



SSMC Jack Right Angle Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE45499

Configuration

- SSMC Jack Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: RG178, RG196
- Bulkhead

Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.57:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Reliable threaded coupling
- Small SSMC connector form factor (50% smaller than SMA, radially)
- IEC 60169-20 SSMC connector interface
- In stock and ready to ship

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- Avionics
- A/D Modules
- Data Acquisition
- Software defined radio (SDR)
- RADAR/SONAR
- Ultra Wideband Digital Receivers
- Medical equipment

Description

Pasternack's PE45499 SSMC jack right angle bulkhead connector with crimp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our SSMC jack connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.57:1. Its right angle body geometry allows for easier connections in tight spaces. This SSMC 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 SSMC jack right angle bulkhead connector PE45499 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			1.57:1	
Insertion Loss			0.3	dB
Operating Voltage (AC)			250	Vrms
High Potential Voltage 5 MHz			400	Vrms
Inner Conductor DC Resistance			4	mOhms
Outer Conductor DC Resistance			1	mOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Jack Right Angle Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196 PE45499](#)



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Insulation Resistance	1,000	MOhms
RF Leakage	-50	dB

Mechanical Specifications

Size

Length	0.57 in [14.48 mm]
Width/Dia.	0.156 in [3.96 mm]
Height	0.33 in [8.38 mm]
Mating Cycles	500 Cycles
Mating Torque	1.75 to 2 in-lbs [0.20 to 0.23 Nm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Insulation	Teflon	
Outer Conductor	Beryllium Copper	Gold MIL-G-45204
Body	Brass	Gold MIL-G-45204
Crimp Sleeve	Brass	Gold MIL-G-45204
Washer	Phosphor Bronze	Gold MIL-G-45204

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
Shock	Method 213, Condition B, 75G @6ms @1/2 sine
Vibration	Method 204, Condition D (20G)
Salt Spray	Method 101, Condition B, 5% salt solution

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

Plotted and Other Data

Notes:

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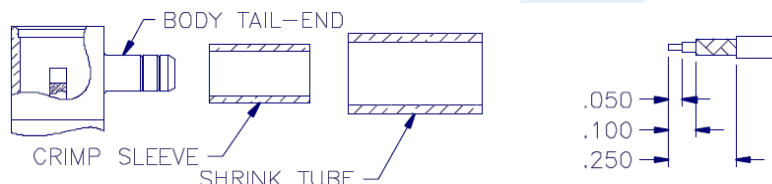
SSMC Jack Right Angle Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

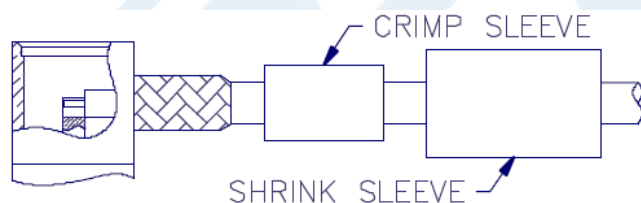
PE45499

Assembly Instruction

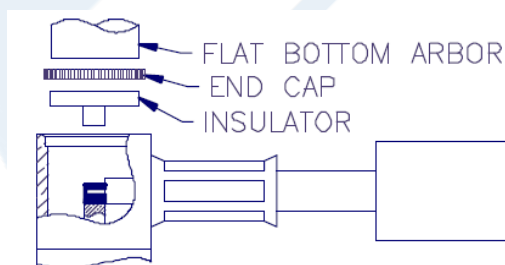
Assembly Instructions



1. TRIM CABLE AS SHOWN ABOVE. TIN END OF CENTER CONDUCTOR.
2. SLIDE CRIMP SLEEVE AND SHRINK TUBE **(IF SUPPLIED)** OVER CABLE JACKET.
3. FLARE CABLE BRAID OUT SLIGHTLY BY ROTATING DIELECTRIC.



4. INSERT CABLE ASSEMBLY INTO BODY TAIL-END MAKING SURE TAIL GOES OVER DIELECTRIC AND UNDER BRAID. SLIDE IN UNTIL BRAID TOUCHES REAR SURFACE OF BODY.
5. SLIDE CRIMP SLEEVE FORWARD AND USE .105 HEX DIE TO CRIMP SLEEVE TO BRAID.



6. SOLDER CENTER CONDUCTOR OF CABLE TO CONTACT.
7. PLACE INSULATOR AND END CAP INTO CONNECTOR BODY AS SHOWN AND USE A .185" DIAMETER FLAT BOTTOM PUNCH TO PRESS CAP IN PLACE. CAP MUST BE BELOW SURFACE TO SEAT PROPERLY.
8. SLIDE SHRINK TUBE (IF SUPPLIED) OVER CRIMP SLEEVE AND SHRINK TO FIT.

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SSMC Jack Right Angle Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE45499

SSMC Jack Right Angle Bulkhead Mount 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 99.4% availability and are part of the broadest selection in the industry.

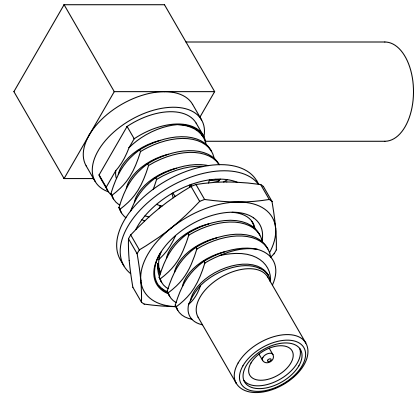
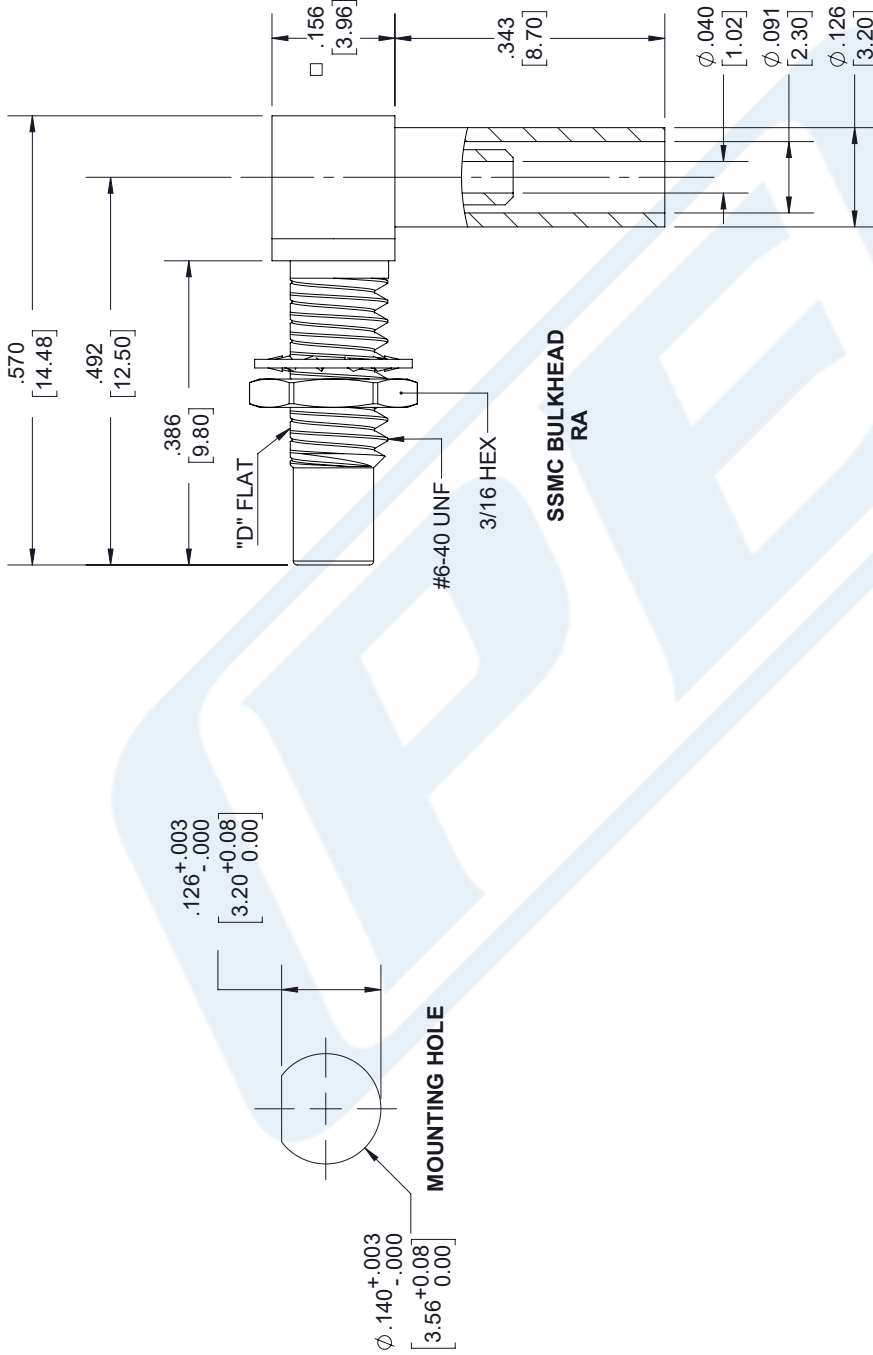
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Jack Right Angle Bulkhead Mount Connector Crimp/Solder Attachment for RG178, RG196 PE45499](https://www.pasternack.com/ssmc-jack-rg178-rg196-connector-pe45499-p.aspx)

URL: <https://www.pasternack.com/ssmc-jack-rg178-rg196-connector-pe45499-p.aspx>

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SSMC Jack Right Angle Bulkhead Mount Connector Crimp/ Solder Attachment for RG178, RG196

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE45499	4/8/2020	S.ELLIS



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

TOLERANCES:

.X = ± .2 [.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% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.



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SHEET 1 OF 1

SCALE N/A

REV	ITEM NO.	PE45499
A	53919	K.DANG
CAGE CODE DRAWN BY		PE45499

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SMC Jack Bulkhead Connector Crimp/Solder Attachment For RG178, RG196

TECHNICAL DATA SHEET

PE4365

SMC Jack Bulkhead Connector Crimp/Solder Attachment For RG178, RG196

Configuration

Connector	SMC Jack
Connector Specification	MIL-C-39012
Connector Interface Type	RG178, RG196
Cable Attachment Method (Shield/Contact)	Crimp/Solder
Body Style	Straight
Mount Method	Bulkhead

Electrical Specifications

Impedance, Ohms	50
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Mechanical Specifications

Temperature

Operating Range, deg C	-65 to +165
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Size

Length, in [mm]	1.21 [30.73]
Width/Dia., in [mm]	0.25 [6.35]
Weight, lbs [g]	0.006 [2.72]

Connector

Type	SMC Jack
Contact Material and Plating	Gold
Contact Plating Specification	MIL-G-45204
Body Material and Plating	Brass, Nickel
Dielectric Type	Teflon

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

Plotted and Other Data

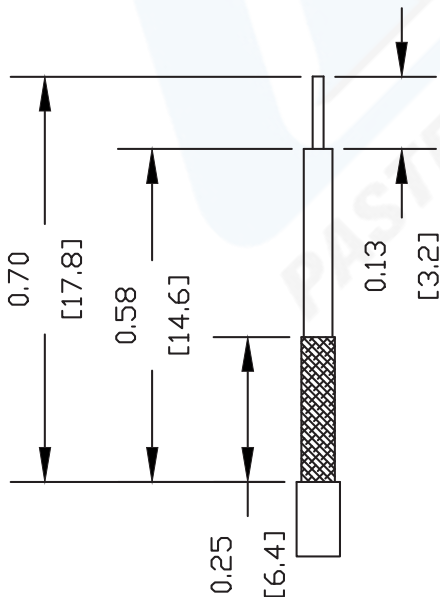
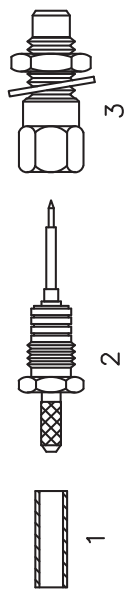
Notes:	Values at 25 °C, sea level
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SMC Jack Bulkhead Connector Crimp/Solder Attachment For RG178, RG196 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% 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: [SMC Jack Bulkhead Connector Crimp/Solder Attachment For RG178, RG196 PE4365](http://www.pasternack.com/smc-jack-standard-rg178-rg196-connector-pe4365-p.aspx)

URL: <http://www.pasternack.com/smc-jack-standard-rg178-rg196-connector-pe4365-p.aspx>

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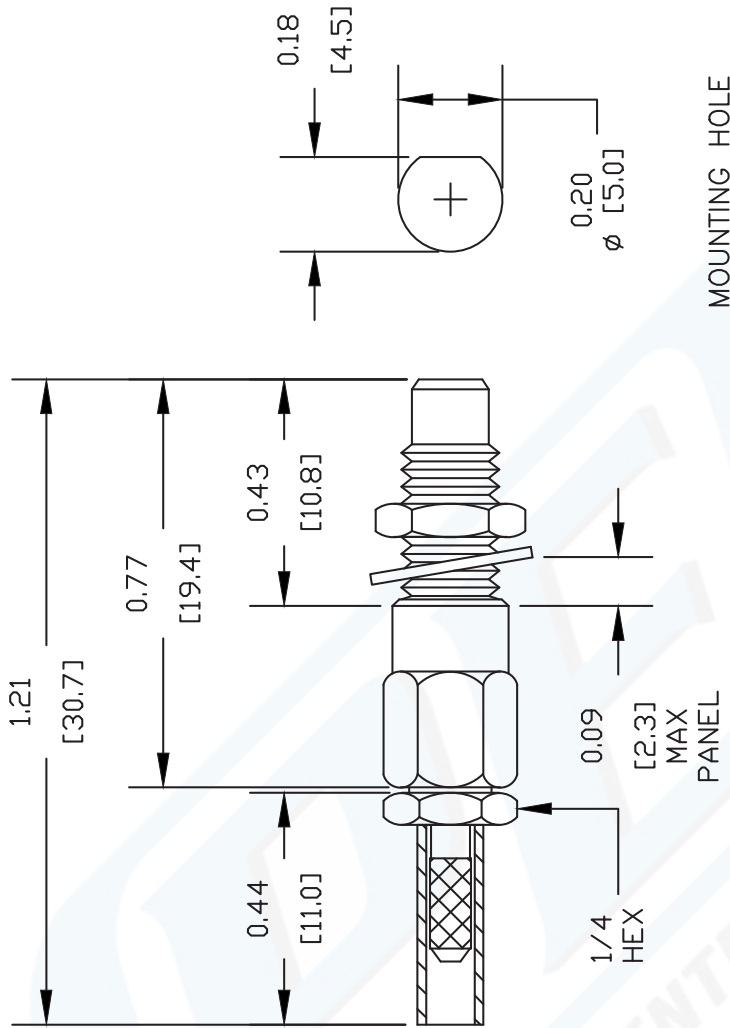
STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. SLIDE FERRULE (1) OVER CABLE. STRIP CABLE AS SHOWN.
2. FLAIR BRAID INSERT EXTENSION (2) OVER DIELECTRIC AND UNDER BRAID UNTIL IT STOPS. SLIDE FERRULE (1) OVER BRAID AND BUTT AGAINST EXTENSION (2).
3. SOLDER CENTER CONDUCTOR TO CONTACT (2). THRU HOLE IN CONTACT.
4. INSERT ASSEMBLY 1 & 2 INTO CONNECTOR BODY (3) AND TIGHTEN. CRIMP FERRULE (1) TO CABLE.

CRIMP SIZE REQUIRED

FERRULE: .128" HEX CRIMP TOOL



MOUNTING HOLE

DWG TITLE

PE4365

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.

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FSCM NO. 53919

CAD FILE 091008

SCALE N/A

SIZE A

127

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

RF Cables Technical Data Sheet

RG196A/U

Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			2,000	Vrms
Nominal Capacitance		32 [104.99]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	400					MHz
Attenuation, Typ	33					dB/100ft
	108.27					dB/100m

Mechanical Specifications

Diameter	0.08 in [2.03 mm]
Weight	0.005 lbs/ft [0.01 Kg/m]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.011 in [0.28 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.035 in [0.89 mm]
First Shield	Silver Plated Copper Braid 92.3% coverage	0.054 in [1.37 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket RG196A/U](#)

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

RF Cables Technical Data Sheet

RG196A/U

Jacket	PTFE, White	0.08 in [2.03 mm]
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Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

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

Plotted and Other Data

Notes:

Flexible RG196 Coax Cable Single Shielded with White PTFE 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.

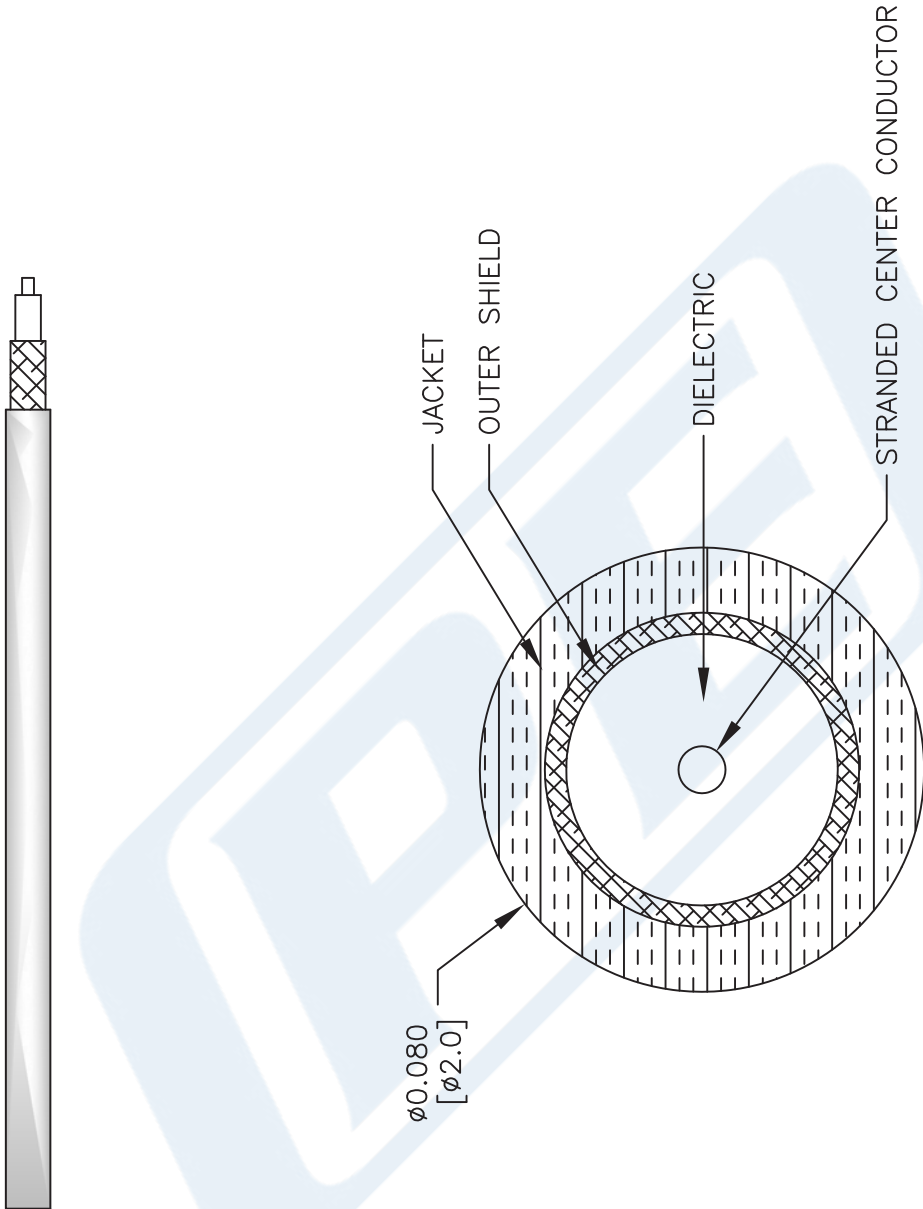
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket RG196A/U](#)

URL: <https://www.pasternack.com/flexible-0.080-rg196-50-ohm-coax-cable-ptfe-jacket-rg196a-u-p.aspx>

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RG196A/U CAD Drawing

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket



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	111716	SCALE	N/A
SIZE	A		41742

DWG TITLE RG196A/U	
FSCM NO.	53919


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