



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

### RF Connectors Technical Data Sheet

**PE44503**

#### Configuration

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

#### Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.15:1
- Gold Plated Brass Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE44503 QMA male connector with 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 QMA male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.15:1.

Our QMA male connector PE44503 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                                 |         |         | 1.15:1  |       |
| Operating Voltage (AC)               |         |         | 333     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |

#### Mechanical Specifications

|               |                     |
|---------------|---------------------|
| <b>Size</b>   |                     |
| Length        | 0.932 in [23.67 mm] |
| Width/Dia.    | 0.41 in [10.41 mm]  |
| Weight        | 0.015 lbs [6.8 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: [QMA Male Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44503](#)



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

## RF Connectors Technical Data Sheet

PE44503

### Material Specifications

| Description     | Material        | Plating   |
|-----------------|-----------------|-----------|
| Contact         | Brass           | Gold      |
| Insulation      | PTFE            |           |
| Outer Conductor | Phosphor Bronze | Tri-Metal |
| Body            | Brass           | Tri-Metal |

### Environmental Specifications

#### Temperature

Operating Range -65 to +165 deg C

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

### Plotted and Other Data

Notes:

QMA Male Connector 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.

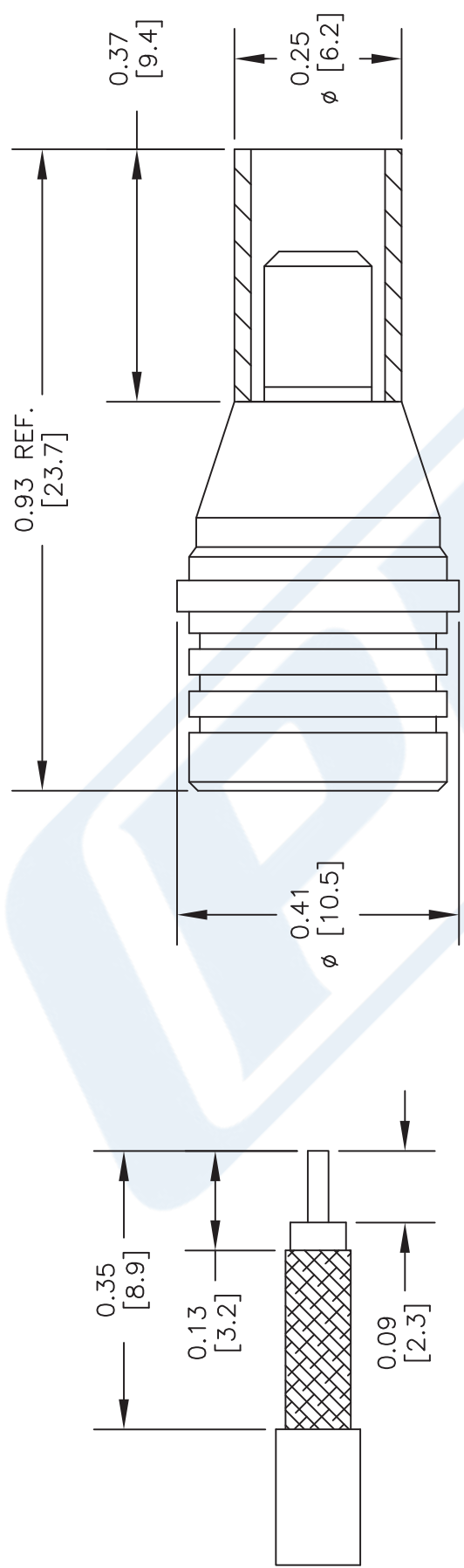
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44503](#)

URL: <https://www.pasternack.com/qma-male-standard-rg58-rg141-connector-pe44503-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.

PE44503 CAD Drawing

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



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .213" HEX CRIMP TOOL

**PE PASTERNAK®**  
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 | E-Mail: sales@pasternack.com

DWG TITLE  
**PE44503**

REV. G FSCM NO. 53919

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.

CAD FILE 032312 SCALE N/A SIZE A 2233



## 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

#### 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.

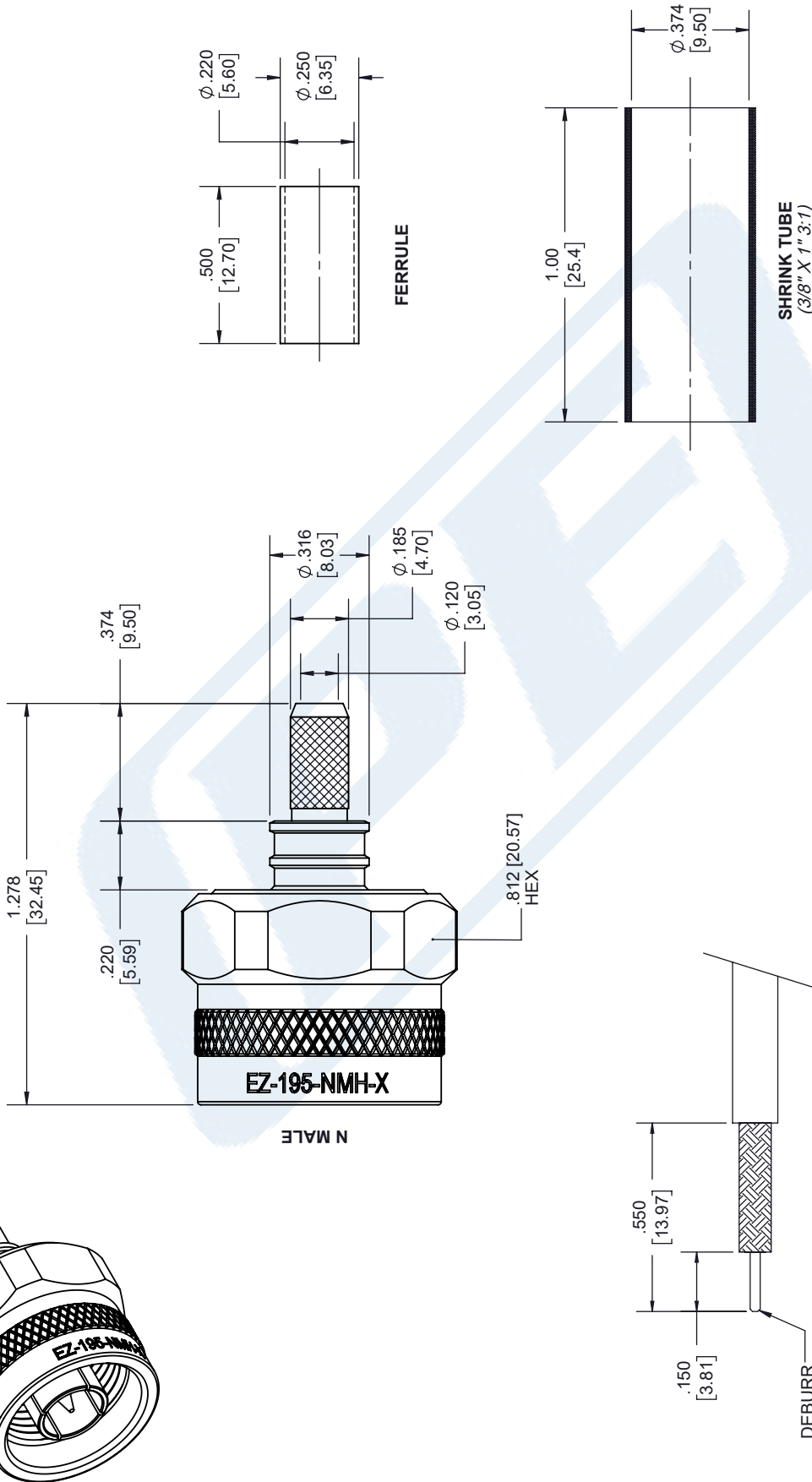
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Non-Solder Contact Attachment for LMR-195, PE-C195, LMR-200, PE-C200 EZ-195-NMH-X](#)

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

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.

**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   | [.51]  | ± .132      |
| .XXX ± .005 | [.13]  | ANGLES ± 1° |

CABLE LENGTH (L) TOLERANCES:

|                             |                |
|-----------------------------|----------------|
| L ≤ 12 [305]                | ± .125 [3.18]  |
| 12 [305] < L ≤ 60 [1524]    | ± .25 [6.35]   |
| 60 [1524] < L ≤ 120 [3048]  | ± .50 [12.70]  |
| 120 [3048] < L ≤ 300 [7620] | ± 1.00 [25.40] |
| 300 [7620] < L              | ± 5% L / -0    |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

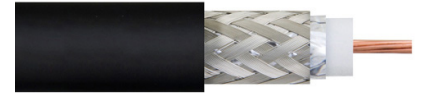
THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

**NOTES:**

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



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



### LMR-195-UF



## Times Microwave Systems Connector Specification

### Configuration

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

### Features

- Ultra Flexible Coax with Stranded Center Conductor
- Max Operating Frequency of 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 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.

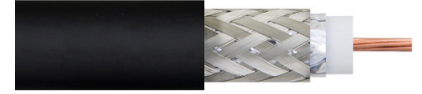
LMR-195-UF cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-195-UF coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship 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      |             | 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          |
| Jacket Spark                         |         |             | 3,000   | Vrms         |
| Inner Conductor DC Resistance        |         |             | 9.5     | Ohms/1000ft  |
| Outer Conductor DC Resistance        |         |             | 4.9     | Ohms/1000ft  |

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



### LMR-195-UF

#### Electrical Specifications

| Description         | Minimum | Typical      | Maximum | Units        |
|---------------------|---------|--------------|---------|--------------|
| 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

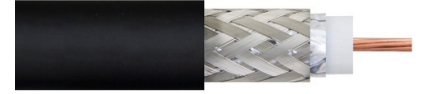
|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.195 in [4.95 mm]       |
| Weight                          | 0.021 lbs/ft [0.03 kg/m] |
| Min. Bend Radius (Installation) | 0.5 in [12.7 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] |
| 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] |



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



### LMR-195-UF

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#### 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.

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](#)

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

