



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

RF Connectors Technical Data Sheet

PE44520

Configuration

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

Features

- Max. Operating Frequency 11 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44520 type N male connector with crimp/crimp 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 type N male connector operates up to a maximum frequency of 11 GHz and offers good VSWR of 1.3:1.

Our type N male connector PE44520 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 |
| VSWR | | | 1.3:1 | |
| Operating Voltage (AC) | | | 1,500 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 2,500 | Vrms |
| Inner Conductor DC Resistance | | | 1 | mOhms |
| Outer Conductor DC Resistance | | | 1 | mOhms |
| Insulation Resistance | 5,000 | | | MOhms |
| RF Leakage | 90 | | | dB |

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/Crimp Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44520](#)



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

RF Connectors Technical Data Sheet

PE44520

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---------------------|----------|----|----|----|----|-------|
| Frequency Range | DC to 10 | | | | | GHz |
| Insertion Loss, Max | 0.15 | | | | | dB |

Mechanical Specifications

Size

| | |
|---------------|--------------------|
| Length | 1.36 in [34.54 mm] |
| Width/Dia. | 0.83 in [21.08 mm] |
| Weight | 0.069 lbs [31.3 g] |
| Mating Cycles | 500 Cycles |

Material Specifications

| Description | Material | Plating |
|--------------|----------|------------------------|
| Contact | Brass | Gold 30 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Tri-Metal |
| Coupling Nut | Brass | Tri-Metal |

Environmental Specifications

Temperature

| | |
|-------------------|--------------------------------------|
| Operating Range | -65 to +165 deg C |
| Vibration | MIL-STD-202, Method 204, Condition B |
| Temperature Cycle | MIL-STD-202, Method 107, Condition B |
| Salt Spray | MIL-STD-202, Method 101, Condition B |

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

RF Connectors Technical Data Sheet

PE44520

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

Plotted and Other Data

Notes:

N Male Connector Crimp/Crimp 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.

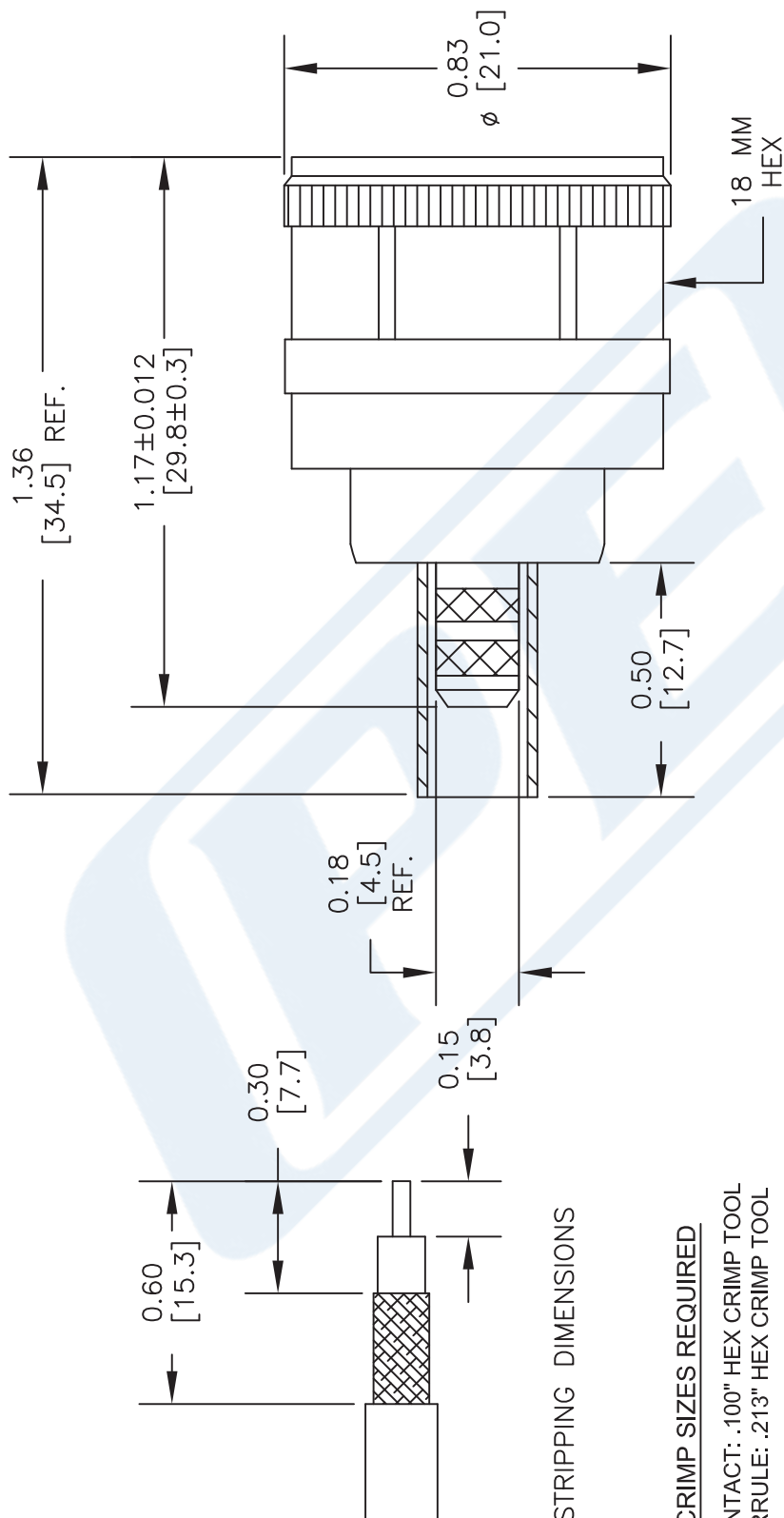
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Crimp Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44520](#)

URL: <https://www.pasternack.com/n-male-standard-pe-c195-0.195-connector-pe44520-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.

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

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



STRIPPING DIMENSIONS

CRIMP SIZES REQUIRED

CONTACT: .100" HEX CRIMP TOOL
FERRULE: .213" HEX CRIMP TOOL

| STANDARD TOLERANCES | |
|---------------------|--------|
| .X | ±0.008 |
| .XX | ±0.004 |
| .XXX | ±0.002 |

***STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES**

DWG TITLE

PE44520

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].

FSCM NO. 53919

CAD FILE 032316

SCALE N/A

SIZE A

XXXX

PE **PASTERNAK®**
THE ENGINEER'S RF SOURCE

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

RF Connectors Technical Data Sheet

PE44532

Configuration

- N Female Connector
- 50 Ohms
- Straight Body Geometry

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

Features

- Max. Operating Frequency 11 GHz
- Gold Plated Phosphor Bronze Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44532 type N female 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 type N female connector operates up to a maximum frequency of 11 GHz.

Our type N female connector PE44532 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 |

Mechanical Specifications

| | |
|-------------|---------------------|
| Size | |
| Length | 1.45 in [36.83 mm] |
| Width/Dia. | 0.67 in [17.02 mm] |
| Weight | 0.071 lbs [32.21 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44532](#)



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

RF Connectors Technical Data Sheet

PE44532

Material Specifications

| Description | Material | Plating |
|-------------|-----------------|-----------|
| Contact | Phosphor Bronze | Gold |
| Insulation | PTFE | |
| 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:

N Female 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 99.4% 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 Female Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, 0.195 inch PE44532](#)

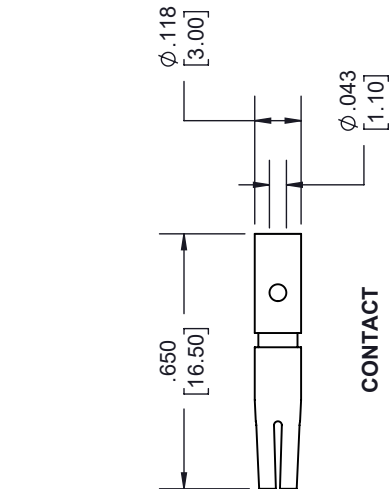
URL: <https://www.pasternack.com/n-female-standard-pe-c195-0.195-connector-pe44532-p.aspx>

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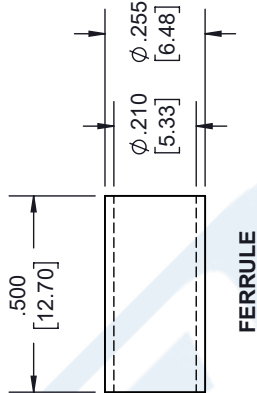
PE44532 CAD Drawing

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

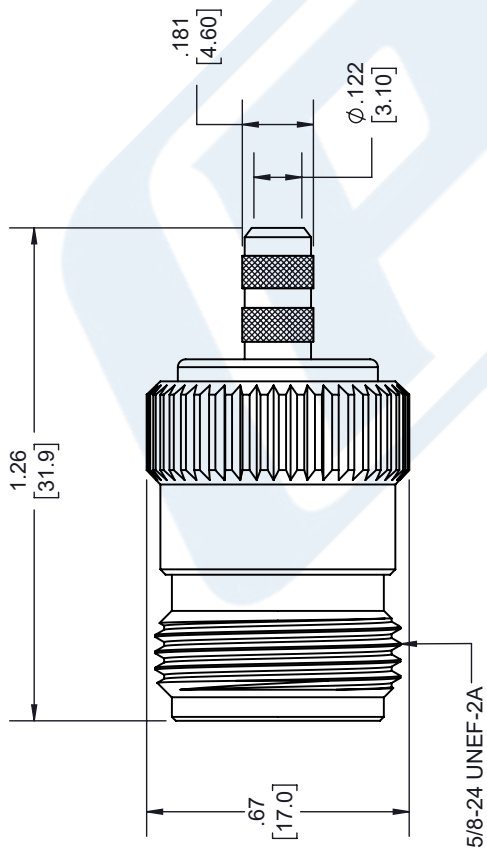
| REVISIONS | | | |
|-----------|-------------|----------|------------|
| REV. | DESCRIPTION | DATE | APPROVED |
| B | PCR PE44532 | 2/2/2022 | A. GANWANI |



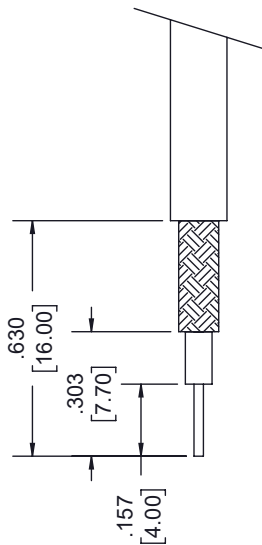
CONTACT



FERRULE



5/8-24 UNEF-2A



STRIPPING DIMENSIONS

NOTES:

- CABLE ATTACHMENT:
 - OUTER: CRIMP.
 - INNER: SOLDER / CRIMP.
- CRIMP SIZE REQUIRED:
 - FERRULE: .213 [5.41] HEX. CRIMP TOOL.
 - CONTACT: .100 [2.54].

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

| TOLERANCES: | |
|---|----------------|
| X = ± .2 | FRACTIONS |
| .XX = ± .02 | [.51] |
| .XXX = ± .005 | [.13] |
| 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% / -0 |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | |



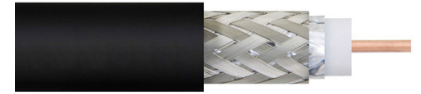
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| | | | |
|-------|-----|----|---|
| SHEET | 1 | OF | 1 |
| SCALE | N/A | | |
| REV | A | | |

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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

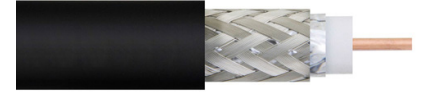
LMR-195 part number from Pasternack is a LMR-195 coax cable that is flexible. Pasternack LMR-195 flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-195 coax is constructed with a 0.195 jacket made of PE. LMR-195 coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency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

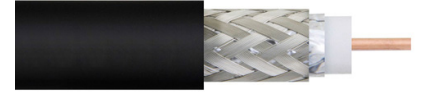
| | |
|--------------------|------------------|
| Temperature | |
| Operating Range | -40 to +85 deg C |
| Storage Range | -70 to +85 deg C |

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

Plotted and Other Data

Notes:

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



LMR-195

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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

