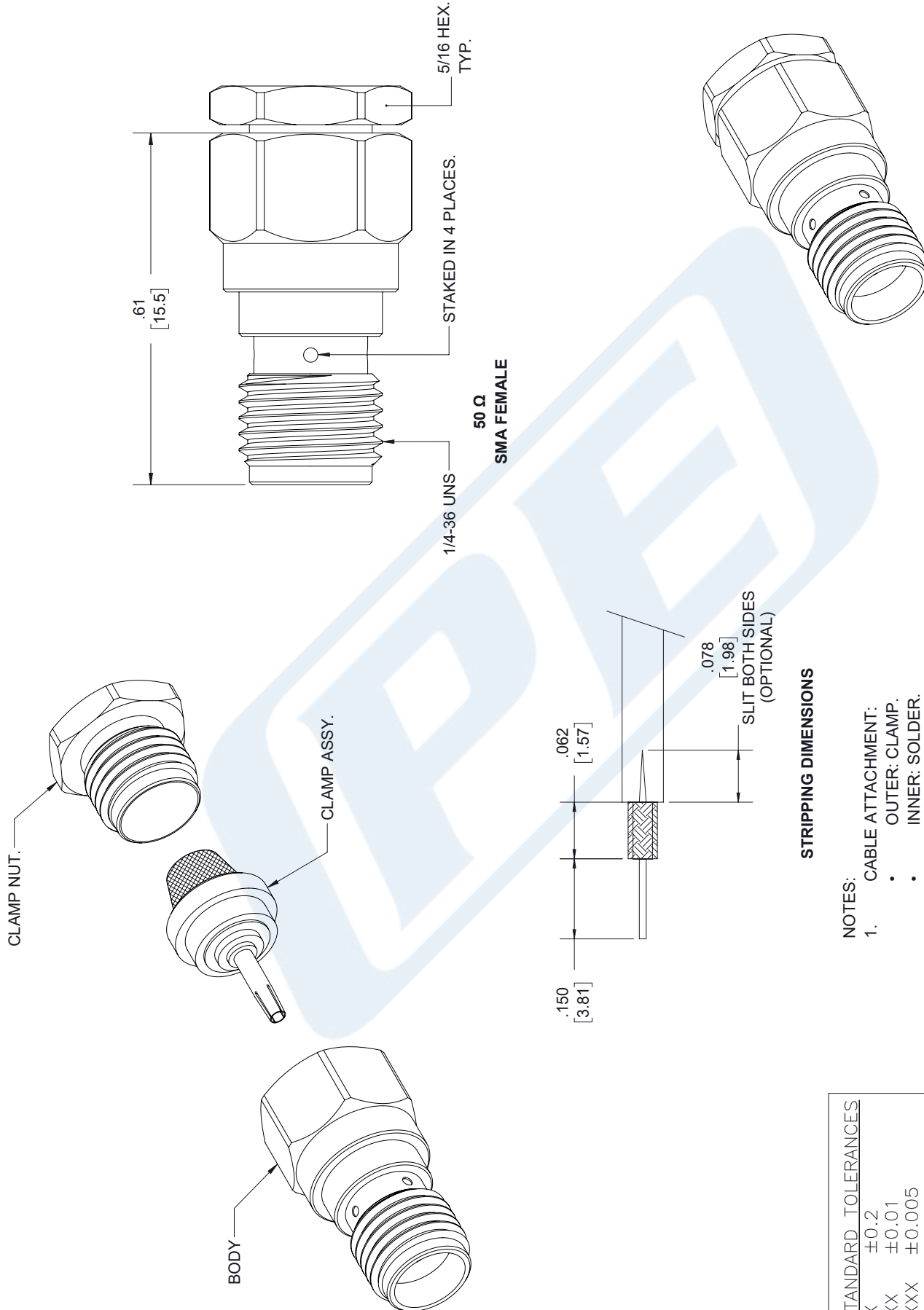
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031

URL: https://www.pasternack.com/sma-female-standard-rg58-rg55-rg142-rg223-rg400-connector-pe4031-p.aspx

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PE4031 CAD Drawing

SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195

5/16 HEX. TYP.

STAKED IN 4 PLACES.

.61
[15.5]

50 Ω
SMA FEMALE

1/4-36 UNS

CLAMP NUT.

CLAMP ASSY.

BODY

STRIPPING DIMENSIONS

.078
[1.98]

SLIT BOTH SIDES
(OPTIONAL)

.062
[1.57]

.150
[3.81]

NOTES:
1. CABLE ATTACHMENT:
   - OUTER: CLAMP.
   - INNER: SOLDER.

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].

7361

SIZE A

SCALE N/A

CAD FILE 12/13/18

DWG TITLE

PE4031

CAGE CODE 53919

STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

PE4031 REV 1.2

5

TECHNICAL DATA SHEET   RG400/U

Flexible RG400 Coax Cable Double Shielded with Tan FEP Jacket

Configuration

Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Shield Materials	Silver Plated Copper Braid, Silver Plated Copper Braid
Jacket Material and Color	FEP, Tan

Electrical Specifications

Impedance, Ohms	50
Velocity of Propagation, %	69.5
Maximum Operating Frequency, GHz	12.4
Capacitance, pF/ft [pF/m]	32 [104.99]
Maximum Operating Voltage, Volts	1,900

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz	100
Attenuation, dB/100ft [dB/100m]	4.4 [14.44]

Frequency 2

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	14.7 [48.23]

Frequency 3

Frequency, GHz	5
Attenuation, dB/100ft [dB/100m]	36 [118.11]

Frequency 4

Frequency, GHz	11
Attenuation, dB/100ft [dB/100m]	57.9 [189.96]

Mechanical Specifications

Temperature

Operating Range, deg C	-55 to +200

Inner Conductor

Number of Strands	19
Material	Copper
Plating	Silver
Diameter, in [mm]	0.039 [0.99]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG400 Coax Cable Double Shielded with Tan FEP Jacket RG400/U

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TECHNICAL DATA SHEET   RG400/U

Dielectric:
Type   PTFE
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   FEP
Diameter, in [mm]   0.195 [4.95]
Color   Tan
One Time Minimum Bend Radius, in [mm]   1 [25.4]
Weight, lbs/ft [Kg/m]   0.046 [0.07]

Compliance Certifications (visit www.Pasternack.com for current document)
RoHS Compliant   Yes

Plotted and Other Data
Notes: Values at 25 °C, sea level

Flexible RG400 Coax Cable Double Shielded with Tan FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.
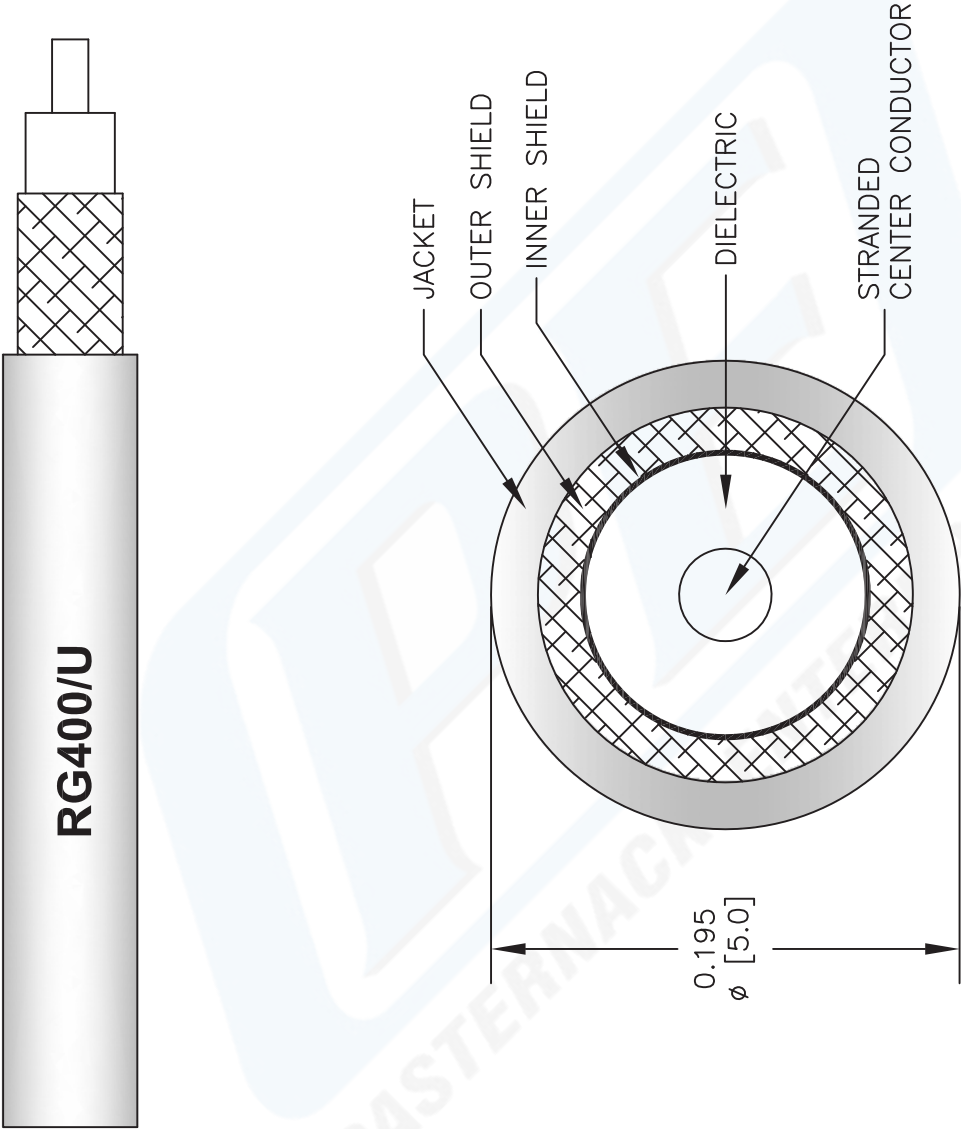
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG400 Coax Cable Double Shielded with Tan FEP Jacket RG400/U

URL: http://www.pasternack.com/flexible-0.195-rg400-stranded-center-conductor-50-ohm-coax-cable-fep-jacket-rg400-u-p.aspx

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RG400/U CAD Drawing

Flexible RG400 Coax Cable Double Shielded with Tan FEP Jacket

RG400/U

JACKET

OUTER SHIELD

INNER SHIELD

DIELECTRIC

STRANDED
CENTER CONDUCTOR

0.195
⌀ [5.0]

NOTES:
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3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE	CAD FILE	022908-A	SCALE N/A	SIZE A	2233
RG400/U					

FSCM NO. 53919

RG400/U REV

3