



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

## RF Connectors Technical Data Sheet

PE45048

### Configuration

- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Right Angle Body Geometry

- RG58, RG55, RG141, RG142, RG223, RG303, RG400, LMR-195, PE-C195, PE-195 Interface Type
- Clamp/Solder Attachment
- 5/16 inch Hex

### Features

- Max. Operating Frequency 12.44 GHz
- Gold over Nickel Plated Brass Contact

- Contact plating according to MIL-G-45204

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE45048 SMA male right angle connector with clamp/solder attachment for RG58, RG55, RG141, RG142, RG223, RG303, RG400, LMR-195, PE-C195 and PE-195 is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 12.44 GHz. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE45048 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		12.44	GHz
Operating Voltage (DC)			335	Vdc
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

### Mechanical Specifications

#### Size

Length	0.74 in [18.8 mm]
Width/Dia.	0.312 in [7.92 mm]
Height	0.69 in [17.53 mm]
Weight	0.013 lbs [5.9 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG303, RG400, LMR-195, PE-C195, PE-195 PE45048](#)



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## RF Connectors Technical Data Sheet

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### Material Specifications

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

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 deg C

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

### Plotted and Other Data

Notes:

SMA Male Right Angle Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG303, RG400, LMR-195, PE-C195, PE-195 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.

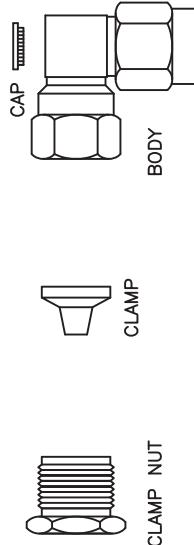
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG303, RG400, LMR-195, PE-C195, PE-195 PE45048](#)

URL: <https://www.pasternack.com/sma-male-rg58-rg55-rg141-rg142-rg223-rg303-rg400-connector-pe45048-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.

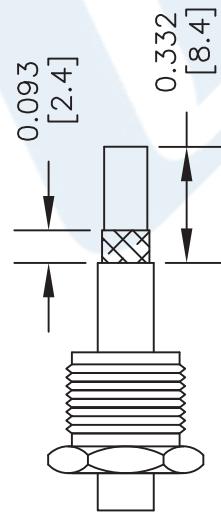
# PE45048 CAD Drawing

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

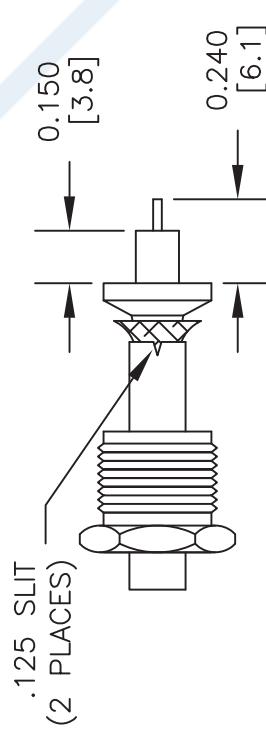


## ASSEMBLY PROCEDURES

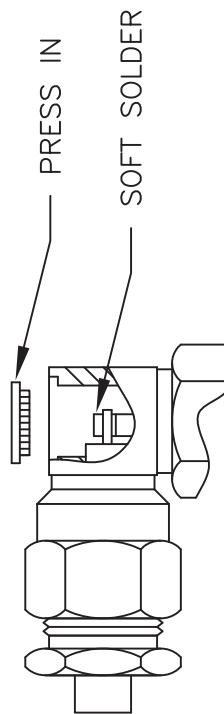
1. SLIDE NUT ONTO CABLE AS SHOWN. CUT CABLE SQUARE.



2. SLIDE CLAMP OVER DIELECTRIC AND UNDER BRAID UNTIL JACKET STOPS AGAINST SHOULDER. TWO SLITS IN THE JACKET 180° APART.



3. SLIDE ASSEMBLY INTO REAR OF BODY, WITH CENTER CONDUCTOR STARTING INTO SLOT OF CONTACT.



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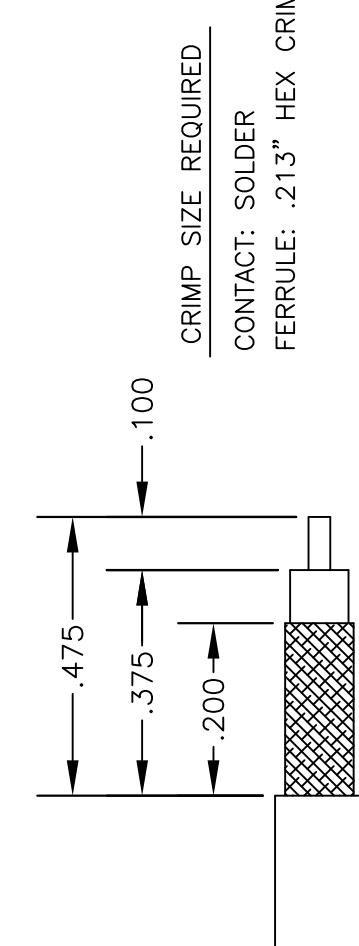
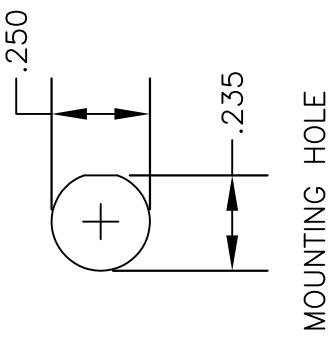
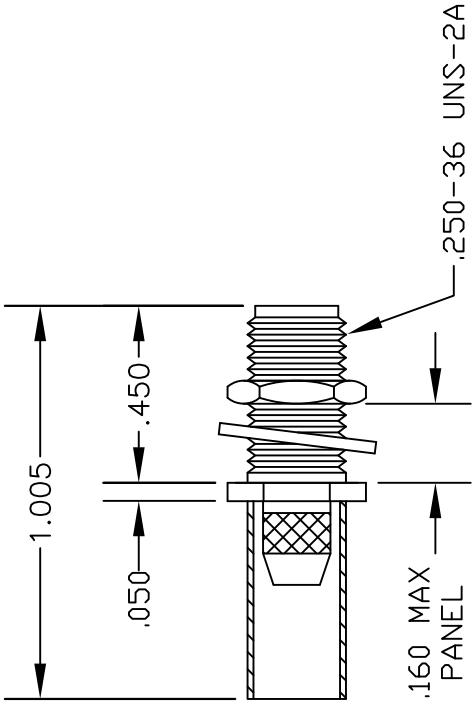
**PE45048**

DWG TITLE

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	062615	SCALE	N/A	SIZE	A	2233
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MATERIALS	
BODY	BRASS NICKEL PLATED
CONTACT	GOLD PLATED
INSULATOR	PTFE



SIZE A	FSCM NO. 53919	CAD FILE	051402	SCALE N/A	127
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STRIPPING DIMENSIONS

## Flexible RG141 Coax Cable Single Shielded with Beige PTFE (Fiberglass reinforced) Jacket

### RF Cables Technical Data Sheet

**RG141A/U**

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Impedance		50 ±2		Ohms
Velocity of Propagation		70		%
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Jacket Spark			2,000	Vrms
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.01	0.1	1	5	10	GHz
Attenuation, Typ	1.2	3.9	13	36	62	dB/100ft
	3.94	12.8	42.65	118.11	203.41	dB/100m

#### Mechanical Specifications

Diameter	0.19 in [4.83 mm]
Weight	0.033 lbs/ft [0.05 Kg/m]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.116 in [2.95 mm]
First Shield	Silver Plated Copper	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG141 Coax Cable Single Shielded with Beige PTFE \(FG\) Jacket RG141A/U](#)

## Flexible RG141 Coax Cable Single Shielded with Beige PTFE (Fiberglass reinforced) Jacket

### RF Cables Technical Data Sheet

**RG141A/U**

Jacket	PTFE (FG), Beige	0.19 in [4.83 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 RG141 Coax Cable Single Shielded with Beige PTFE (Fiberglass reinforced) 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.

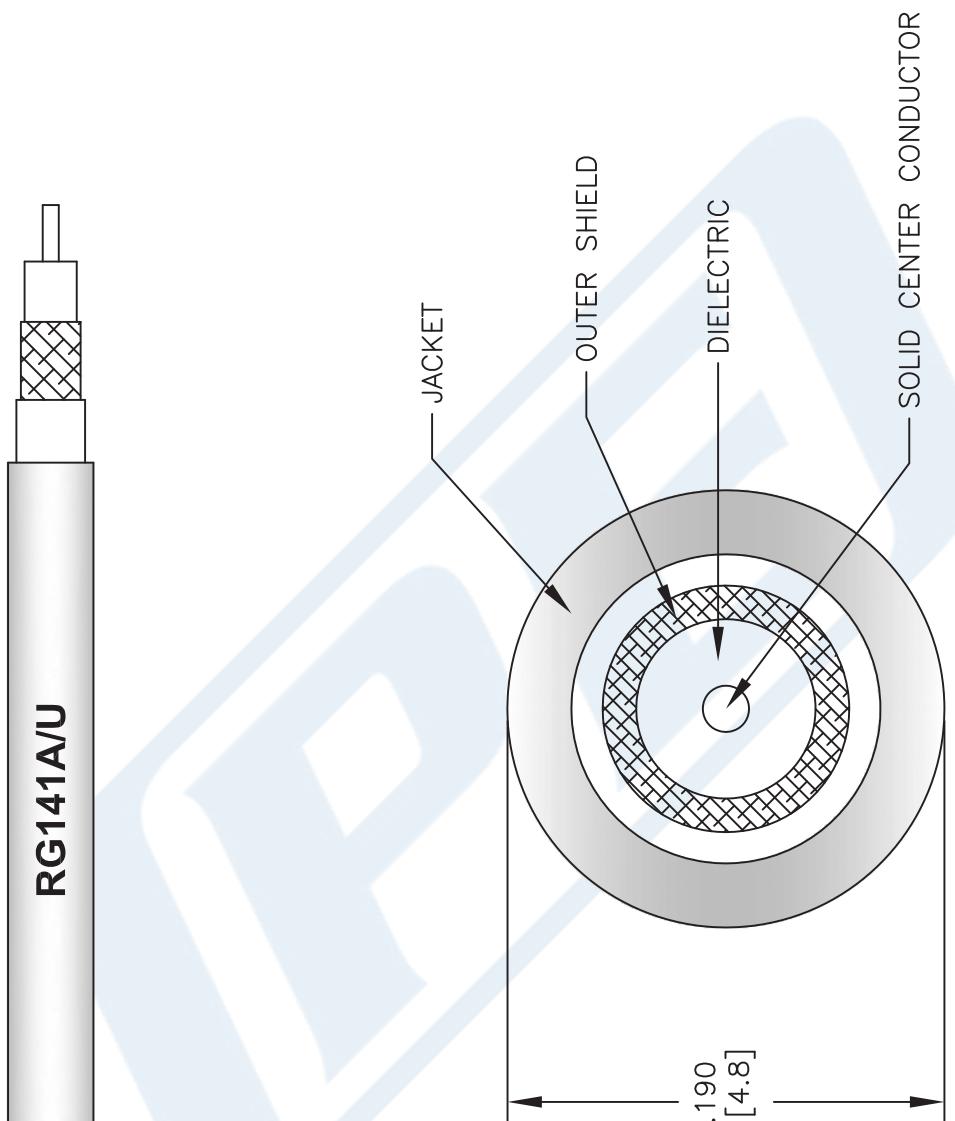
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG141 Coax Cable Single Shielded with Beige PTFE \(FG\) Jacket RG141A/U](#)

URL: <https://www.pasternack.com/flexible-0.190-rg141-50-ohm-coax-cable-ptfe-fr-jacket-rg141a-u-p.aspx>

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# RG141A/U CAD Drawing

Flexible RG141 Coax Cable Single Shielded with Beige  
PTFE (Fiberglass reinforced) Jacket



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3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE	
REV. A	RG141A/U

REV. A	FSCM NO.	CAD FILE	SCALE	SIZE	A
	53919	02808-A	N/A		147

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