PASTERNACK®
THE ENGINEER'S RF SOURCE




# D-Sub Plug Contact Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch



## Configuration

- D-Sub Plug Connector
- 50 Ohms
- Straight Body Geometry
- PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch Interface Type
- Crimp/Solder Attachment

## Features

- Gold Plated Contact

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4808 D-Sub plug contact crimp/solder attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195 and 0.195 inch is part of our full line of RF components available for same-day shipping.

Our D-Sub plug connector PE4808 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

**Size**

| | |
|---|---|
| Length | 1.035 in [26.29 mm] |
| Width/Dia. | 0.235 in [5.97 mm] |
| Weight | 0.006 lbs [2.72 g] |

**Material Specifications**

| Description | Material | Plating |
|---|---|---|
| Contact | | Gold |
| Insulation | PTFE | |
| Body | Brass | Gold |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: D-Sub Plug Contact Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE4808

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**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

Notes:

D-Sub Plug Contact Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch 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.

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URL: https://www.pasternack.com/d-sub-plug-standard-rg58-rg141-rg303-connector-pe4808-p.aspx

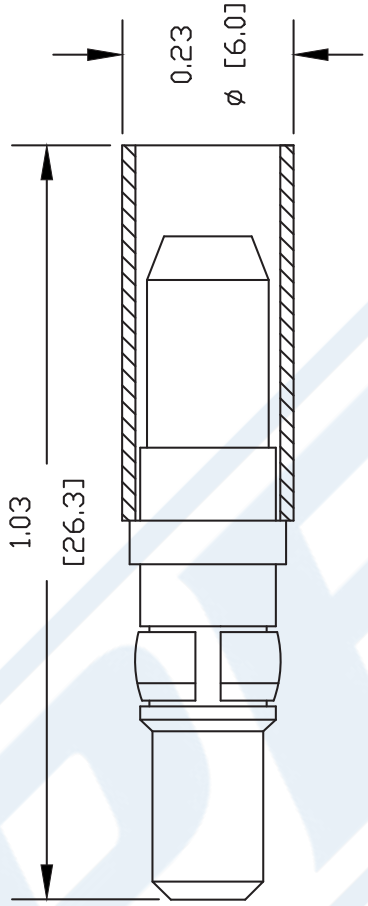
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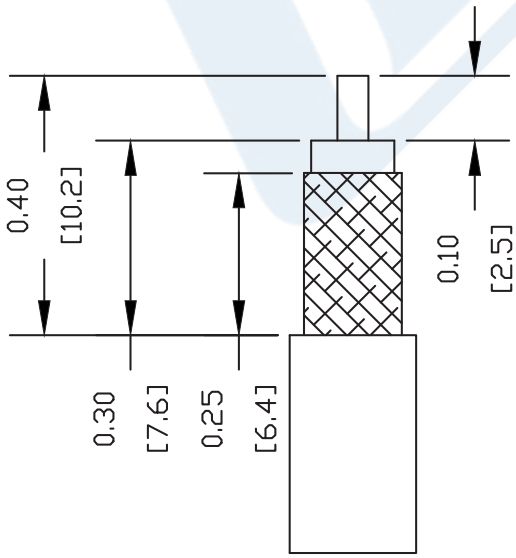
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# PE4808 CAD Drawing

D-Sub Plug Contact Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch




STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. SLIDE FERRULE ONTO CABLE STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR.
2. INSERT DIELECTRIC AND CENTER CONDUCTOR INTO BODY. SOLDER CENTER CONDUCTOR THROUGH HOLE IN BODY. REMOVE EXCESS SOLDER. SLIDE FERRULE FORWARD & CRIMP.

CRIMP SIZE REQUIRED

FERRULE: .213" HEX CRIMP TOOL

NOTES:
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4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE **PE4808**

| REV. - | FSCM NO. 53919 | CAD FILE 061002 | SCALE N/A | SIZE A | 127 |
|---|---|---|---|---|---|

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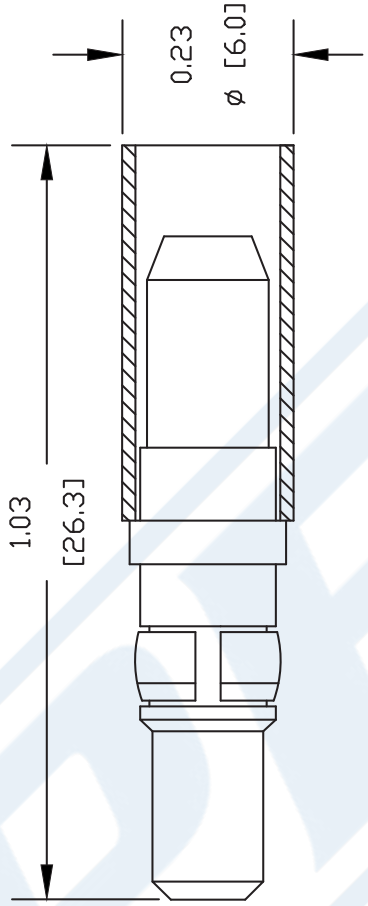
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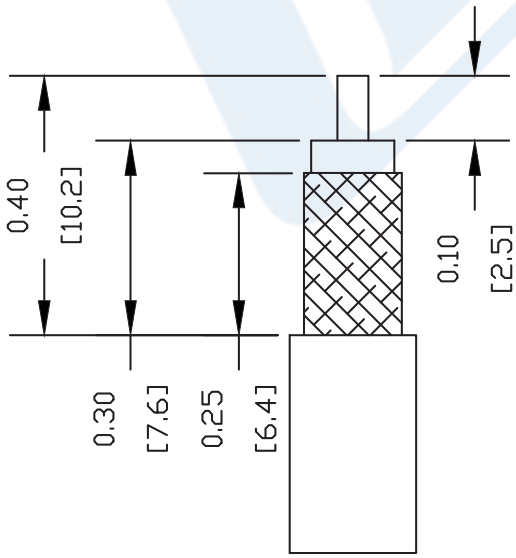
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# LMR-195-UF Ultra Flex  version of the 195 series Low Loss Coax

RF Cables
Technical Data Sheet

TIMES MICROWAVE SYSTEMS

LMR-195-UF

## Times Microwave Systems Coax Cable Specification

## Configuration

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

## Features

- Ultra Flexible Coax with Stranded Center Conductor
- Max Operating Frequency of 5.8 GHz
- Phase Velocity 74% VoP
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 0.5 inches

## Applications

- RF Test Systems
- Antenna Installs
- Laboratory Applications
- General Purpose RF Interconnect
- Jumper Assemblies

### Description

LMR-195-UF Ultra Flex  version of the 195 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-195-UF coax cable is manufactured in an ultra flexible design and has a 50 Ohm impedance. This low loss and ultra flexible 50 Ohm coax cable LMR-195-UF is constructed with a 0.195 inch diameter and Black TPE jacket.

LMR-195-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.195 inch diameter and low loss ultra flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-195-UF TPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-195-UF coax cable provides specs for this wire on its RF coax cable LMR-195-UF datasheet.

LMR-195-UF cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-195-UF coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

* LMR™ is a trademark of Times Microwave Systems.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 5.8 | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 74 | | % |
| Time Delay | | 1.27 4.17 | | ns/ft ns/m |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 1,000 | Vdc |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: LMR-195-UF Ultra Flex  version of the 195 series Low Loss Coax LMR-195-UF

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# LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax

## RF Cables
## Technical Data Sheet

TIMES MICROWAVE SYSTEMS

LMR-195-UF

| | | | |
|---|---|---|---|
| Jacket Spark | | 3,000 | Vrms |
| Inner Conductor DC Resistance | | 9.5 | 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 |

### Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 50 | 150 | 220 | 450 | 900 | MHz |
| Attenuation, Typ | 3 | 5.3 | 6.4 | 9.3 | 13.2 | dB/100ft |
| | 9.84 | 17.39 | 21 | 30.51 | 43.31 | dB/100m |
| Input Power (CW), Max | 610 | 350 | 280 | 200 | 140 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|---|---|---|---|---|---|---|
| Frequency | 1.5 | 1.8 | 2 | 2.5 | 5.8 | GHz |
| Attenuation, Typ | 17.3 | 19 | 20.1 | 22.6 | 35.6 | dB/100ft |
| | 56.76 | 62.34 | 65.94 | 74.15 | 116.8 | dB/100m |
| Input Power (CW), Max | 100 | 90 | 90 | 80 | 50 | Watts |

### Mechanical Specifications

| | |
|---|---|
| Diameter | 0.195 in 4.95 mm |
| Weight | 0.021 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 | 0.1 lbs-ft [0.14 N-m] |
| Tensile Strength | 40 lbs [18.14 kg |
| Flat Plate Crush | 10 lbs/in [0.18 Kg/mm] |

### Construction Specifications

| Description | Material and Plating | Diameter |
|---|---|---|
| Inner Conductor | Copper, 1 Strand | 0.038 in [0.97 mm] |

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax LMR-195-UF

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# LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax



| | | |
|---|---|---|
| Conductor Type | Stranded | |
| Dielectric | Foam PE | 0.11 in [2.79 mm] |
| First Shield | Aluminum Tape | [ ] |
| Second Shield | Tinned Copper | [ ] |
| Jacket | TPE, Black | 0.195 in [4.95 mm] |

## Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -40 to +85 deg C |
| Installation 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:

LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax 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.

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URL: https://www.pasternack.com/low-loss-flexible-lmr-195-uf-tpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-195-uf-p.aspx

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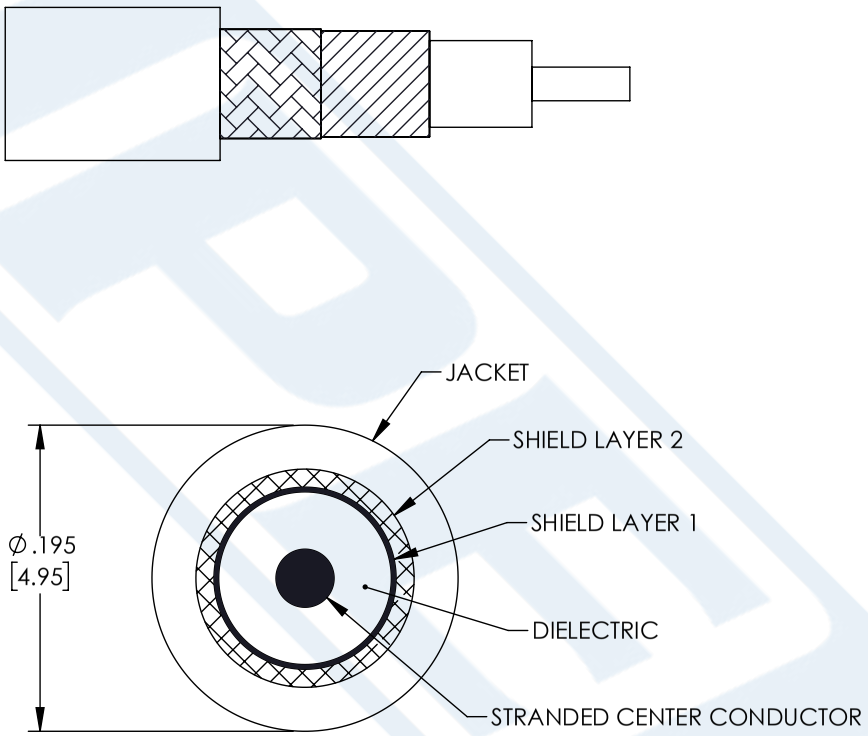
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# LMR-195-UF CAD Drawing

LMR-195-UF Ultra Flex version of the 195 series Low Loss Coax

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 06-04-2021 | SELLIS |




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

TOLERANCES:

| | |
|---|---|
| .X = ± .2 [5.08] | FRACTIONS |
| .XX = ± .02 [ .51 ] | ± 1/32 |
| .XXX = ± .005 [ .13 ] | 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.

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | MVEERAPPAN | LMR-195-UF | A |

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