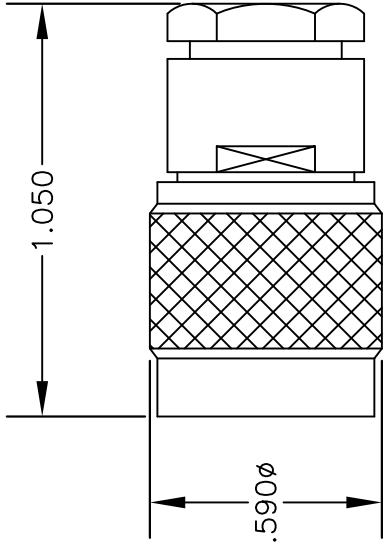
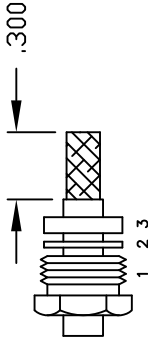


MATERIALS	
BODY	BRASS NICKEL PLATED
CONTACT	GOLD PLATED
INSULATOR	PTFE

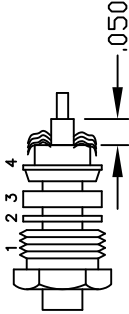


### ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1), WASHER (2) & GASKET (3) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF BRAID CLAMP (4). SLIDE BRAID CLAMP (4) OVER BRAID & SEAT AGAINST CABLE.



2. FORM BRAID OVER CLAMP NUT (4). TRIM BRAID BACK TO SHOULDER. CUT DIELECTRIC & CENTER CONDUCTOR TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR. SOLDER CONTACT TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.



NOTE: INSERT PTFE BEFORE CONTACT. SLIDE LARGE OPEN END FIRST OVER CENTER CONDUCTOR & DIELECTRIC.



DWG TITLE		DES.	TNC MALE, CLAMP ATTACHMENT FOR RG178 & RG196	
<b>PE4448</b>				
SIZE A	FSCM NO. 53919	CAD FILE	052605	SCALE N/A
				127

#### NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.



## MMBX Plug Snap-On Connector Crimp/Solder Attachment for RG178, RG196, With Male Center Contact

### RF Connectors Technical Data Sheet

PE45250

#### Configuration

- Snap-On MMBX Plug Connector
- 50 Ohms
- Straight Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment

#### Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.11:1
- Gold Plated Beryllium Copper Contact
- Reliable Snap-On connection method
- Small circuit footprint for high density applications
- Mechanical misalignment tolerance of 4.5°/0.7mm Max

#### Applications

- General Purpose Test
- Custom Cable Assemblies
- Low cost blind mate interconnect
- Multi circuit board radios
- Board to board applications requiring multiple coaxial connections

#### Description

Pasternack's PE45250 MMBX plug snap-on connector crimp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our MMBX plug connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.11:1.

Our MMBX plug connector PE45250 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 connector assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.11:1	
Insertion Loss			0.2	dB
Operating Voltage (DC)			165	Vdc
Dielectric Withstanding Voltage (DC)			500	Vdc
Insulation Resistance	1,000			MOhms

Electrical Specification Notes:  
MMBX Plug has a male center contact

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMBX Plug Snap-On Connector Crimp/Solder Attachment for RG178, RG196, With Male Center Contact PE45250](#)



MMBX Plug Snap-On Connector Crimp/Solder Attachment  
for RG178, RG196, With Male Center Contact

RF Connectors Technical Data Sheet

PE45250

**Mechanical Specifications**

**Size**

Length	0.56 in [14.22 mm]
Width/Dia.	0.185 in [4.70 mm]
Weight	0.00698 lbs [3.17 g]
Mating Cycles	100 Cycles

**Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Brass	Gold
Body	Brass	Gold

**Environmental Specifications**

**Temperature**

Operating Range	-55 to 155 deg C
-----------------	------------------

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMBX Plug Snap-On Connector Crimp/Solder Attachment for RG178, RG196, With Male Center Contact PE45250](#)



## MMBX Plug Snap-On Connector Crimp/Solder Attachment for RG178, RG196, With Male Center Contact

### RF Connectors Technical Data Sheet

PE45250

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

#### Plotted and Other Data

Notes:

MMBX Plug Snap-On Connector Crimp/Solder Attachment for RG178, RG196, With Male Center Contact 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.

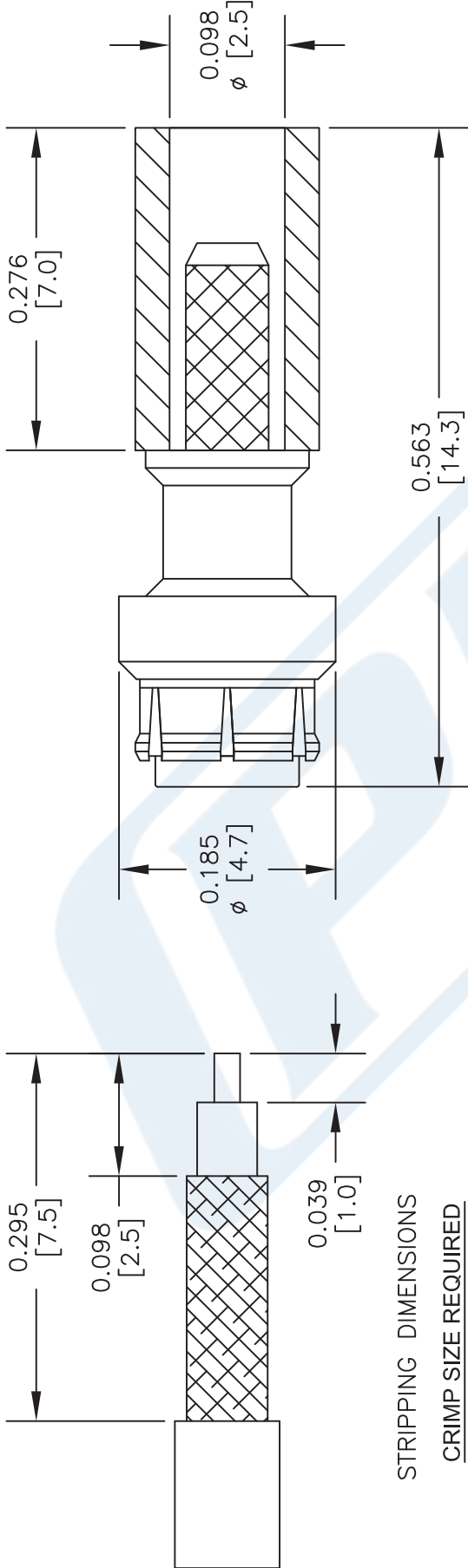
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMBX Plug Snap-On Connector Crimp/Solder Attachment for RG178, RG196, With Male Center Contact PE45250](#)

URL: <https://www.pasternack.com/mmbx-plug-snap-on-rg178-rg196-connector-pe45250-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.

# PE45250 CAD Drawing

MMBX Plug Snap-On Connector Crimp/Solder Attachment  
for RG178, RG196, With Male Center Contact



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER

FERRULE: .128" HEX CRIMP TOOL

STANDARD TOLERANCES	
.X	$\pm 0.2$
.XX	$\pm 0.1$
.XXX	$\pm 0.05$

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

**PE PASTERNAK**  
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Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE  
**PE45250**

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.

FSCM NO. 53919

CAD FILE 092816

SCALE N/A

SIZE A

2233

## 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](#)

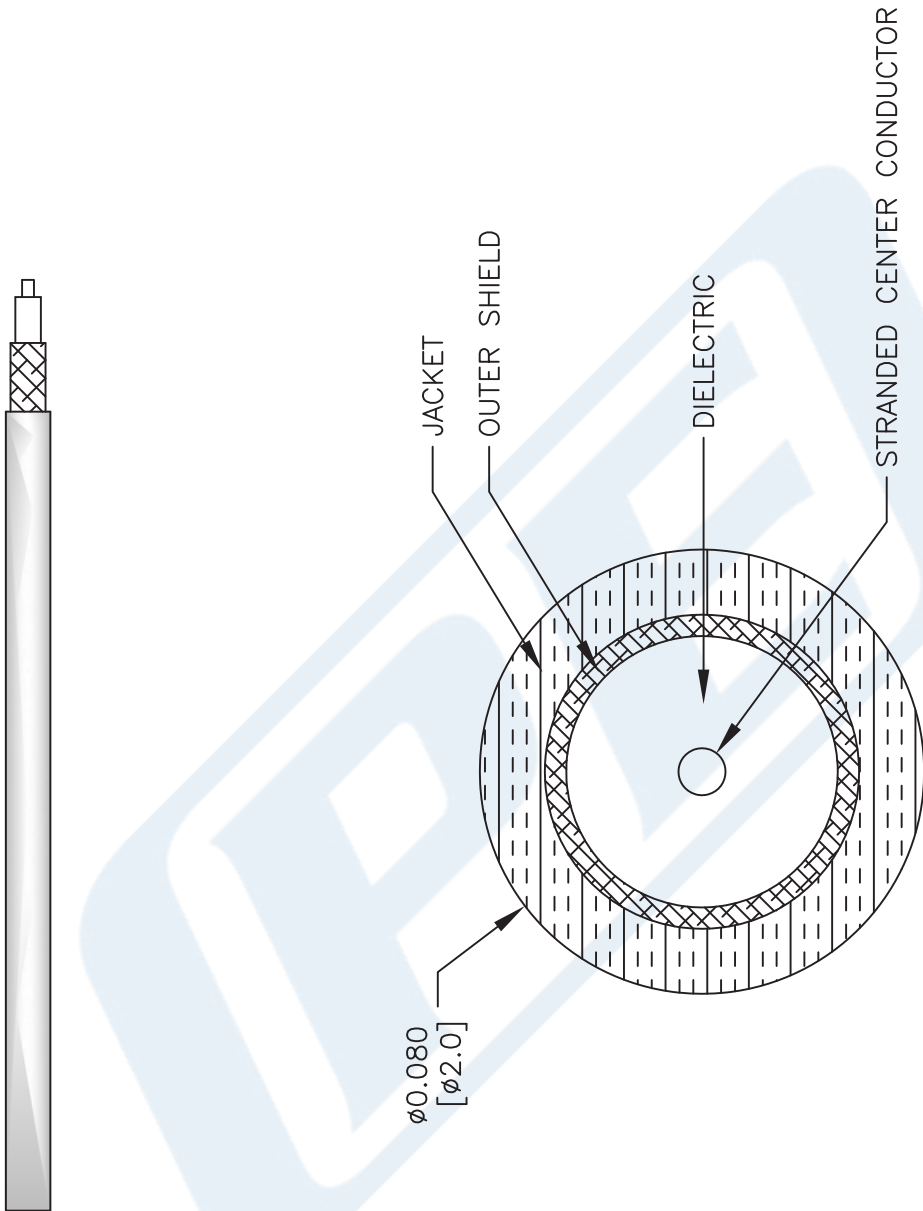
URL: <https://www.pasternack.com/flexible-0.080-rg196-50-ohm-coax-cable-ptfe-jacket-rg196a-u-p.aspx>

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.



# 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 <b>RG196A/U</b>		FSCM NO.	53919
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