



## TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using PE-P195 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

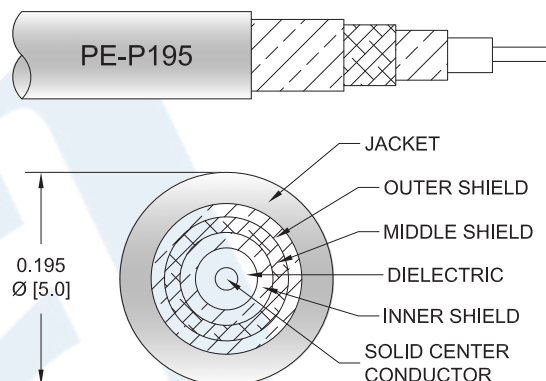
PE3W04559/HS-12

#### Configuration

- Connector 1: TNC Female Bulkhead
- Connector 2: TNC Male Right Angle
- Cable Type: PE-P195

#### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W04559/HS-12 TNC female bulkhead to TNC male right angle 12 inch cable using PE-P195 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 TNC to TNC cable assembly has a female to male gender configuration with 50 ohm flexible PE-P195 coax. The PE3W04559/HS-12 TNC female to TNC male cable assembly operates to 3 GHz. The right angle TNC interface on the PE-P195 cable allows for easier connections in tight spaces. Our RF cable assembly with TNC 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 triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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.

#### Electrical Specifications

| Description             | Minimum | Typical    | Maximum | Units        |
|-------------------------|---------|------------|---------|--------------|
| Frequency Range         | DC      |            | 3       | GHz          |
| VSWR                    |         |            | 1.5:1   |              |
| Velocity of Propagation |         | 70         |         | %            |
| Capacitance             |         | 29 [95.14] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |            | 500     | Vrms         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using PE-P195 Coax with HeatShrink PE3W04559/HS-12](#)



## TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using PE-P195 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

PE3W04559/HS-12

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 3    | GHz   |
| Insertion Loss (Max.) | 0.35 | 0.39 | 0.43 | 0.48 | 0.51 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 12 in [304.8 mm]   |
| Diameter | 0.689 in [17.5 mm] |

##### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | PE-P195                    |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Solid                      |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 3                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Aluminum Tape              |
| Shield Layer 3                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.195 in [4.95 mm]         |

|                              |                |
|------------------------------|----------------|
| Repeated Minimum Bend Radius | 1 in [25.4 mm] |
|------------------------------|----------------|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using PE-P195 Coax with HeatShrink PE3W04559/HS-12](#)



## TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using PE-P195 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

PE3W04559/HS-12

#### Connectors

| Description                        | Connector 1          | Connector 2          |
|------------------------------------|----------------------|----------------------|
| Type                               | TNC Female Bulkhead  | TNC Male Right Angle |
| Specification                      | MIL-STD-348A         | MIL-STD-348A         |
| Impedance                          | 50 Ohms              | 50 Ohms              |
| Contact Material and Plating       | Brass, Gold          | Brass, Gold          |
| Contact Plating Specification      | 30 $\mu$ in minimum  | 30 $\mu$ in minimum  |
| Dielectric Type                    | PTFE                 | PTFE                 |
| Body Material and Plating          | Brass, Nickel        | Brass, Nickel        |
| Body Plating Specification         | 100 $\mu$ in minimum | 100 $\mu$ in minimum |
| Coupling Nut Material and Plating  |                      | Brass, Nickel        |
| Coupling Nut Plating Specification |                      | 100 $\mu$ in minimum |

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", whichever is greater.

#### Environmental Specifications

##### Temperature

Operating Range -55 to +165 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: [TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using PE-P195 Coax with HeatShrink PE3W04559/HS-12](#)



## TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using PE-P195 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

PE3W04559/HS-12

#### How to Order

Part Number Configuration:

**PE3W04559/HS**

**- xx**

**uu**

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

Example: PE3W04559/HS-12 = 12 inches long cable  
PE3W04559/HS-100cm = 100 cm long cable

TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using PE-P195 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch Length Using PE-P195 Coax with HeatShrink PE3W04559/HS-12](https://www.pasternack.com/tnc-female-tnc-male-pe-p195-cable-assembly-pe3w04559-hs-12-p.aspx)

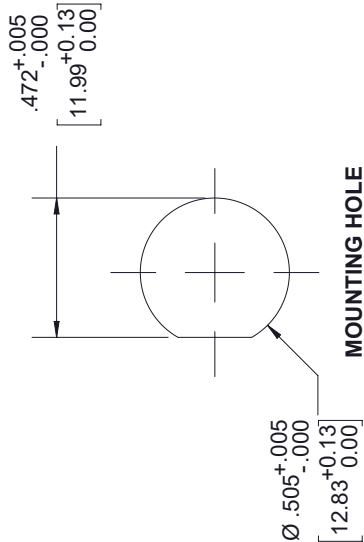
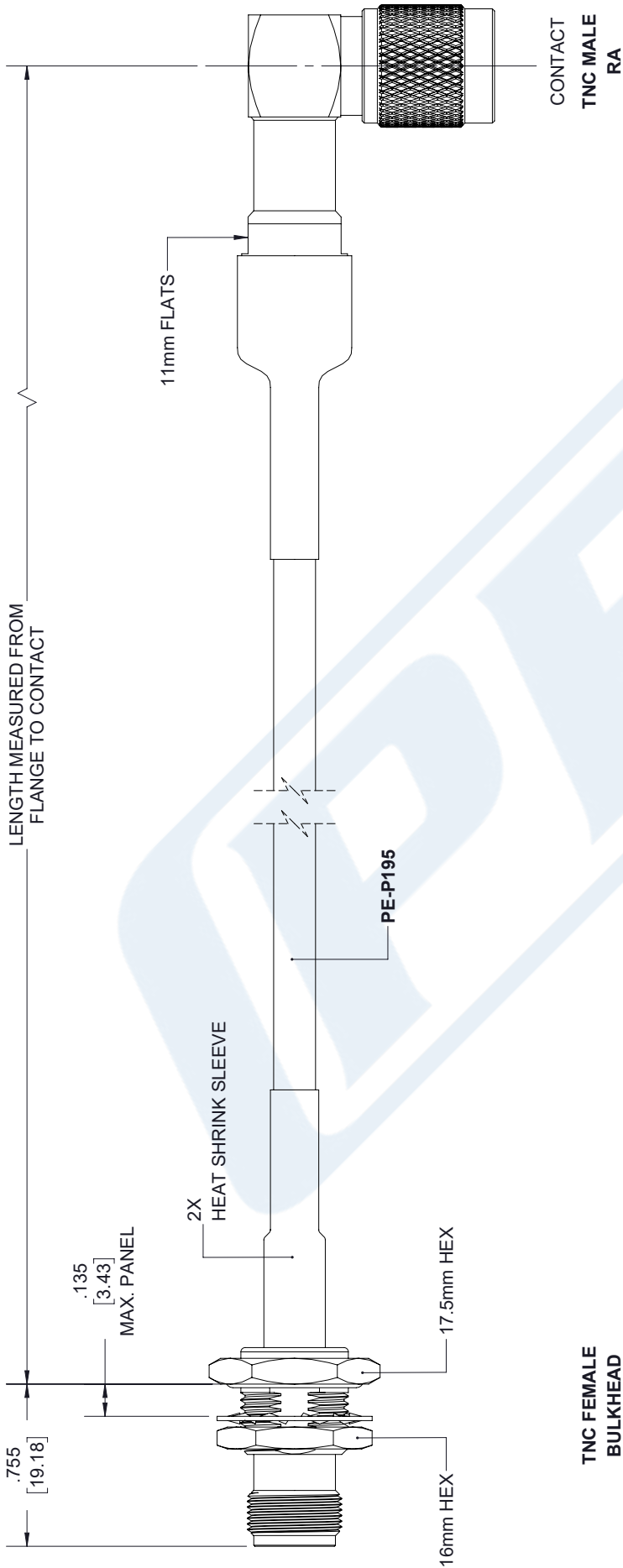
URL: <https://www.pasternack.com/tnc-female-tnc-male-pe-p195-cable-assembly-pe3w04559-hs-12-p.aspx>

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.

# PE3W04559/HS-12 CAD Drawing

TNC Female Bulkhead to TNC Male Right Angle Cable 12 Inch  
Length Using PE-P195 Coax with HeatShrink

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/23/19 | SELLIS   |



|                                                                                                                        |      |                                |  |                                                                                                                                                                                        |     |                           |      |
|------------------------------------------------------------------------------------------------------------------------|------|--------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------|------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS                       |      | TOLERANCES:                    |  | FRACTIONS                                                                                                                                                                              |     | ANGLES ± 1°               |      |
| X±                                                                                                                     | 2    | [5.08]                         |  | XX±                                                                                                                                                                                    | .01 | [.25]                     | ±132 |
| .XXX±                                                                                                                  | .005 | [.13]                          |  |                                                                                                                                                                                        |     |                           |      |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                                        |      |                                |  |                                                                                                                                                                                        |     |                           |      |
| THIRD-ANGLE PROJECTION                                                                                                 |      |                                |  |                                                                                                                                                                                        |     |                           |      |
| THE INFORMATION AND<br>DESIGN IN THIS DOCUMENT<br>IS THE PROPERTY OF<br>PASTERNAK CORPORATION.<br>ALL RIGHTS RESERVED. |      | PASTERNAK<br>an INFINITO brand |  | Pasternak Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com |     | SHEET 1 OF 1<br>SCALE N/A |      |
| SIZE A                                                                                                                 |      | CAGE 53919                     |  | DRAWN BY K.DANG                                                                                                                                                                        |     | PART NUMBER PE3W04559/HS  |      |
| REV A                                                                                                                  |      | REV A                          |  | REV A                                                                                                                                                                                  |     | REV A                     |      |

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT  
ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.