



## SMA Female Bulkhead Connector Crimp/Solder Attachment For RG58, .235 inch D Hole

### RF Connectors Technical Data Sheet

**PE4420**

#### Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG58
- Bulkhead

#### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

#### Description

Pasternack's PE4420 SMA female bulkhead connector with crimp/solder attachment for RG58 (.235 inch D hole) is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.3:1. This SMA bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SMA female bulkhead connector PE4420 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      |         | 12.4    | GHz   |
| VSWR                   |         |         | 1.3:1   |       |
| Operating Voltage (AC) |         |         | 500     | Vrms  |

#### Mechanical Specifications

Weight 0.013 lbs [5.9 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead Connector Crimp/Solder Attachment For RG58, .235 inch D Hole PE4420](#)



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#### Material Specifications

| Description  | Material         | Plating                   |
|--------------|------------------|---------------------------|
| Contact      | Beryllium Copper | Gold<br>50 µin minimum    |
| Insulation   | PTFE             |                           |
| Body         | Brass            | Nickel<br>100 µin minimum |
| Crimp Sleeve | Brass            | Nickel                    |
| Washer       | Brass            | Nickel                    |

#### Environmental Specifications

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

#### Plotted and Other Data

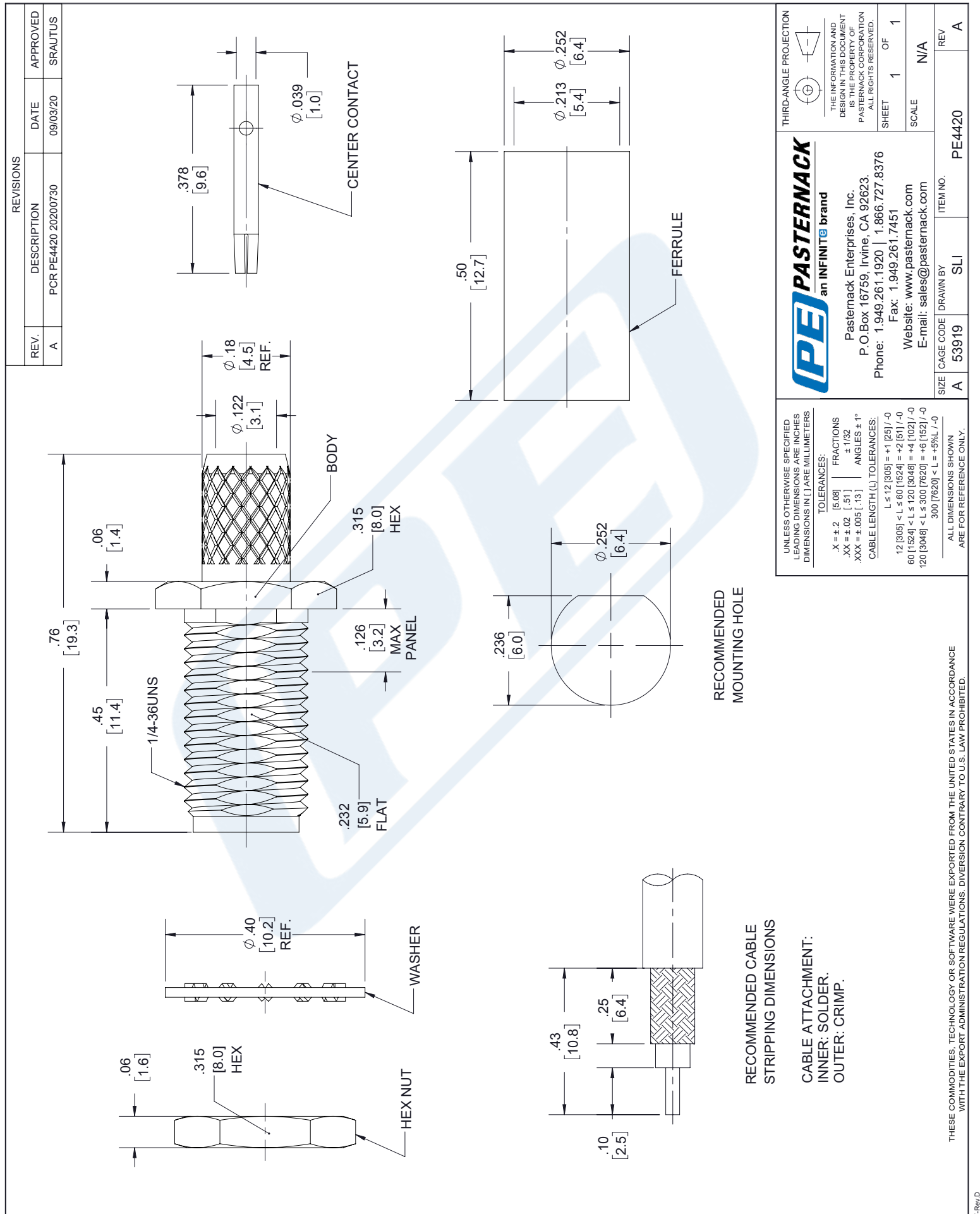
Notes:

SMA Female Bulkhead Connector Crimp/Solder Attachment For RG58, .235 inch D Hole 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/sma-female-standard-rg58-connector-pe4420-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.





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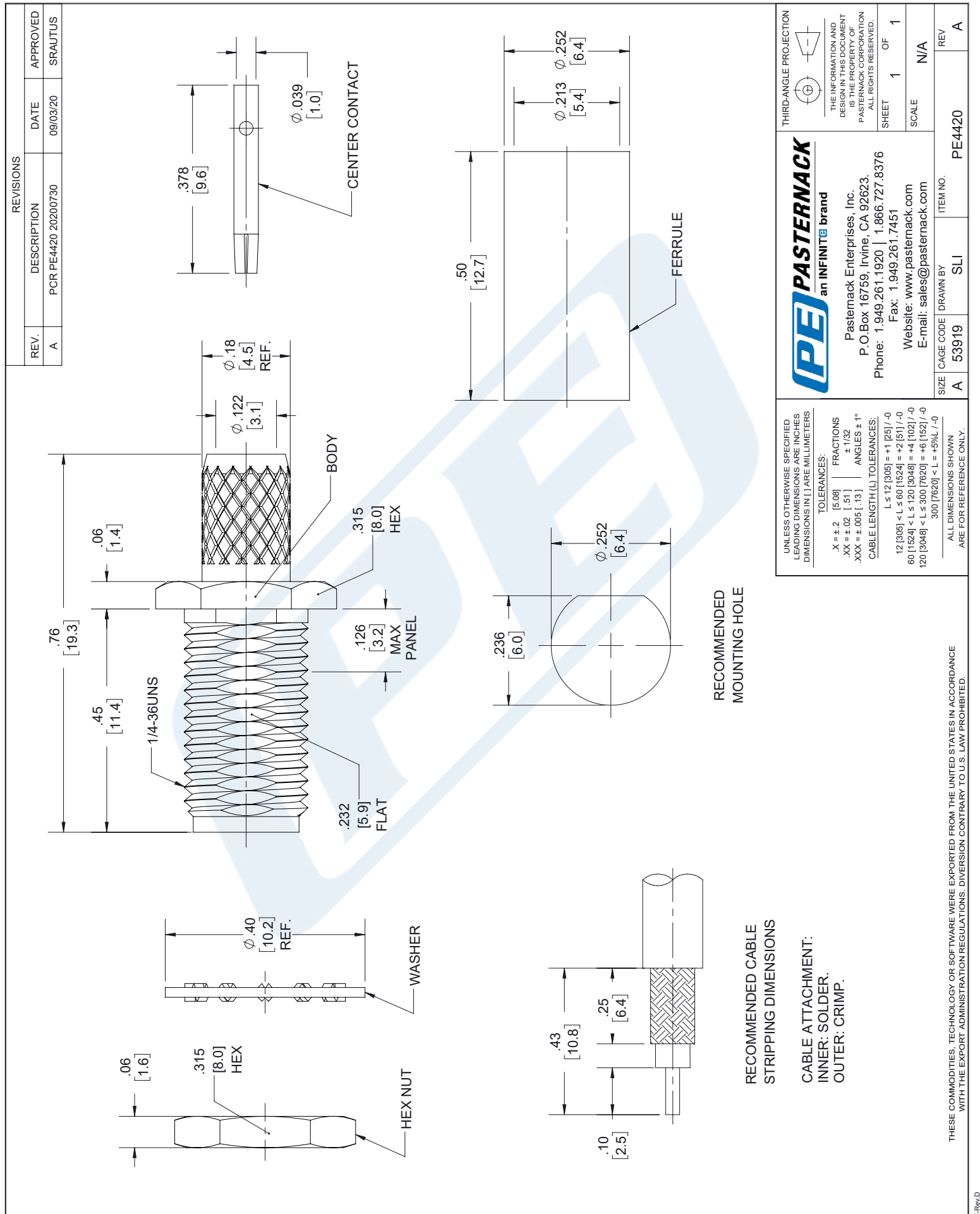
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## LMR-LW195 Light weight version of the 195 series Low Loss Coax

### RF Cables Technical Data Sheet



**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         |

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

### RF Cables Technical Data Sheet



**LMR-LW195**

|                               |              |              |
|-------------------------------|--------------|--------------|
| 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                |                    |

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**LMR-LW195**

|               |               |                    |
|---------------|---------------|--------------------|
| 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:

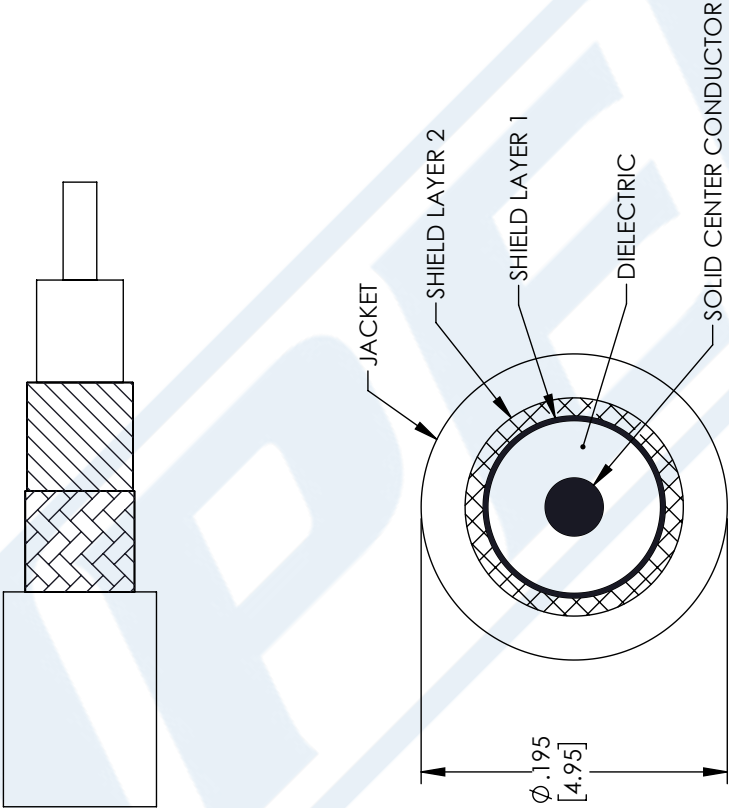
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URL: <https://www.pasternack.com/low-loss-flexible-lmr-lw195-pe-jacket-aluminum-tape-over-aluminium-outer-conductor-double-shielded-lmr-lw195-p.aspx>

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| 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      | [ .008 ] | FRACTIONS        | ± 1/32      |
| .XX = ± .02   | [ .51 ]  | ANGLES           | ± 1°        |
| .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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an INFINITI® brand

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SHEET 1 OF 1

SCALE N/A

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SIZE A

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ITEM NO. LMR-LW195

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