SHV jack crimp bulkheads, IP67 mated, for RG142,RG400

RF Connectors
Technical Data Sheet

PE45858

Configuration

- SHV Jack Connector
- MIL-STD-348B
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: RG142, RG400
- Bulkhead
- 7/16 Inch Hex

Features

- Max. Operating Frequency 300 MHz

- Gold over Nickel over copper Plated Brass Contact

Applications

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

Description

Pasternack's PE45858 SHV jack bulkhead connector with crimp/solder attachment for RG142 and RG400 is part of our full line of RF components available for same-day shipping. Our SHV jack connector operates up to a maximum frequency of 300 MHz. This SHV 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 SHV jack bulkhead connector PE45858 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)			3,500	Vrms
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Inner Conductor DC Resistance			2	mOhms
Outer Conductor DC Resistance			1.5	mOhms

Mechanical Specifications

Size

Length	1.94 in [49.28 mm]
Width/Dia.	0.68 in [17.27 mm]
Height	0.68 in [17.27 mm]
Weight	0.048 lbs [21.77 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SHV jack crimp bulkheads, IP67 mated, for RG142,RG400 PE45858

SHV jack crimp bulkheads, IP67 mated, for RG142,RG400

RF Connectors
Technical Data Sheet   PE45858

Material Specifications

Description	Material	Plating
Contact	Brass	Gold over Nickel over copper
Insulation	Teflon	
Body	Brass	Tinned Copper
Coupling Nut	Brass	Tinned Copper
Gasket	Silicon	
Crimp Sleeve	Brass	Tinned Copper
Washer	Brass	Tinned Copper BNC8105-6/W

Environmental Specifications
Temperature
Operating Range   -65 to +165 deg C
Thermal Shock   MIL-STD-202, Method 107, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

SHV jack crimp bulkheads, IP67 mated, for RG142,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.
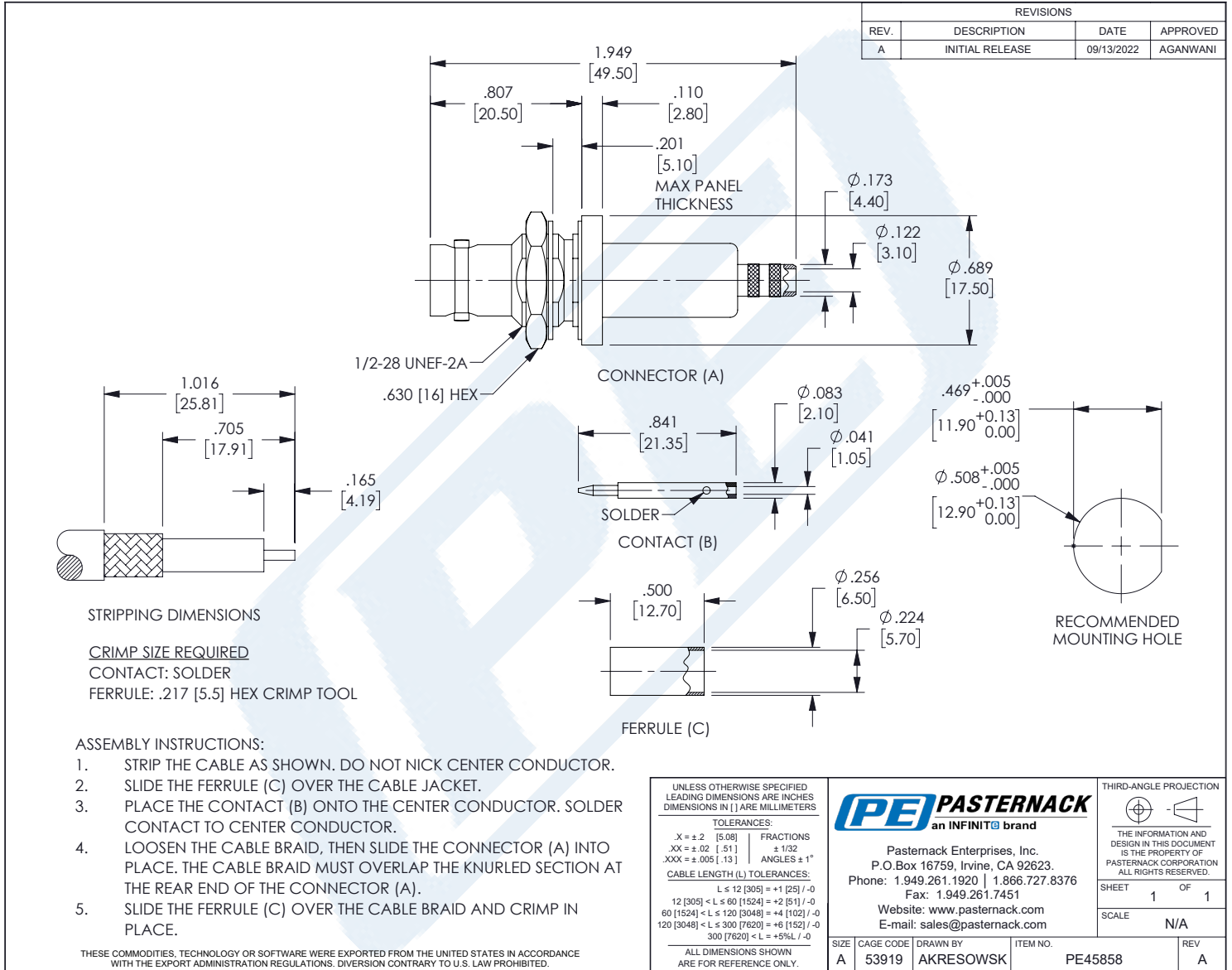
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SHV jack crimp bulkheads, IP67 mated, for RG142,RG400 PE45858

URL: https://www.pasternack.com/shv-jack-rg142-rg400-connector-pe45858-p.aspx

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PE45858 CAD Drawing
SHV jack crimp bulkheads, IP67 mated, for RG142,RG400

1.949 [49.50]

.807 [20.50]

.110 [2.80]

.201 [5.10] MAX PANEL THICKNESS

Ø.173 [4.40]

Ø.122 [3.10]

Ø.689 [17.50]

1/2-28 UNEF-2A

.630 [16] HEX

CONNECTOR (A)

1.016 [25.81]

.705 [17.91]

.165 [4.19]

STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED
CONTACT: SOLDER
FERRULE: .217 [5.5] HEX CRIMP TOOL

.841 [21.35]

Ø.083 [2.10]

Ø.041 [1.05]

SOLDER

CONTACT (B)

$.469^{+.005}_{-.000}$ $[11.90^{+0.13}_{0.00}]$

$Ø.508^{+.005}_{-.000}$ $[12.90^{+0.13}_{0.00}]$

RECOMMENDED MOUNTING HOLE

.500 [12.70]

Ø.256 [6.50]

Ø.224 [5.70]

FERRULE (C)

ASSEMBLY INSTRUCTIONS:
1. STRIP THE CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SLIDE THE FERRULE (C) OVER THE CABLE JACKET.
3. PLACE THE CONTACT (B) ONTO THE CENTER CONDUCTOR. SOLDER CONTACT TO CENTER CONDUCTOR.
4. LOOSEN THE CABLE BRAID, THEN SLIDE THE CONNECTOR (A) INTO PLACE. THE CABLE BRAID MUST OVERLAP THE KNURLED SECTION AT THE REAR END OF THE CONNECTOR (A).
5. SLIDE THE FERRULE (C) OVER THE CABLE BRAID AND CRIMP IN PLACE.

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

TOLERANCES:
.X = ± .2 [5.08]   FRACTIONS
.XX = ± .02 [.51]   ± 1/32
.XXX = ± .005 [.13]   ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PE PASTERNACK an INFINITE brand

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THIRD-ANGLE PROJECTION

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SHEET		OF	
	1		1

SCALE   N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.		REV
A	53919	AKRESOWSK	PE45858		A

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

RF Connectors
Technical Data Sheet

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 µinches minimum
Insulation	Teflon	
Body	Brass	Nickel 100 µinches minimum

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

Compliance Certifications (see product page for current document)
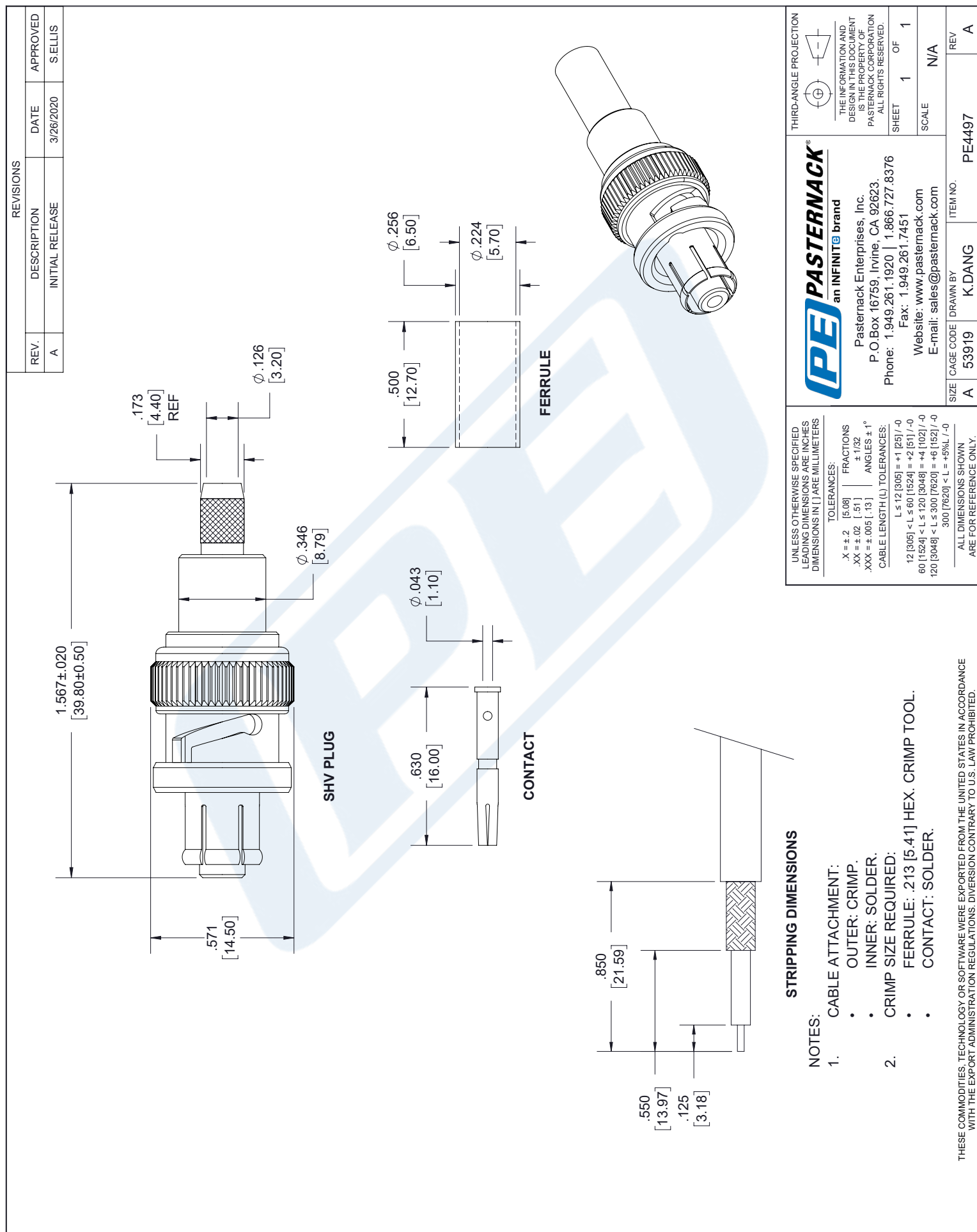
Plotted and Other Data
Notes:

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

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PE4497 CAD Drawing

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

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/26/2020	S.ELLIS

Ø .126 [3.20]

.173 [4.40] REF

Ø .346 [8.79]

1.567±.020 [39.80±0.50]

.571 [14.50]

SHV PLUG

Ø .256 [6.50]

Ø .224 [5.70]

.500 [12.70]

FERRULE

Ø .043 [1.10]

.630 [16.00]

CONTACT

.850 [21.59]

.550 [13.97]

.125 [3.18]

STRIPPING DIMENSIONS

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

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	PE4497

THIRD-ANGLE PROJECTION

SHEET 1 OF 1

SCALE N/A

REV A

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

TOLERANCES:
.X = ± .2 [5.08]
.XX = ± .02 [.51]
.XXX = ±.005 [.13]

FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

T-Rev.D

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

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.

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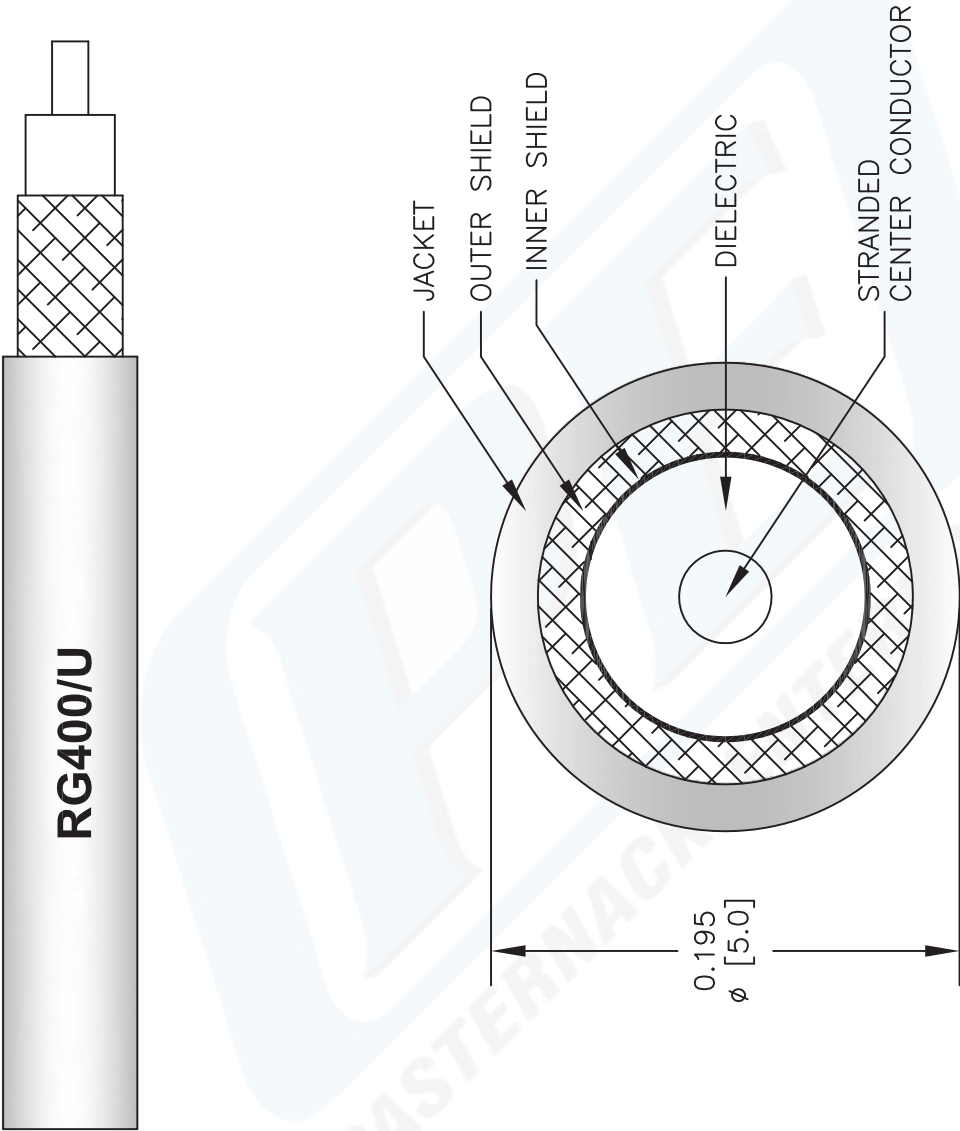
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG400 Coax Cable Double Shielded with Tan FEP Jacket RG400/U

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

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 ø [5.0]

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].

CAD FILE	022908-A
SCALE	N/A
SIZE	A
	2233

DWG TITLE

RG400/U

FSCM NO. 53919

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RG400/U REV   3