



N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components, LF Solder

TECHNICAL DATA SHEET

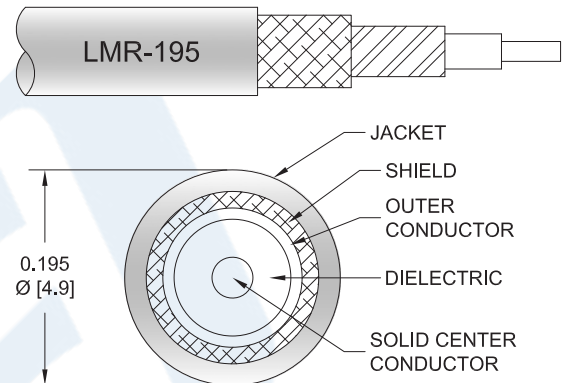
PE3C0119LF

Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: LMR-195
- Coax Flex Type: Flexible

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0119LF type N male right angle to type N male right angle cable using LMR-195 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3C0119LF type N male to type N male cable assembly operates to 5.8 GHz. The right angle type N interfaces on the LMR-195 cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components, LF Solder PE3C0119LF](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|----------------------------------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 80 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.27 [4.17] | | ns/ft [ns/m] |
| Capacitance | | 25.4 [83.33] | | pF/ft [pF/m] |
| Inductance | | 0.064 [0.21] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 7.6 [24.93] | | Ω /1000ft [Ω /Km] |
| DC Resistance Outer Conductor | | 4.9 [16.08] | | Ω /1000ft [Ω /Km] |
| Jacket Spark | | | 3,000 | Vrms |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|---------------|--------------------------|-----------------------|------|------|------|------|------|-------|--------------|
| | | Frequency | 250 | 500 | 1000 | 2500 | 5800 | MHz | |
| PE3C0119LF | Custom Lengths Available | Insertion Loss (Typ.) | 0.06 | 0.08 | 0.12 | 0.19 | 0.3 | dB/ft | |
| | | | 0.19 | 0.27 | 0.39 | 0.63 | 0.99 | dB/m | |
| PE3C0119LF-12 | 12 inch | Insertion Loss (Typ.) | 0.46 | 0.49 | 0.52 | 0.59 | 0.7 | dB | 0.208 |
| PE3C0119LF-24 | 24 inch | Insertion Loss (Typ.) | 0.52 | 0.57 | 0.64 | 0.78 | 1 | dB | 0.231 |
| PE3C0119LF-36 | 36 inch | Insertion Loss (Typ.) | 0.58 | 0.65 | 0.75 | 0.97 | 1.3 | dB | 0.253 |
| PE3C0119LF-48 | 48 inch | Insertion Loss (Typ.) | 0.63 | 0.73 | 0.87 | 1.16 | 1.6 | dB | 0.275 |
| PE3C0119LF-60 | 60 inch | Insertion Loss (Typ.) | 0.69 | 0.81 | 0.98 | 1.35 | 1.9 | dB | 0.297 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.2 dB
 Loss due to Connector 2: 0.2 dB
 Base Weight: 0.208 pounds
 Additional Weight per Inch: 0.00184 pounds

Mechanical Specifications

Cable Assembly

Weight 0.208 lbs [94.35 g]

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Cable

| | |
|--------------------------------------|------------------------|
| Cable Type | LMR-195 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper Braid |
| Jacket Material | PE, Black |
| Jacket Diameter | 0.195 in [4.95 mm] |
| One Time Minimum Bend Radius | 0.5 in [12.7 mm] |
| Repeated Minimum Bend Radius | 2 in [50.8 mm] |
| Bending Moment | 0.2 lbs-ft [0.27 N-m] |
| Flat Plate Crush | 15 lbs/in [0.27 Kg/mm] |
| Tensile Strength | 40 lbs [18.14 Kg] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|-----------------------------|-----------------------------|
| Type | N Male Right Angle Threaded | N Male Right Angle Threaded |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 50µ in. minimum | 50µ in. minimum |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 80µ in. minimum | 80µ in. minimum |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 80µ in. minimum | 80µ in. minimum |

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C0119LF

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C0119LF-12 = 12 inches long cable
PE3C0119LF-100cm = 100 cm long cable

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components, LF Solder 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/n-male-right-angle-to-n-male-low-loss-cable-using-lmr-195-lf-solder-pe3c0119lf-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.

PE3C0119LF CAD Drawing

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components, LF Solder

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