



# SMA Male Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195

# RF Connectors Technical Data Sheet

PE4027

## Configuration

- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometr

- Connector Interface Types: RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195
- 5/16 inch Hex

## Features

- Max. Operating Frequency 12.4 GHz
- Gold Plated Brass Contact

- Contact plating according to MIL-G-45204

## Applications

- General Purpose Test
- Custom Cable Assemblies

## Description

Pasternack's PE4027 , SMA, Standard, Connector 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 12.4 GHz.

Our SMA male connector PE4027 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
Operating Voltage (AC)			335	Vrms
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

## Mechanical Specifications

## Size

Length	0.80 in [20.32 mm]
Width	0.31 in [7.92 mm]
Weight	0.01 lbs [5.44 g]
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4027](#)

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SMA Male Connector Clamp/Solder Attachment  
for RG55, RG58, RG141, RG142, RG223, RG303,  
RG400, PE-C195, PE-P195, LMR-195



## RF Connectors Technical Data Sheet

**PE4027**

### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 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 Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 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.

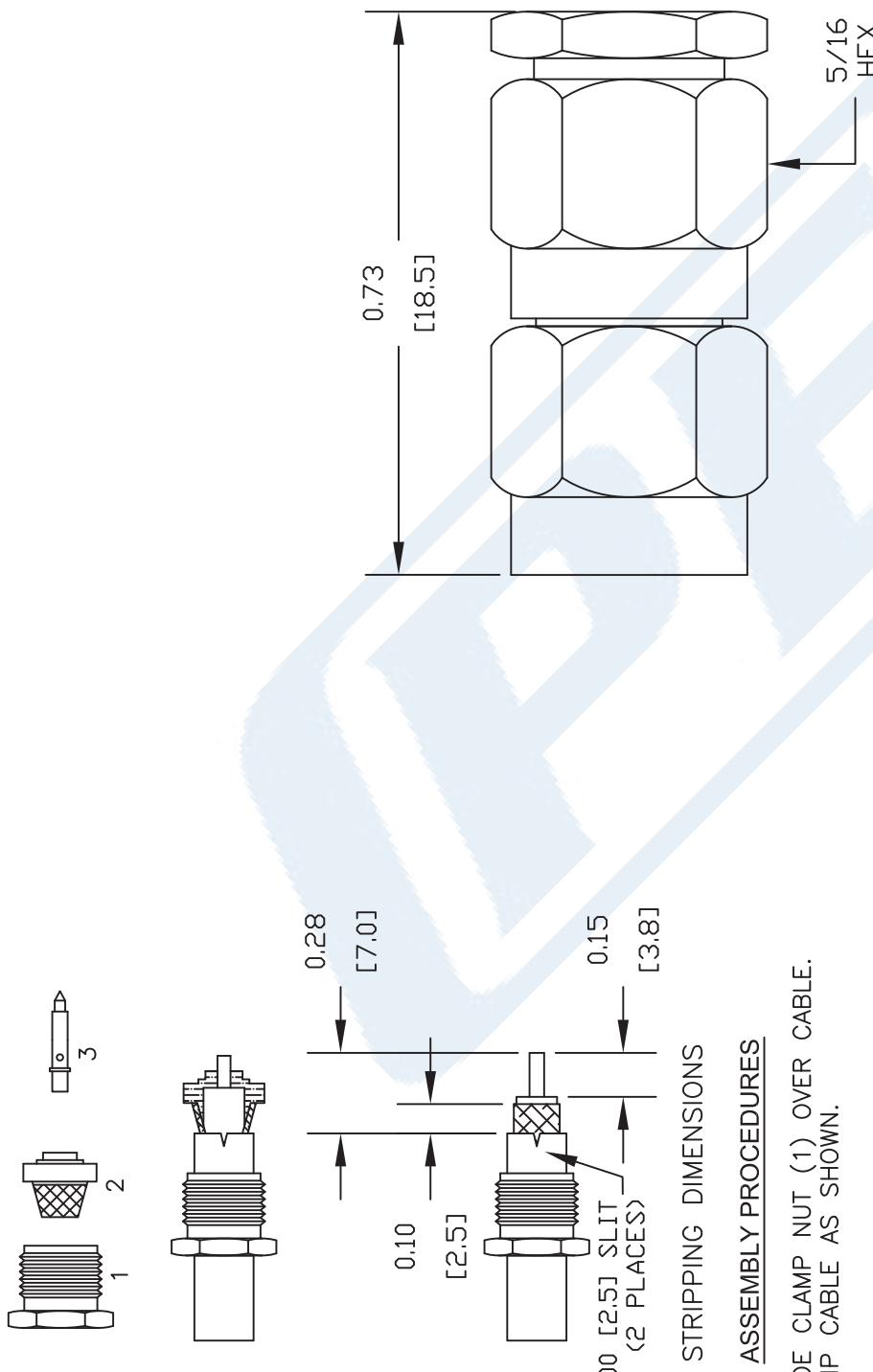
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4027](#)

URL: <https://www.pasternack.com/sma-male-standard-rg58-rg55-rg142-rg223-rg400-connector-pe4027-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.

# PE4027 CAD Drawing

SMA Male Connector Clamp/Solder Attachment for RG55, RG58, RG141,  
RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195



## STRIPPING DIMENSIONS ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1) OVER CABLE.  
STRIP CABLE AS SHOWN.
2. FLARE BRAID AND SLIDE CLAMP (2)  
OVER DIELECTRIC AND UNDER BRAID  
UNTIL THE CLAMP STOPS. TRIM  
EXCESS BRAID TO DIAMETER OF  
THE CLAMP (2).
3. SLIDE CONTACT OVER CENTER  
CONDUCTOR AND INTO CLAMP  
INSULATOR. SOLDER CONTACT ONTO  
CENTER CONDUCTOR.
4. INSERT ASSEMBLY INTO BODY AND  
TIGHTEN.

**PE PASTERNACK®**

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**PE4027**

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.

REV. -	FSCM NO.	53919	CAD FILE	030704	SCALE N/A	SIZE A	147
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TNC Female Connector Clamp/Solder Attachment  
for RG58, RG55, RG141, RG142, RG223, RG400,  
RG303, PE-C195, PE-P195, LMR-195



## RF Connectors Technical Data Sheet

PE4068

### Configuration

- TNC Female Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195

### Features

- Max. Operating Frequency 11 GHz
- Gold Plated Brass Contact

- 30  $\mu$  inches minimum contact plating

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4068 TNC female connector with clamp/solder attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195 and LMR-195 is part of our full line of RF components available for same-day shipping. Our TNC female connector operates up to a maximum frequency of 11 GHz.

Our TNC female connector PE4068 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		11	GHz
Operating Voltage (DC)			500	Vdc

### Mechanical Specifications

#### Size

- Length
- Width/Dia.
- Weight

- 1.091 in [27.71 mm]
- 0.57 in [14.48 mm]
- 0.043 lbs [19.5 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195 PE4068](#)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195 PE4068](#)

TNC Female Connector Clamp/Solder Attachment  
for RG58, RG55, RG141, RG142, RG223, RG400,  
RG303, PE-C195, PE-P195, LMR-195



## RF Connectors Technical Data Sheet

PE4068

### Material Specifications

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

### 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:

TNC Female Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195 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: [TNC Female Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195 PE4068](#)

URL: <https://www.pasternack.com/tnc-female-standard-rg58-rg55-rg141-rg142-rg223-rg400-connector-pe4068-p.aspx>

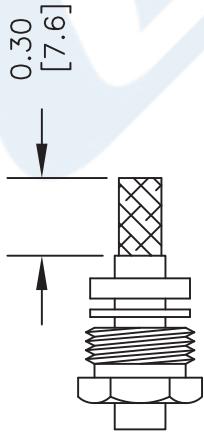
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# PE4068 CAD Drawing

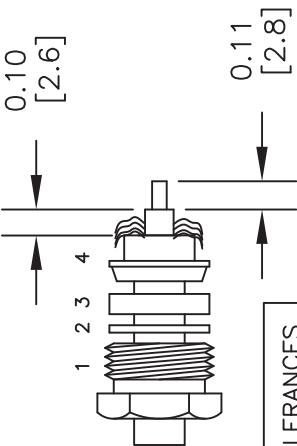
TNC Female Connector Clamp/Solder Attachment for RG58, RG55, RG141, RG142, RG223, RG400, RG303, PE-C195, PE-P195, LMR-195

## 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.



## STANDARD TOLERANCES

$\pm 0.2$   
 $\pm 0.1$   
 $\pm 0.05$

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE	PE4068
FSCM NO.	53919

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## Low Loss Flexible LMR-195-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE Jacket



### LMR-195-FR



### Times Microwave Systems Connector Specification

#### Configuration

- Low Loss, Fire Rated Flexible Cable
- 2 Shield(s)

#### Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 76% VoP

#### Applications

- Laboratory Applications
- General Purpose RF Interconnect

#### Description

LMR-195-FR part number from Pasternack is a LMR-195-FR coax cable that is flexible. Pasternack LMR-195-FR flexible coax cable is 50 Ohm and has a PE dielectric. Our LMR-195-FR coax is constructed with a 0.195 jacket made of FRPE. LMR-195-FR coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-195-FR coax cable has an attenuation at 1 GHz of 11.8 dB.

Pasternack LMR-195-FR coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-195-FR cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-195-FR or other coax can be built and shipped same day as well.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Time Delay		1.27 [4.17]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms
Inner Conductor DC Resistance			7.6	Ohms/1000ft
Outer Conductor DC Resistance			4.9	Ohms/1000ft
Nominal Capacitance	25.4 [83.33]			pF/ft [pF/m]
Nominal Inductance	0.064 [0.21]			uH/ft [uH/m]
Input Power (Peak)			2.5	kWatts

## Low Loss Flexible LMR-195-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE Jacket



### LMR-195-FR

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	2.5	4.4	5.4	7.8	11.1	dB/100ft
	8.2	14.44	17.72	25.59	36.42	
Input Power (CW), Max	680	390	320	220	160	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	14.5	16	16.9	19	29.9	dB/100ft
	47.57	52.49	55.45	62.34	98.1	
Input Power (CW), Max	120	110	100	90	60	Watts

#### Mechanical Specifications

Diameter	0.195 in [4.95 mm]
Weight	0.028 lbs/ft [0.04 kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Tensile Strength	40 lbs [18.14 kg]
Flat Plate Crush	15 lbs/in [0.27 kg/mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PE	0.11 in [2.79 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	FRPE, Black	0.195 in [4.95 mm]

#### Environmental Specifications

Temperature	
Operating Range	-40 to 85 deg C
Storage Range	-70 to 85 deg C

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

#### Plotted and Other Data

Notes:

## Low Loss Flexible LMR-195-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE Jacket



### LMR-195-FR

Low Loss Flexible LMR-195-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE 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: [Low Loss Flexible LMR-195-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE Jacket LMR-195-FR](#)

URL: <https://www.pasternack.com/50-ohm-flexible-lmr-195-fr-frpe-jacket-aluminum-tape-over-tinned-copper-braid-outer-conductor-double-shielded-black-lmr-195-fr-p.aspx>

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# LMR-195-FR CAD Drawing

Low Loss Flexible LMR-195-FR Fire Rated Rated Coax Cable Double Shielded with Black FRPE Jacket

