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# D-Sub Receptacle Right Angle Contact Crimp/ Solder Attachment For RG58, RG141, RG303

## TECHNICAL DATA SHEET PE4816

**D-Sub Receptacle Right Angle Contact Crimp/Solder Attachment For RG58, RG141, RG303**

### Configuration

| | |
|---|---|
| Connector | D-Sub Receptacle |
| Connector Interface Type | RG58,RG141,RG303 |
| Cable Attachment Method (Shield/Contact) | Crimp/Solder |
| Body Style | Right Angle |

### Electrical Specifications

| | |
|---|---|
| Impedance, Ohms | 50 |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length, in [mm] | 0.755 [19.18] |
| Height, in [mm] | 0.715 [18.16] |
| Weight, lbs [g] | 0.006 [2.72] |

**Connector**

| | |
|---|---|
| Type | D-Sub Receptacle |
| Contact Material and Plating | Gold |
| Body Material and Plating | Brass, Gold |
| Dielectric Type | PTFE |

### Compliance Certifications (visit www.Pasternack.com for current document)

### Plotted and Other Data

| | |
|---|---|
| Notes: | Values at 25 °C, sea level |

D-Sub Receptacle Right Angle Contact Crimp/Solder Attachment For RG58, RG141, RG303 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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: D-Sub Receptacle Right Angle Contact Crimp/Solder Attachment For RG58, RG141, RG303 PE4816

URL: http://www.pasternack.com/d-sub-receptacle-standard-rg58-rg141-rg303-connector-pe4816-p.aspx

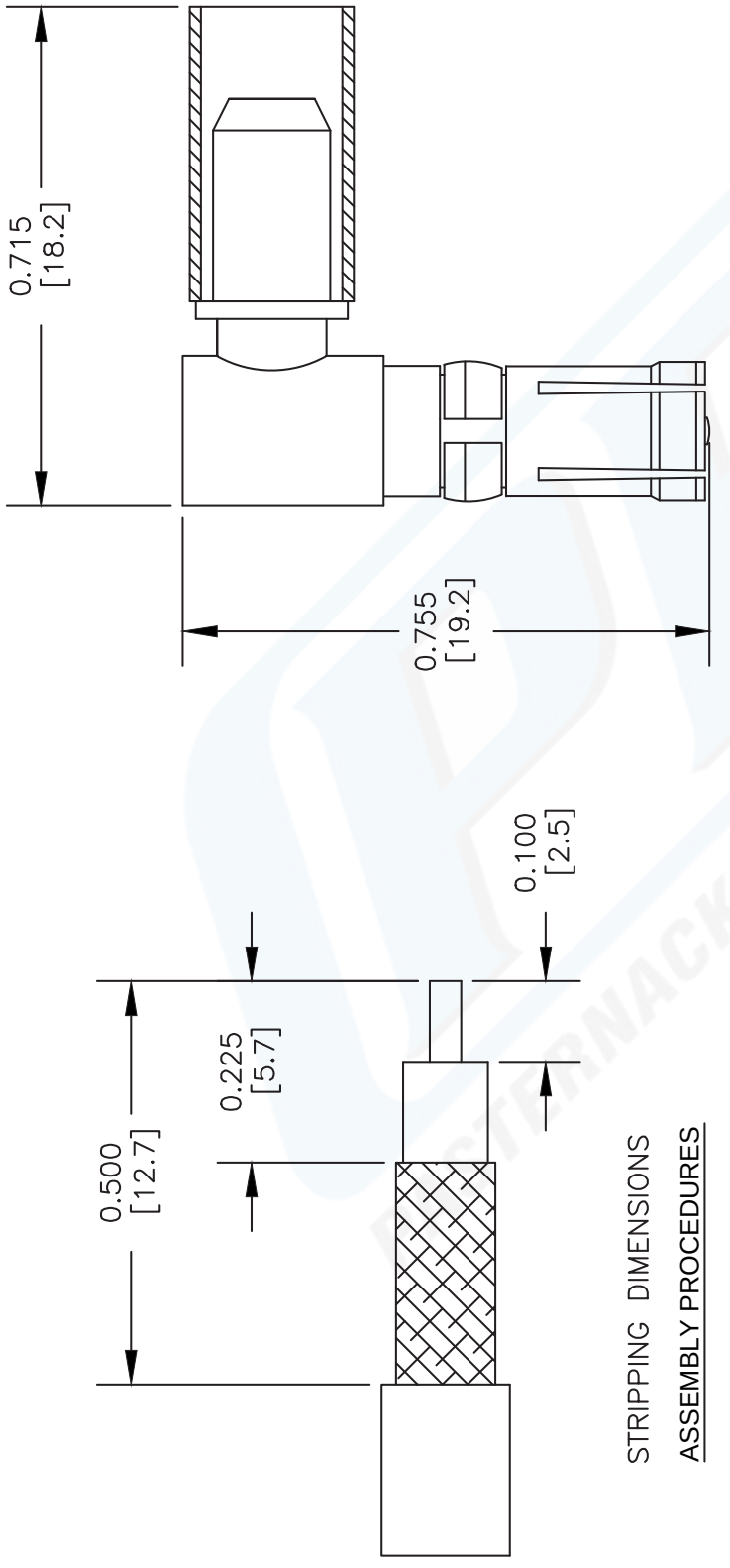
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# PE4816 CAD Drawing

D-Sub Receptacle Right Angle Contact Crimp/Solder
Attachment For RG58, RG141, RG303




STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE & SOLDER CAP IN PLACE.

CRIMP SIZE REQUIRED

FERRULE: .213" HEX CRIMP TOOL

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.

| DWG TITLE | CAD FILE | SCALE | SIZE |
|---|---|---|---|
| PE4816 | 061002 | N/A | A |

FSCM NO. 53919

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# 7/16 DIN Female Bulkhead Connector Crimp/Solder Attachment For PE-C195, 0.195 inch, 1.161 inch DD Hole

## TECHNICAL DATA SHEET PE44548

**7/16 DIN Female Bulkhead Connector Crimp/Solder Attachment For PE-C195, 0.195 inch, 1.161 inch DD Hole**

### Configuration

| | |
|---|---|
| Connector | 7/16 DIN Female |
| Connector Interface Type | PE-C195,0.195 inch |
| Cable Attachment Method (Shield/Contact) | Crimp/Solder |
| Body Style | Straight |
| Mount Method | Bulkhead |

### Electrical Specifications

| | |
|---|---|
| Impedance, Ohms | 50 |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length, in [mm] | 2.08 [52.83] |
| Width/Dia., in [mm] | 1.38 [35.05] |
| Weight, lbs [g] | 0.11 [49.9] |

**Connector**

| | |
|---|---|
| Type | 7/16 DIN Female |
| Contact Material and Plating | Beryllium Copper, Silver |
| Body Material and Plating | Brass, Tri-Metal |
| Dielectric Type | PTFE |

### Compliance Certifications (visit www.Pasternack.com for current document)

| | |
|---|---|
| RoHS Compliant | Yes |

### Plotted and Other Data

| | |
|---|---|
| Notes: | Values at 25 °C, sea level |

7/16 DIN Female Bulkhead Connector Crimp/Solder Attachment For PE-C195, 0.195 inch, 1.161 inch DD Hole from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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: 7/16 DIN Female Bulkhead Connector Crimp/Solder Attachment For PE-C195, 0.195 inch, 1.161 inch DD Hole PE44548

URL: http://www.pasternack.com/7-16-female-standard-pe-c195-0.195-connector-pe44548-p.aspx

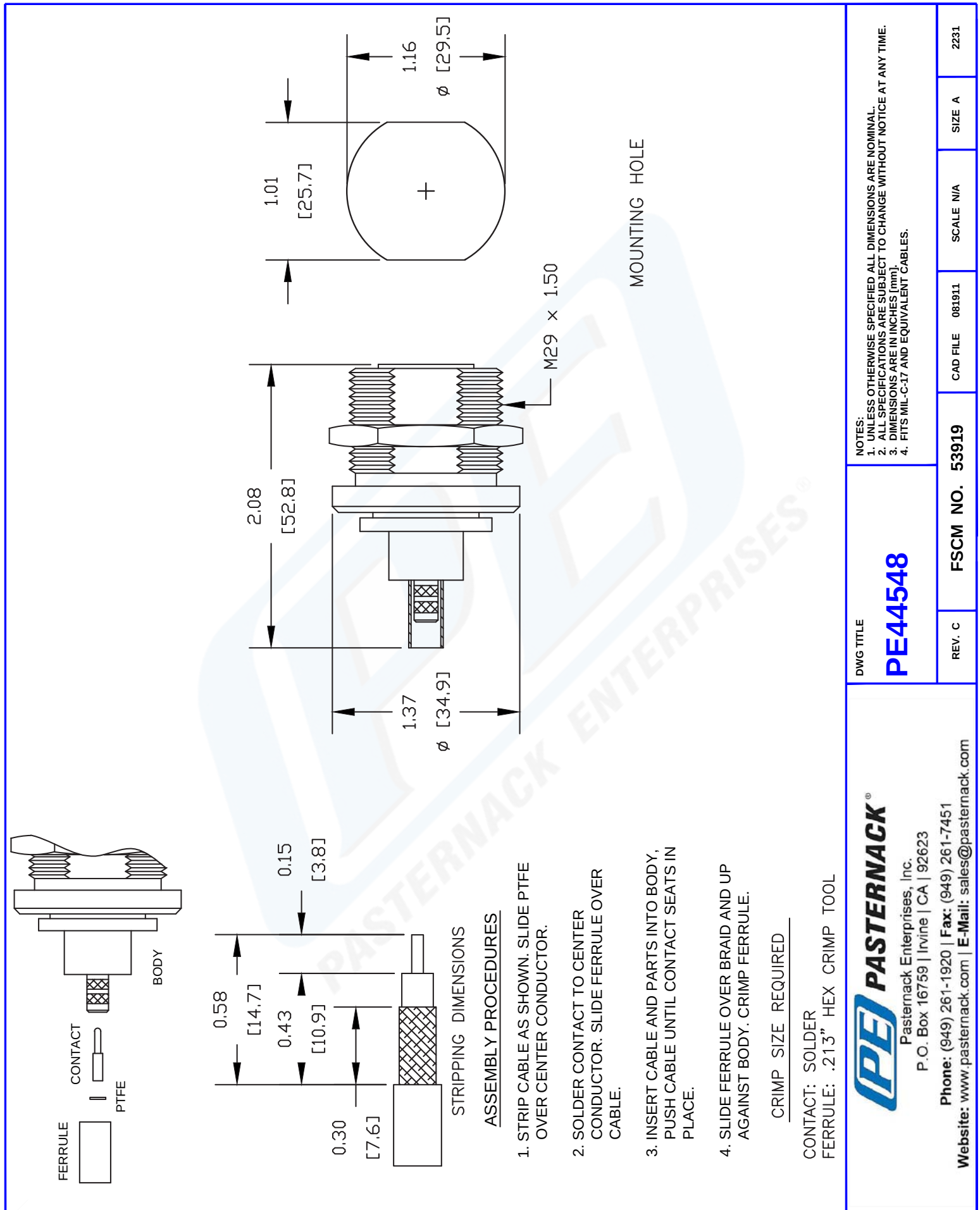
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# PE44548 CAD Drawing

7/16 DIN Female Bulkhead Connector Crimp/Solder Attachment
For PE-C195, 0.195 inch, 1.161 inch DD Hole




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# LMR-LW195 Light weight version of the 195 series Low Loss Coax

RF Cables
Technical Data Sheet

TIMES MICROWAVE SYSTEMS

LMR-LW195

## Times Microwave Systems Coax Cable Specification

## Configuration

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

## Features

- Light Weight Coax with Aluminum Shielding
- Max Operating Frequency of 8 GHz
- Phase Velocity 80% VoP
- Max Operating Temperature +85°C
- PE Jacket
- Min Install Bend Radius of 0.5 inches

## Applications

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

### Description

LMR-LW195 Light weight 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-LW195 coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and light weight flexible 50 Ohm coax cable LMR-LW195 is constructed with a 0.195 inch diameter and Black PE jacket.

LMR-LW195 flexible 50 Ohm coax cable with PE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.195 inch diameter and low loss flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-LW195 PE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-LW195 coax cable provides specs for this wire on its RF coax cable LMR-LW195 datasheet.

LMR-LW195 cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss and light weight LMR-LW195 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 | | 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 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: LMR-LW195 Light weight version of the 195 series Low Loss Coax LMR-LW195

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# LMR-LW195 Light weight version of the 195 series Low Loss Coax



| | | | |
|---|---|---|---|
| Inner Conductor DC Resistance | | 7.6 | Ohms/1000ft |
| Outer Conductor DC Resistance | | 18.1 | 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 | 0.05 | 0.15 | 0.45 | 0.9 | 1.5 | GHz |
| Attenuation, Typ | 2.5 | 4.4 | 7.8 | 11.1 | 14.5 | dB/100ft |
| | 8.2 | 14.44 | 25.59 | 36.42 | 47.57 | dB/100m |
| Input Power (CW), Max | 680 | 390 | 220 | 160 | 120 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|---|---|---|---|---|---|---|
| Frequency | 1.8 | 2 | 2.5 | 5.8 | 8 | GHz |
| Attenuation, Typ | 16 | 16.9 | 19 | 29.9 | 35.7 | dB/100ft |
| | 52.49 | 55.45 | 62.34 | 98.1 | 117.13 | dB/100m |
| Input Power (CW), Max | 110 | 100 | 90 | 60 | 40 | Watts |

## Mechanical Specifications

| | |
|---|---|
| Diameter | 0.195 in [4.95 mm} |
| Weight | 0.015 lbs/ft [0.02 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 | |

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: LMR-LW195 Light weight version of the 195 series Low Loss Coax LMR-LW195

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# LMR-LW195 Light weight version of the 195 series Low Loss Coax



| | | |
|---|---|---|
| Dielectric | Foam PE | 0.11 in [2.79 mm] |
| First Shield | Aluminum Tape | [ ] |
| Second Shield | Aluminium | [ ] |
| Jacket | PE, 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-LW195 Light weight 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-LW195 Light weight version of the 195 series Low Loss Coax LMR-LW195

URL: https://www.pasternack.com/low-loss-flexible-lmr-lw195-pe-jacket-aluminum-tape-over-aluminium-outer-conductor-double-shielded-lmr-lw195-p.aspx

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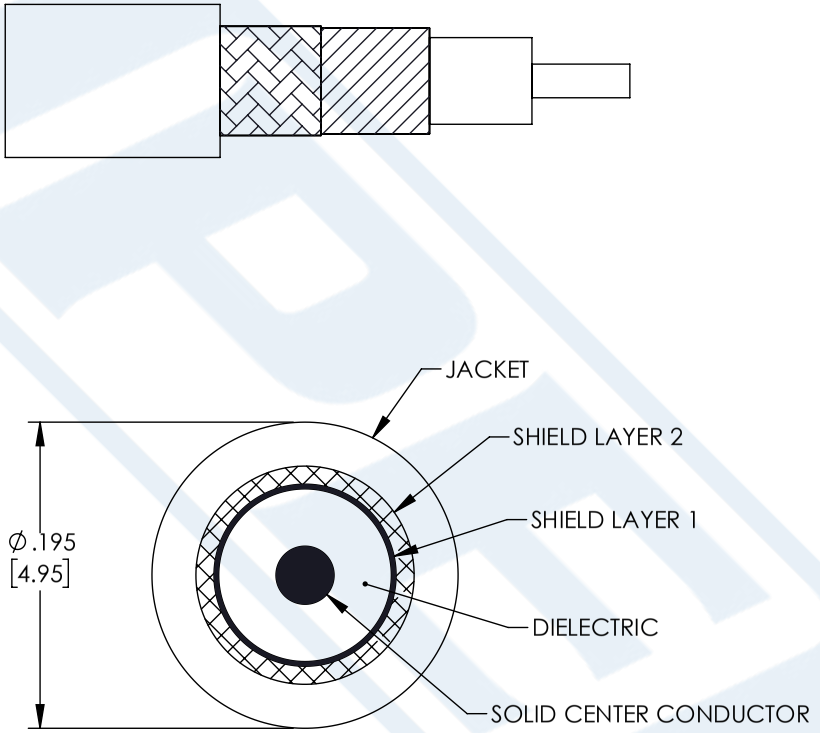
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| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 06-04-2021 | SELLIS |




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-LW195 | A |

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TIMES MICROWAVE SYSTEMS

# LMR-LW195 CAD Drawing

LMR-LW195 Light weight version of the 195 series Low Loss Coax



T-Rev.D