

## MHV Female Connector Clamp/Solder Attachment for RG59B/U, RG62, RG71



### PE4181

#### Configuration

- MHV Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG59B/U, RG62, RG71

#### Features

- Max. Operating Frequency 300 MHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30  $\mu$ m minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4181, MHV, Standard, Connector is part of our full line of RF components available for same-day shipping. Our MHV female connector operates up to a maximum frequency of 300 MHz and offers good VSWR of 1.3:1.

Our MHV female connector PE4181 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
VSWR			1.3:1	
Operating Voltage (AC)			1,600	Vrms
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	1.5 in [38.1 mm]
Width	0.5 in [12.70 mm]
Height	0 in [0 mm]
Weight	0.044 lbs [19.96 g]

#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 $\mu$ m minimum
Insulation	PTFE	
Body	Brass	Nickel 100 $\mu$ m minimum

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#### Mechanical Specification Notes:

When attaching the connector to the cable use a clamp torque value of 26 to 30 in-lbs [2.94 to 3.39 Nm]

#### Environmental Specifications

##### Temperature

Operating Range -65 to +165 deg C

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

#### Plotted and Other Data

Notes:

MHV Female Connector Clamp/Solder Attachment for RG59B/U, RG62, RG71 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: [MHV Female Connector Clamp/Solder Attachment for RG59B/U, RG62, RG71 PE4181](#)

URL: <https://www.pasternack.com/mhv-female-rg59b-u-rg62-rg71-connector-pe4181-p.aspx>

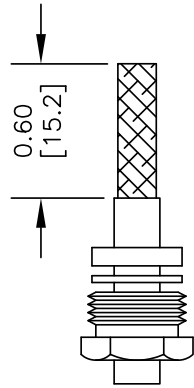
The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE4181 CAD Drawing

MHV Female Connector Clamp/Solder Attachment for RG59B/U, RG62, RG71

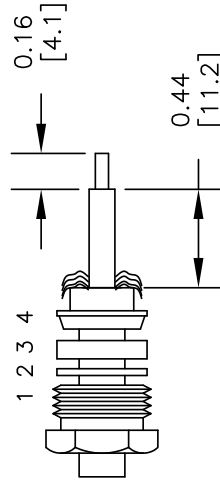
## ASSEMBLY PROCEDURES

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.



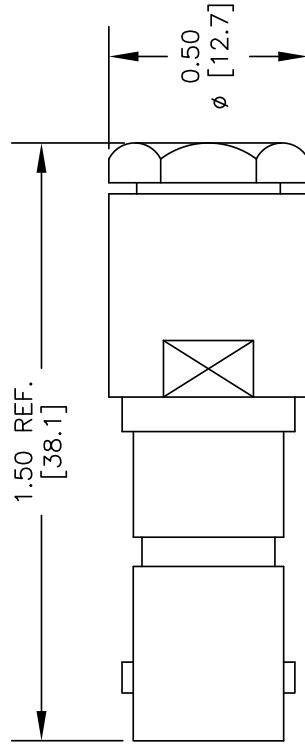
1 2 3

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.



1 2 3 4

NOTE: RG62 USES PTFE INSERT.  
INSERT PTFE BEFORE CONTACT.  
TAPER END FIRST.



DWG TITLE

**PE4181**

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.

CAD REV. A

FSCM NO. 53919

CAD FILE 091112

SCALE N/A

SIZE A

2233



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