



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

## RF Connectors Technical Data Sheet

**PE4031**

### Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 Interface Type
- Clamp/Solder Attachment

### Features

- Gold Plated Contact
- Contact plating according to MIL-G-45204

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4031 SMA female connector with clamp/solder attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195 and LMR-195 is part of our full line of RF components available for same-day shipping.

Our SMA female connector PE4031 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.

### Mechanical Specifications

|             |                     |
|-------------|---------------------|
| <b>Size</b> |                     |
| Length      | 0.705 in [17.91 mm] |
| Width/Dia.  | 0.312 in [7.92 mm]  |
| Weight      | 0.009 lbs [4.08 g]  |

### Material Specifications

| Description | Material | Plating             |
|-------------|----------|---------------------|
| Contact     |          | Gold<br>MIL-G-45204 |
| Insulation  | PTFE     |                     |
| Body        | Brass    | Nickel<br>QQ-N-290  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)



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RG400, PE-C195, PE-P195, LMR-195

## RF Connectors Technical Data Sheet

**PE4031**

### Environmental Specifications

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

### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)

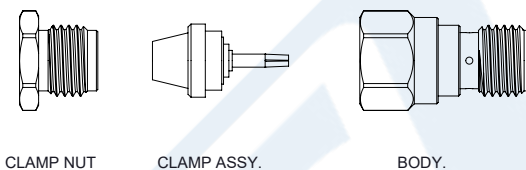
SMA Female Connector Clamp/Solder Attachment  
for RG55, RG58, RG141, RG142, RG223, RG303,  
RG400, PE-C195, PE-P195, LMR-195



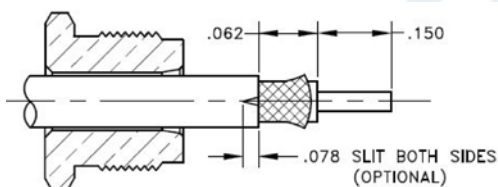
## RF Connectors Technical Data Sheet

**PE4031**

### Assembly Instruction

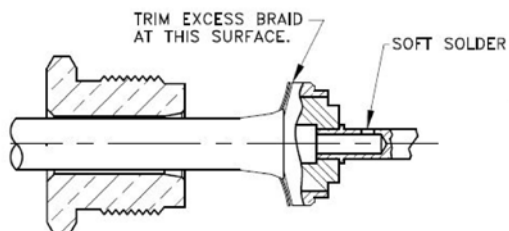


#### CABLE ASSEMBLY INSTRUCTIONS.

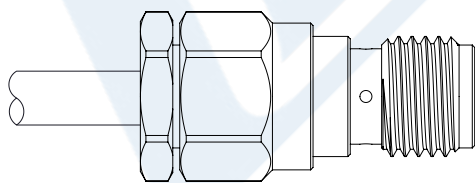


1. SLIDE NUT ONTO CABLE AS SHOWN. CUT CABLE SQUARE. TRIM CABLE TO DIMENSIONS SHOWN BEING CAREFUL NOT TO NICK THE BRAID OR CENTER CONDUCTOR. ROTATE DIELECTRIC TO FLARE BRAID.

NOTE: TWO SLITS IN THE JACKET 180° APART AS SHOWN MAY BE NEEDED TO PRESS JACKET TO SHOULDER.



2. SLIDE CLAMP ASSY OVER DIELECTRIC AND UNDER BRAID UNTIL THE DIELECTRIC BOTTOMS OUT IN CLAMP AND THE CENTER CONDUCTOR IS VISIBLE INSIDE HOLE OF CONTACT. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR. DO NOT OVERHEAT!.



3. INSERT THE ASSEMBLY INTO THE REAR BODY. HOLD THE NUT STATIONARY AND TIGHTEN THE BODY TO 15 IN LBS.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](#)



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

## RF Connectors Technical Data Sheet

**PE4031**

SMA Female 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.

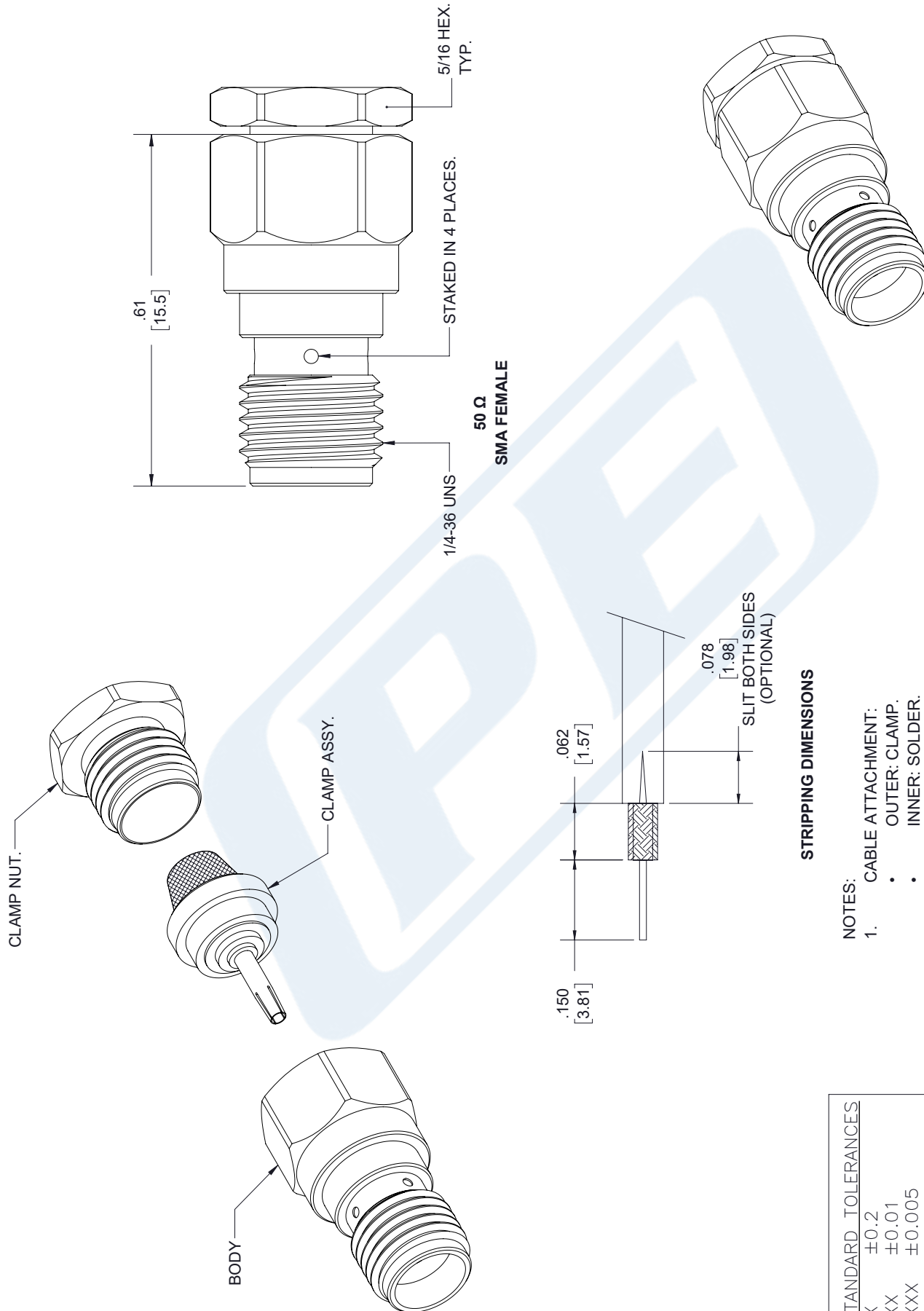
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment for RG55, RG58, RG141, RG142, RG223, RG303, RG400, PE-C195, PE-P195, LMR-195 PE4031](https://www.pasternack.com/sma-female-standard-rg58-rg55-rg142-rg223-rg400-connector-pe4031-p.aspx)

URL: <https://www.pasternack.com/sma-female-standard-rg58-rg55-rg142-rg223-rg400-connector-pe4031-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.

# PE4031 CAD Drawing

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



## STANDARD TOLERANCES

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

## NOTES:

1. CABLE ATTACHMENT:
  - OUTER: CLAMP.
  - INNER: SOLDER.

## STRIPPING DIMENSIONS



THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.

P.O. Box 16759 | Irvine | CA | 92623

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

PE4031

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].

CAGE CODE 53919

CAD FILE 12/13/18

SCALE N/A

SIZE A

7361



## N Male Connector Crimp/Non-Solder Contact Attachment for LMR-195, PE-C195, LMR-200, PE-C200

### RF Connectors Technical Data Sheet



**EZ-195-NMH-X**

#### Times Microwave Systems Connector Specification

##### Configuration

- N Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-195, PE-C195, LMR-200, PE-C200

##### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50 µin Thickness contact plating

##### Applications

- General Purpose Test
- Custom Cable Assemblies

##### Description

Pasternack's EZ-195-NMH-X type N, N, Standard, Connector is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Our type N male connector EZ-195-NMH-X 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      |         | 6       | GHz   |
| VSWR                                 |         |         | 1.3:1   |       |
| Insertion Loss                       |         |         | 0.25    | dB    |
| Impedance                            |         | 50      |         | Ohms  |
| Dielectric Withstanding Voltage (DC) |         |         | 1,000   | Vdc   |
| Insulation Resistance                | 5,000   |         |         | MOhms |

##### Mechanical Specifications

###### Size

|               |                    |
|---------------|--------------------|
| Length        | 1.27 in [32.26 mm] |
| Width         | 0.81 in [20.62 mm] |
| Height        | 0.81 in [20.62 mm] |
| Weight        | 0.08 lbs [35.83 g] |
| Mating Cycles | 500 Cycles         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Non-Solder Contact Attachment for LMR-195, PE-C195, LMR-200, PE-C200 EZ-195-NMH-X](#)



## N Male Connector Crimp/Non-Solder Contact Attachment for LMR-195, PE-C195, LMR-200, PE-C200

### RF Connectors Technical Data Sheet

**EZ-195-NMH-X**

#### Material Specifications

| Description     | Material         | Plating                       |
|-----------------|------------------|-------------------------------|
| Contact         | Beryllium Copper | Gold<br>50 µin Thickness      |
| Insulation      | PTFE             |                               |
| Outer Conductor | Brass            | Tri-Metal<br>80 µin Thickness |
| Body            | Brass            | Tri-Metal<br>80 µin Thickness |
| Coupling Nut    | Brass            | Tri-Metal<br>80 µin Thickness |

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +125 deg C

Shock

MIL-STD 202G, Meth. 213, Cond. I

Vibration

MIL-STD 202G, Meth. 204, Cond.B

Thermal Shock

MIL-STD 202G, Meth. 107, Cond.B

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

#### Plotted and Other Data

Notes:

N Male Connector Crimp/Non-Solder Contact Attachment for LMR-195, PE-C195, LMR-200, PE-C200 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.

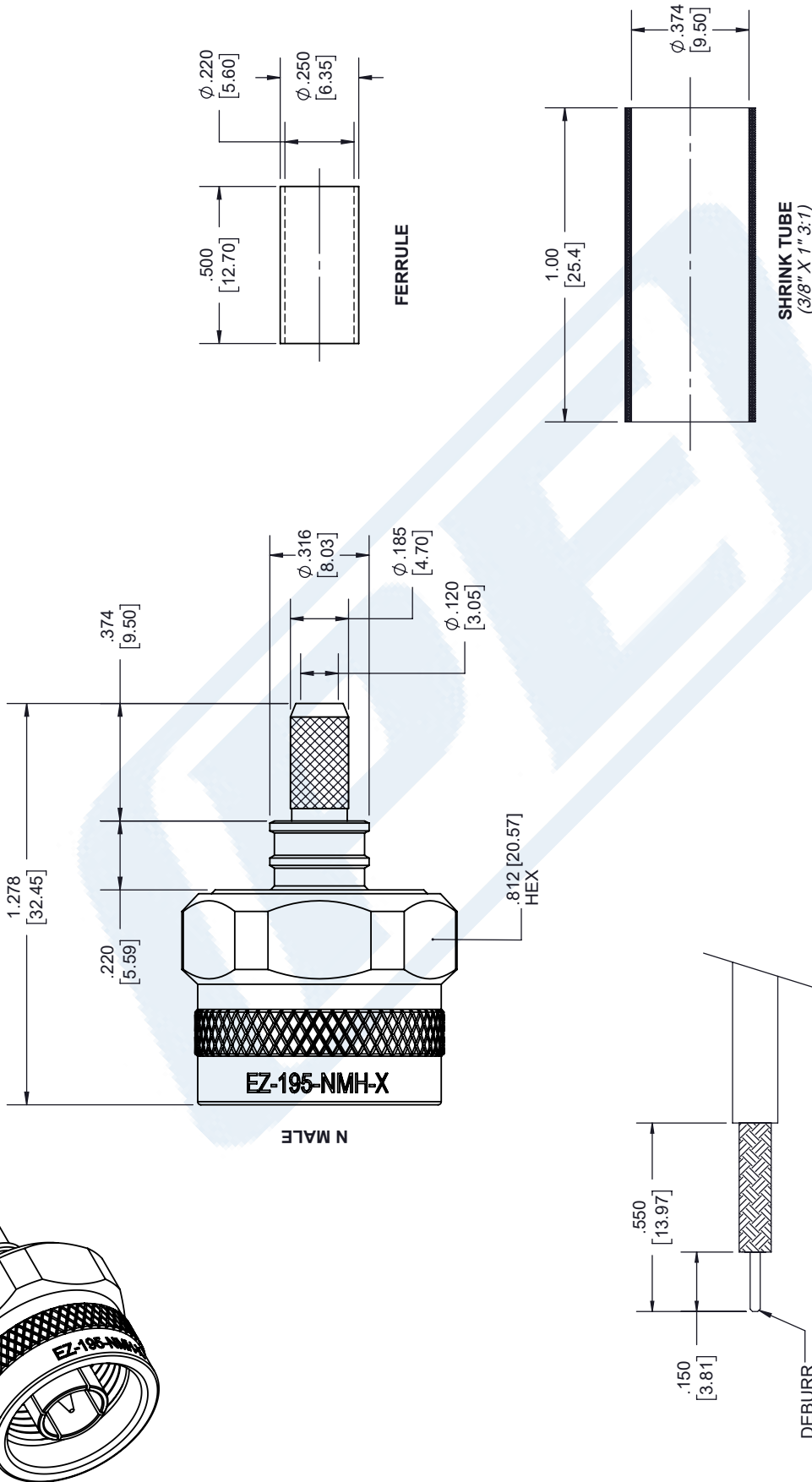
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Non-Solder Contact Attachment for LMR-195, PE-C195, LMR-200, PE-C200 EZ-195-NMH-X](#)

URL: <https://www.pasternack.com/n-male-lmr-195-pe-c195-connector-ez-195-nmh-x-p.aspx>

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**TIMES** MICROWAVE SYSTEMS **EZ-195-NMH-X CAD Drawing**  
N Male Connector Crimp/Non-Solder Contact Attachment  
for LMR-195, PE-C195, LMR-200, PE-C200

| REVISIONS |                 |           |            |
|-----------|-----------------|-----------|------------|
| REV.      | DESCRIPTION     | DATE      | APPROVED   |
| A         | INITIAL RELEASE | 6/16/2022 | A. GANWANI |



|                                                                                                                                                                                                                                                              |                 |                                                                                                                                                                              |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>P</b> <b>E</b> <b>PASTERNAK</b><br>an INFINITI brand<br>Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>Website: www.pasternack.com<br>E-mail: sales@pasternack.com |                 | <b>THIRD-ANGLE PROJECTION</b><br><br>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.<br>SHEET 1 OF 1<br>SCALE N/A |                       |
| SIZE A                                                                                                                                                                                                                                                       | CAGE CODE 53919 | DRAWN BY K.DANG                                                                                                                                                              | ITEM NO. EZ-195-NMH-X |
|                                                                                                                                                                                                                                                              |                 | REV A                                                                                                                                                                        |                       |

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

TOLERANCES:

X ± .2 [5.08] FRACTIONS  
XX ± .02 [1.51] ± .132  
XXX ± .005 [1.3] 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%L / -0

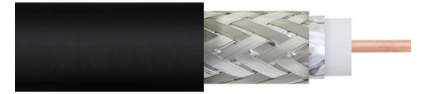
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

NOTES:

- CABLE ATTACHMENT:  
• OUTER: CRIMP.  
• INNER: SOLDER.
- CRIMP SIZE REQUIRED:  
• FERRULE: .213 [5.41] HEX. CRIMP TOOL.  
• CONTACT: SOLDER.

## Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-195



## Times Microwave Systems Connector Specification

### Configuration

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

### Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 80% VoP

### Applications

- Laboratory Applications
- General Purpose RF Interconnect

### Description

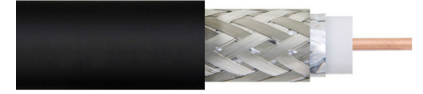
LMR-195 part number from Pasternack is a LMR-195 coax cable that is flexible. Pasternack LMR-195 flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-195 coax is constructed with a 0.195 jacket made of PE. LMR-195 coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency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

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

### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units        |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                      | DC      |              | 8       | GHz          |
| Cutoff Frequency                     |         | 41           |         | GHz          |
| Impedance                            |         | 50           |         | Ohms         |
| Velocity of Propagation              |         | 80           |         | %            |
| 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 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-195

#### 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 | dB/100m  |
| 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   | 8    | GHz      |
| Attenuation, Typ      | 14.5  | 16    | 16.9  | 19    | 29.9 | dB/100ft |
|                       | 47.57 | 52.49 | 55.45 | 62.34 | 98.1 | dB/100m  |
| Input Power (CW), Max | 120   | 110   | 100   | 90    | 60   | Watts    |

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.195 in [4.95 mm]       |
| Weight                          | 0.022 lbs/ft [0.03 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 (F)               | 0.11 in [2.79 mm]  |
| First Shield    | Aluminum Tape        |                    |
| Second Shield   | Tinned Copper Braid  |                    |
| Jacket          | PE, Black            | 0.195 in [4.95 mm] |

#### Environmental Specifications

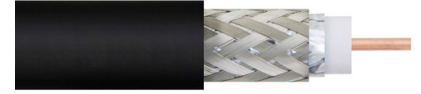
|                    |                  |
|--------------------|------------------|
| <b>Temperature</b> |                  |
| Operating Range    | -40 to +85 deg C |
| Storage Range      | -70 to +85 deg C |

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

#### Plotted and Other Data

Notes:

## Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-195

Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE 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 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket LMR-195](https://www.pasternack.com/50-ohm-low-loss-flexible-lmr195-pe-jacket-double-shielded-black-lmr-195-p.aspx)

URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr195-pe-jacket-double-shielded-black-lmr-195-p.aspx>

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## Low Loss Flexible LMR-195 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket

