



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<br>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 |

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**

**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.

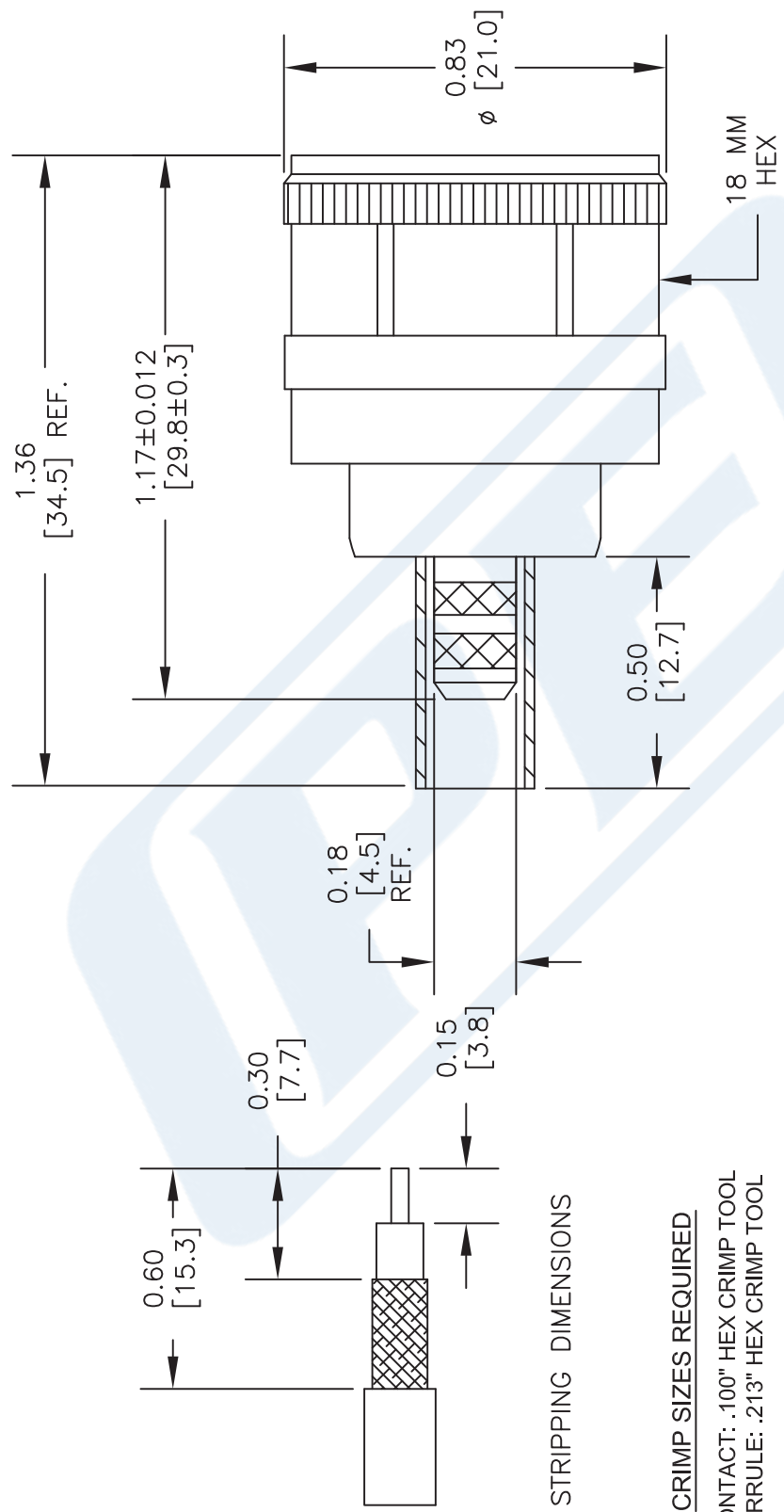
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URL: <https://www.pasternack.com/n-male-standard-pe-c195-0.195-connector-pe44520-p.aspx>

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# PE44520 CAD Drawing

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

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  
**PE44520**

FSCM NO. 53919

SCALE N/A

SIZE A

XXXX

**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



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## RF Connectors Technical Data Sheet

**PE44520**

### Configuration

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- 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
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### 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.

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### 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    |

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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**

### 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] |
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### Material Specifications

| Description  | Material | Plating                |
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### Environmental Specifications

#### Temperature

|                   |                                      |
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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:

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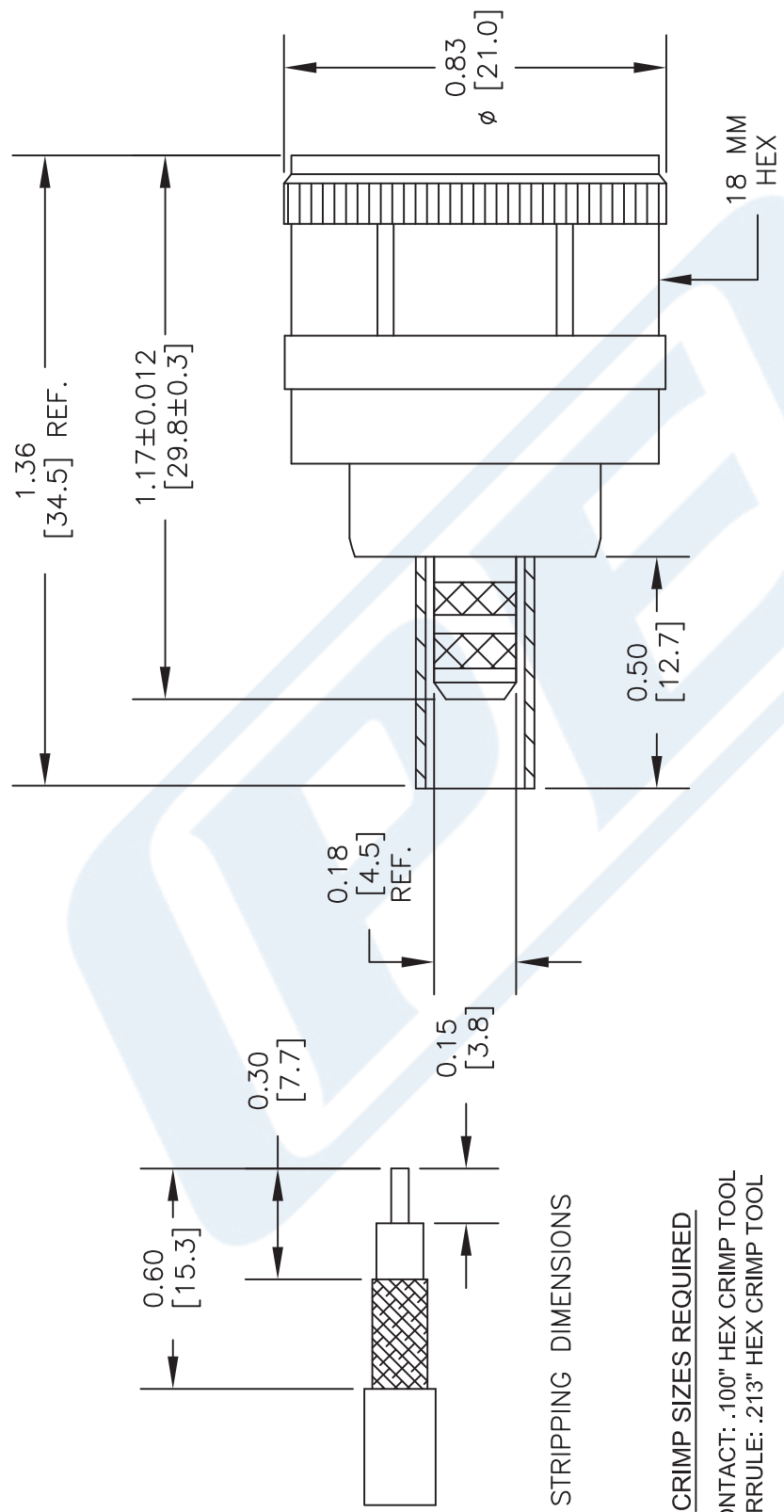
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URL: <https://www.pasternack.com/n-male-standard-pe-c195-0.195-connector-pe44520-p.aspx>

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# PE44520 CAD Drawing

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DWG TITLE  
**PE44520**

FSCM NO. 53919

SCALE N/A

SIZE A

XXXX

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Website: www.pasternack.com | E-Mail: sales@pasternack.com

## Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket

### RF Cables Technical Data Sheet

**RG58C/U**

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 5       | GHz          |
| Impedance               |         | 50            |         | Ohms         |
| Velocity of Propagation |         | 65.9          |         | %            |
| Operating Voltage (AC)  |         |               | 1,900   | Vrms         |
| Nominal Capacitance     |         | 30.8 [101.05] |         | pF/ft [pF/m] |

#### Performance by Frequency Band

| Description           | F1   | F2    | F3    | F4     | F5 | Units    |
|-----------------------|------|-------|-------|--------|----|----------|
| Frequency             | 0.01 | 0.1   | 1     | 5      |    | GHz      |
| Attenuation, Typ      | 1.4  | 4.9   | 20    | 60     |    | dB/100ft |
|                       | 4.59 | 16.08 | 65.62 | 196.85 |    | dB/100m  |
| Input Power (CW), Max |      |       | 44    |        |    | Watts    |

#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.195 in [4.95 mm]       |
| Weight                          | 0.025 lbs/ft [0.04 Kg/m] |
| Min. Bend Radius (Installation) | 0.98 in [24.89 mm]       |
| Min. Bend Radius (Repeated)     | 1.96 in [49.78 mm]       |

#### Construction Specifications

| Description     | Material and Plating    | Diameter           |
|-----------------|-------------------------|--------------------|
| Inner Conductor | Copper, Tin, 19 Strands | 0.036 in [0.91 mm] |
| Conductor Type  | Stranded                |                    |
| Dielectric      | PE                      | 0.116 in [2.95 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG58 Coax Cable Single Shielded with Black PVC \(NC\) Jacket RG58C/U](#)

## Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket

### RF Cables Technical Data Sheet

**RG58C/U**

|              |                     |                    |
|--------------|---------------------|--------------------|
| First Shield | Tinned Copper Braid | 0.138 in [3.51 mm] |
| Jacket       | PVC (NC), Black     | 0.195 in [4.95 mm] |

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +80 deg C

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

#### Plotted and Other Data

Notes:

Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) 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.

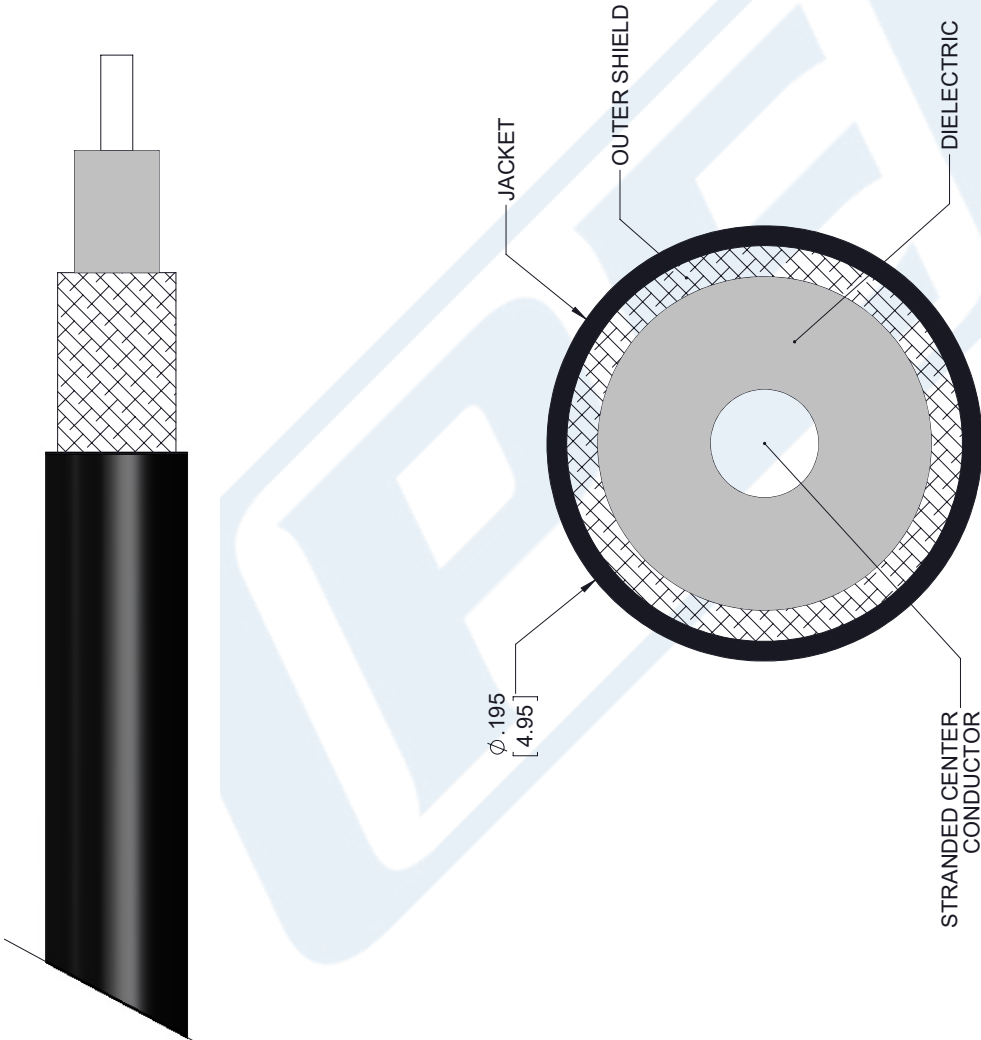
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG58 Coax Cable Single Shielded with Black PVC \(NC\) Jacket RG58C/U](#)

URL: <https://www.pasternack.com/flexible-0.195-rg58-50-ohm-coax-cable-pvc-jacket-rg58c-u-p.aspx>

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RG58C/U CAD Drawing

Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket



SECTION VIEW

| STANDARD | TOLERANCES |
|----------|------------|
| .X       | ±0.2       |
| .XX      | ±0.01      |
| .XXX     | ±0.005     |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

RG58C/U

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CAGE CODE 53919

CAD FILE 091817

SCALE N/A

SIZE A

7361