



## N Female Bulkhead to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

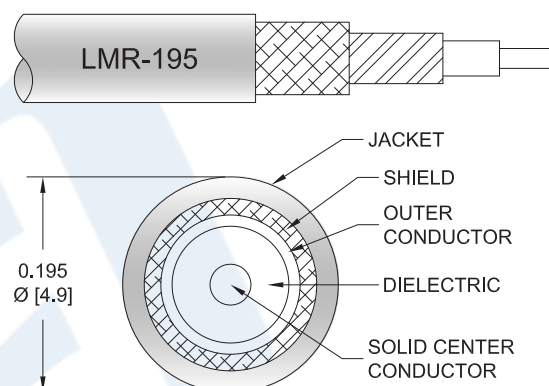
**PE3C5183/HS**

#### Configuration

- Connector 1: N Female Bulkhead
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-195

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C5183/HS type N female bulkhead to TNC 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 TNC cable assembly has a female to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3C5183/HS type N female to TNC male cable assembly operates to 3 GHz. The right angle TNC interface on the LMR-195 cable allows for easier connections in tight spaces. Our RF cable assembly with type N bulkhead interface 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. 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 Female Bulkhead to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink PE3C5183/HS](#)



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**PE3C5183/HS**

#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 3       | GHz             |
| VSWR                          |         |              | 1.5:1   |                 |
| 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

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 0.1   | 0.25  | 0.5   | 1     | 3     | GHz   |
| Insertion Loss (Typ.) | 0.034 | 0.057 | 0.081 | 0.116 | 0.206 | dB/ft |
|                       | 0.11  | 0.19  | 0.27  | 0.38  | 0.68  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the right angle connector and 0.1 dB for the straight connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.176 lbs [79.83 g]

##### 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]  |

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### RF Cable Assemblies Technical Data Sheet

**PE3C5183/HS**

|                              |                        |
|------------------------------|------------------------|
| 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 Female Bulkhead     | TNC Male Right Angle |
| Specification                      |                       | MIL-STD-348A         |
| Impedance                          | 50 Ohms               | 50 Ohms              |
| Contact Material and Plating       | Phosphor Bronze, Gold | Brass, Gold          |
| Contact Plating Specification      |                       | 30 µin minimum       |
| Dielectric Type                    | PTFE                  | PTFE                 |
| Body Material and Plating          | Brass, Tri-Metal      | Brass, Nickel        |
| Body Plating Specification         |                       | 100 µin minimum      |
| Coupling Nut Material and Plating  |                       | Brass, Nickel        |
| Coupling Nut Plating Specification |                       | 100 µin minimum      |

#### Environmental Specifications

##### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
|-----------------|------------------|

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink PE3C5183/HS](#)



## N Female Bulkhead to TNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

**PE3C5183/HS**

#### How to Order

Part Number Configuration:

**PE3C5183/HS**

- **xx**

**uu**

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

Example: PE3C5183/HS-12 = 12 inches long cable  
PE3C5183/HS-100cm = 100 cm long cable

N Female Bulkhead to TNC Male Right Angle 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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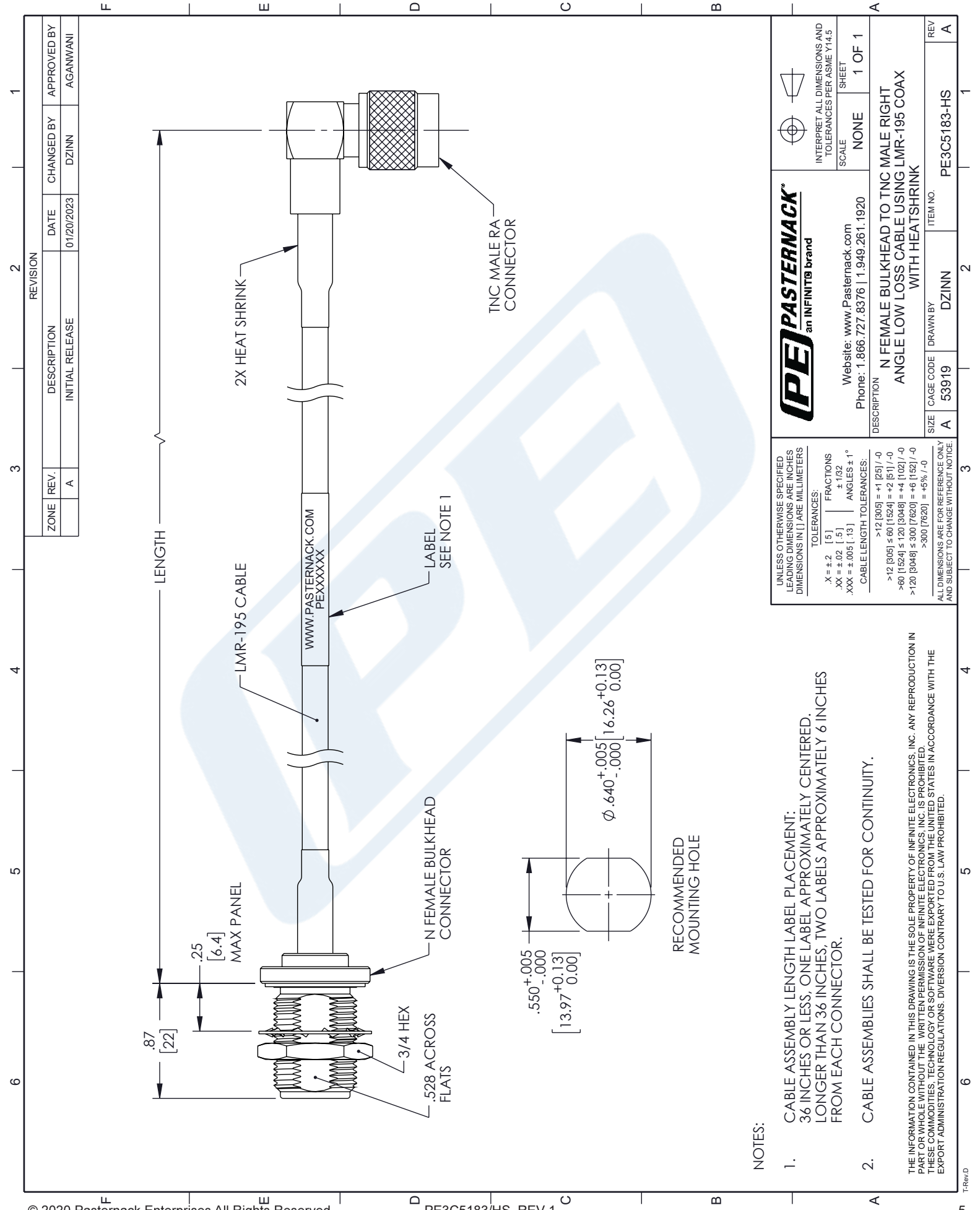
URL: <https://www.pasternack.com/n-female-bulkhead-to-tnc-male-low-loss-cable-using-lmr-195-with-heatshrink-pe3c5183-hs-p.aspx>

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# PE3C5183/HS CAD Drawing

N Female Bulkhead to TNC Male Right Angle Low Loss

Cable Using LMR-195 Coax with HeatShrink



NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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|---|-----------|--|
| <b>PE PASTERNAK</b><br>an INFINITO brand  |           |  |
| Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a><br>Phone: 1.866.727.8376   1.949.261.1920 |           | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5<br>SCALE: NONE<br>SHEET: 1 OF 1 |
| DESCRIPTION<br>N FEMALE BULKHEAD TO TNC MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-195 COAX WITH HEATSHRINK    |           | REV  |
| SIZE  | CAGE CODE | ITEM NO.   |
| A   | 53919     | PE3C5183-HS  |
| DRAWN BY  |           | REV  |
| DZINN   |           | A  |