



MHV Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch

## RF Connectors Technical Data Sheet

PE4093

### Configuration

- MHV Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch Interface Type
- Crimp/Solder Attachment

### Features

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

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4093 MHV male connector with crimp/solder attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195 and 0.195 inch is part of our full line of RF components available for same-day shipping. Our MHV male connector operates up to a maximum frequency of 300 MHz and offers good VSWR of 1.3:1.

Our MHV male connector PE4093 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) |         |         | 1,400   | Vrms  |

### Mechanical Specifications

| Size       |                     |
|------------|---------------------|
| Length     | 1.508 in [38.3 mm]  |
| Width/Dia. | 0.57 in [14.48 mm]  |
| Weight     | 0.038 lbs [17.24 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MHV Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch PE4093](#)



MHV Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch

## RF Connectors Technical Data Sheet

PE4093

### Material Specifications

| Description  | Material | Plating                        |
|--------------|----------|--------------------------------|
| Contact      | Brass    | Gold<br>30 $\mu$ in minimum    |
| Insulation   | PTFE     |                                |
| Body         | Brass    | Nickel<br>100 $\mu$ in minimum |
| Coupling Nut | Brass    | Nickel<br>100 $\mu$ in minimum |
| Crimp Sleeve | Brass    | Nickel                         |

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 deg C

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

### Plotted and Other Data

Notes:

MHV Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, 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.

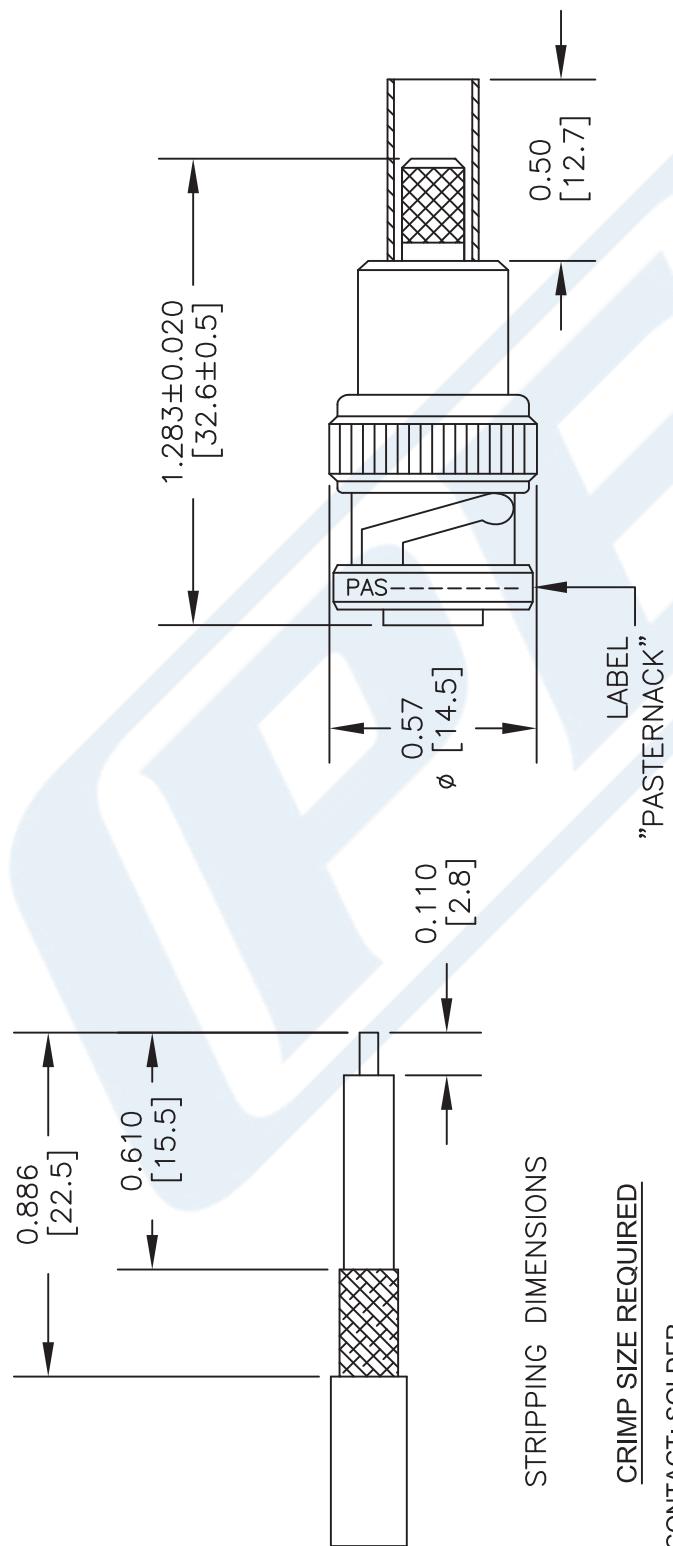
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MHV Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch PE4093](#)

URL: <https://www.pasternack.com/mhv-male-rg58-rg303-rg141-pe-c195-pe-p195-lmr-195-connector-pe4093-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.

# PE4093 CAD Drawing

MHV Male Connector Crimp/Solder Attachment for RG58, RG303,  
RG141, PE-C195, PE-P195, LMR-195, 0.195 inch



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].

| DWG TITLE                               | PE4093         | CAD FILE | 040116 | SCALE | N/A | SIZE | A    |
|---|----------------|----------|--------|-------|-----|------|------|
| PASTERNACK®<br>THE ENGINEER'S RF SOURCE | FSCM NO. 53919 |          |        |       |     |      | 3045 |

**PASTERNACK®**  
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)



## Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

### RF Connectors Technical Data Sheet

PE4301

#### Configuration

- Double Banana Plug Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

#### Features

- Nickel Plated Brass Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4301 Double Banana plug connector with crimp/solder attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195 and .195 inch is part of our full line of RF components available for same-day shipping.

Our Double Banana plug connector PE4301 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  
Width/Dia.

2.5 in [63.5 mm]

1.175 in [29.85 mm]

Weight

0.0447 lbs [20.28 g]

#### Material Specifications

| Description | Material | Plating |
|-------------|----------|---------|
| Contact     | Brass    | Nickel  |
| Insulation  | ABS      |         |
| Body        | Brass    | Nickel  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch PE4301](#)



## Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

### RF Connectors Technical Data Sheet

PE4301

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch 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: [Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch PE4301](#)

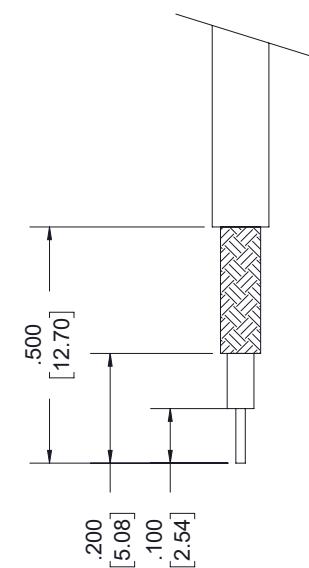
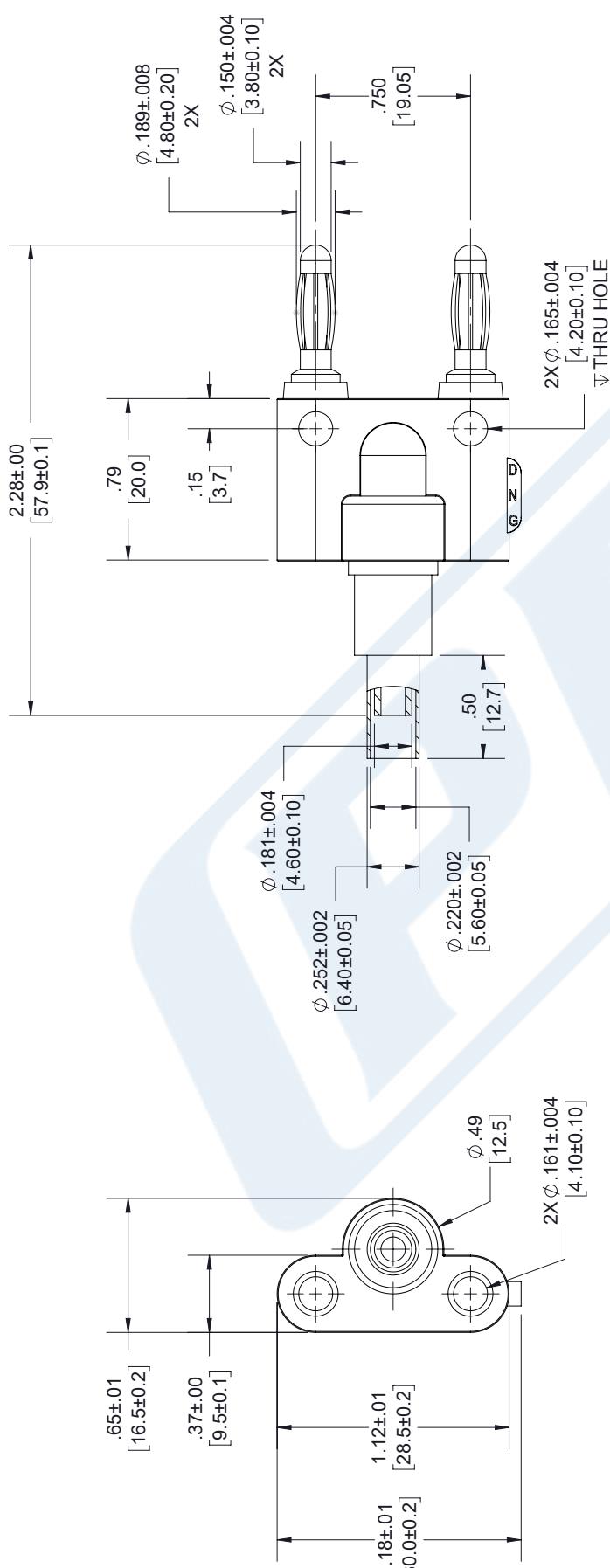
URL: <https://www.pasternack.com/double-banana-plug-pe-c195-pe-p195-rg141-rg303-connector-pe4301-p.aspx>

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# PE4301 CAD Drawing

Double Banana Plug Connector Crimp/Solder Attachment for PE-  
C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

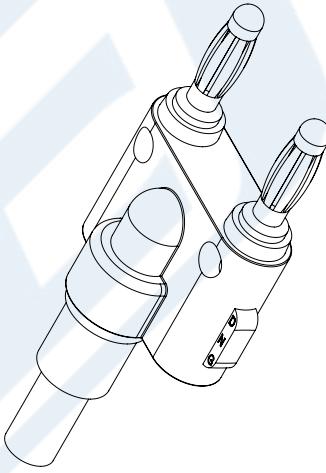
| REVISIONS |             |           |          |
|-----------|-------------|-----------|----------|
| REV.      | DESCRIPTION | DATE      | APPROVED |
| A         | PCR 4301    | 1/10/2020 | S.SELLIS |



## STRIPPING DIMENSIONS

### NOTES:

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



|  |                                   |                        |
|--|-----------------------------------|------------------------|
|  |                                   | THIRD ANGLE PROJECTION |
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| P  | P                                 | SHEET 1 OF 1           |
| Pasterнак Enterprises, Inc.  | P.O. Box 16759, Irvine, CA 92623. | SCALE N/A              |
| Phone: 1.949.261.7451  | Fax: 1.949.261.7451               | ITEM NO. PE4301        |
| Website: www.pasternack.com  |                                   | REV A                  |
| E-mail: sales@pasternack.com   |                                   |                        |
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS<br>TOLERANCES:  |                                   |                        |
| X = ± .2 [5.08] FRACTIONS<br>.XX = ± .02 [.51] ± 1/32<br>XXX = ± .005 [.13] ANGLES ± 1°<br>CABLE LENGTH (L) TOLERANCES:<br>L ≤ 12 [305] ± +1 [25] -0<br>12 [305] < L ≤ 60 [1524] = +2 [51] -0<br>60 [1524] < L ≤ 120 [3048] = +4 [102] -0<br>120 [3048] < L ≤ 300 [7620] = +6 [152] -0<br>300 [7620] < L = +8 [203] -0 |                                   |                        |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.  |                                   |                        |

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

### RF Cables Technical Data Sheet


**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](#)



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

### RF Cables Technical Data Sheet


**TIMES** MICROWAVE SYSTEMS  
An Amphenol Company

**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](#)



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

### RF Cables Technical Data Sheet


**LMR-195-UF**

|                |               |                    |
|----------------|---------------|--------------------|
| 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  
Installation Range  
Storage Range

-40 to +85 deg C  
-40 to +85 deg C  
-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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