



## N Male to N Male Low Loss Cable Using LMR-195 Coax with HeatShrink

### TECHNICAL DATA SHEET

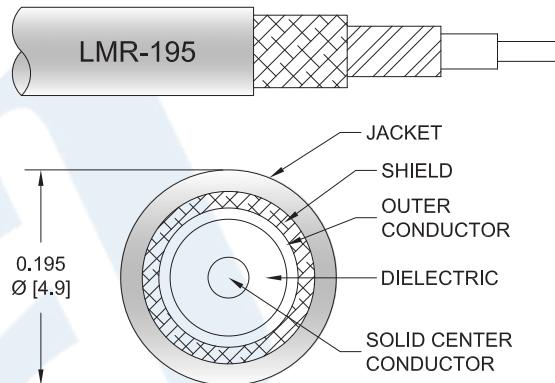
**PE3C0061/HS**

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- 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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C0061/HS type N male to type N male 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 PE3C0061/HS type N male to type N male cable assembly operates to 5.8 GHz. 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 to N Male Low Loss Cable Using LMR-195 Coax with HeatShrink PE3C0061/HS](#)



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**PE3C0061/HS**

#### 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          |
| PE3C0061/HS    | 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  |              |
| PE3C0061/HS-12 | 12 inch                  | Insertion Loss (Typ.) | 0.26      | 0.29 | 0.32 | 0.39 | 0.5  | dB    | 0.158        |
| PE3C0061/HS-24 | 24 inch                  | Insertion Loss (Typ.) | 0.32      | 0.37 | 0.44 | 0.58 | 0.8  | dB    | 0.181        |
| PE3C0061/HS-36 | 36 inch                  | Insertion Loss (Typ.) | 0.38      | 0.45 | 0.55 | 0.77 | 1.1  | dB    | 0.203        |
| PE3C0061/HS-48 | 48 inch                  | Insertion Loss (Typ.) | 0.43      | 0.53 | 0.67 | 0.96 | 1.4  | dB    | 0.225        |
| PE3C0061/HS-60 | 60 inch                  | Insertion Loss (Typ.) | 0.49      | 0.61 | 0.78 | 1.15 | 1.7  | dB    | 0.247        |

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: 0.1 dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.158 pounds

Additional Weight per Inch: 0.00184 pounds

#### Mechanical Specifications

##### Cable Assembly

Weight 0.158 lbs [71.67 g]

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**PE3C0061/HS**
**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 Threaded | N Male Threaded |
| Specification                     | MIL-STD-348     | MIL-STD-348     |
| Impedance                         | 50 Ohms         | 50 Ohms         |
| Contact Material and Plating      | Brass, Silver   | Brass, Silver   |
| Dielectric Type                   | PTFE            | PTFE            |
| Body Material and Plating         | Brass, Nickel   | Brass, Nickel   |
| Coupling Nut Material and Plating | Brass, Nickel   | Brass, Nickel   |

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

**Plotted and Other Data**

Notes:

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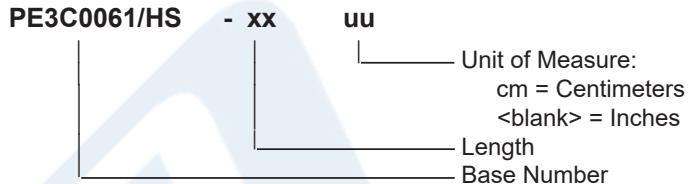
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**PE3C0061/HS**

#### How to Order

Part Number Configuration:



Example: PE3C0061/HS-12 = 12 inches long cable  
PE3C0061/HS-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using LMR-195 Coax with HeatShrink 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-to-n-male-low-loss-cable-using-lmr-195-with-heatshrink-pe3c0061-hs-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.

# PE3C0061/HS CAD Drawing

N Male to N Male Low Loss Cable Using LMR-195 Coax with HeatShrink

