



TNC Female Bulkhead to SMP Female Right Angle  
Cable 100 CM Length Using PE-SR405FL Coax

RF Cable Assemblies Technical Data Sheet

PE3W10030-100CM

**Configuration**

- Connector 1: TNC Female Bulkhead
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR405FL

**Features**

- Max Frequency 6 GHz
- 69.5% Phase Velocity

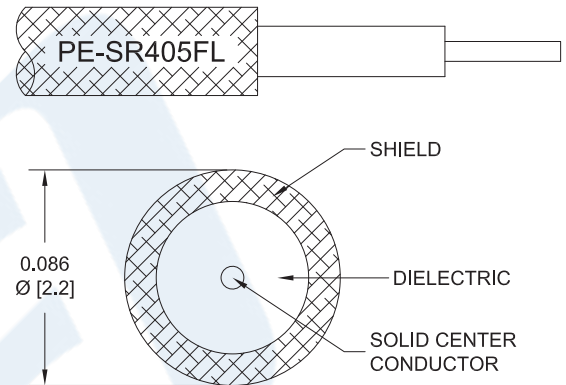
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W10030-100CM TNC female bulkhead to SMP female right angle 100 cm cable using PE-SR405FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack TNC to SMP cable assembly has a female to female gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W10030-100CM TNC female to SMP female cable assembly operates to 6 GHz. The right angle SMP interface on the PE-SR405FL 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.

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: [TNC Female Bulkhead to SMP Female Right Angle Cable 100 CM Length Using PE-SR405FL Coax PE3W10030-100CM](#)



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### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units                            |
|-------------------------------|---------|---------------|---------|----------------------------------|
| Frequency Range               | DC      |               | 6       | GHz                              |
| VSWR                          |         |               | 1.4:1   |                                  |
| Velocity of Propagation       |         | 69.5          |         | %                                |
| Capacitance                   |         | 29 [95.14]    |         | pF/ft [pF/m]                     |
| DC Resistance Inner Conductor |         | 65.7 [215.55] |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 10.2 [33.46]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 6    | GHz   |
| Insertion Loss (Typ.) | 0.52 | 0.75 | 0.99 | 1.39 | 2.23 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 39.37 in [100 cm]  |
| Diameter | 0.69 in [17.53 mm] |

#### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | PE-SR405FL                |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 1                         |
| Outer Conductor Material and Plating | Copper, Tin               |
| Repeated Minimum Bend Radius         | 0.78 in [19.81 mm]        |

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### Connectors

| Description                           | Connector 1                        | Connector 2            |
|---------------------------------------|------------------------------------|------------------------|
| Type                                  | TNC Female Bulkhead                | SMP Female Right Angle |
| Specification                         |                                    | MIL-STD-348A           |
| Impedance                             | 50 Ohms                            | 50 Ohms                |
| Contact Material and Plating          | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold |
| Contact Plating Specification         |                                    | MIL-DTL-45204          |
| Dielectric Type                       | PTFE                               | PTFE                   |
| Outer Conductor Material and Plating  |                                    | Beryllium Copper, Gold |
| Outer Conductor Plating Specification |                                    | MIL-DTL-45204          |
| Body Material and Plating             | Brass, Nickel                      | Beryllium Copper, Gold |
| Body Plating Specification            |                                    | MIL-DTL-45204          |

### Environmental Specifications

#### Temperature

Operating Range -55 to +165 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:

**PE3W10030**

- **xx**

**uu**

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

Example: PE3W10030-12 = 12 inches long cable  
PE3W10030-100cm = 100 cm long cable

TNC Female Bulkhead to SMP Female Right Angle Cable 100 CM Length Using PE-SR405FL Coax 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 SMP Female Right Angle Cable 100 CM Length Using PE-SR405FL Coax PE3W10030-100CM](https://www.pasternack.com/tnc-female-smp-female-pe-sr405fl-cable-assembly-pe3w10030-100cm-p.aspx)

URL: <https://www.pasternack.com/tnc-female-smp-female-pe-sr405fl-cable-assembly-pe3w10030-100cm-p.aspx>

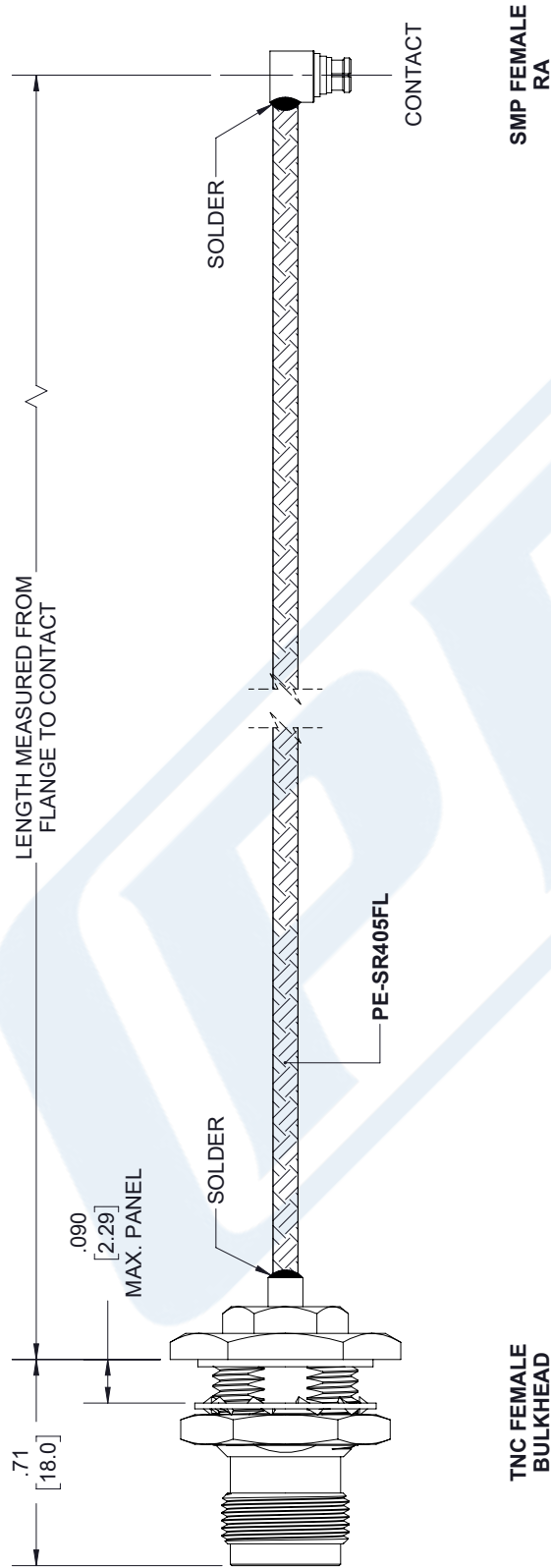
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PE3W10030-100CM CAD Drawing

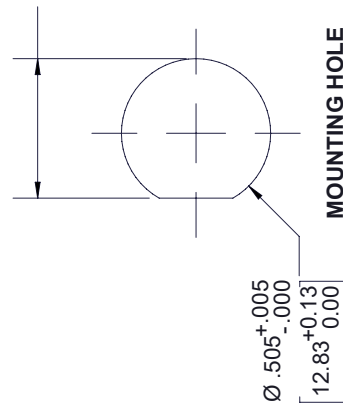
## TNC Female Bulkhead to SMP Female Right Angle Cable

### 100 CM Length Using PE-SR405FL Coax

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 4/14/2021 | SELLIS   |



$.472^{+.005}_{-.000}$   
[11.99 +0.13 / 0.00]



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ± .2 [5.08]  
 .XX = ± .02 [ .51]  
 .XXX = ± .005 [ .13]  
 ANGLES ± 1°  
 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% L / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITI brand

Pasternack Enterprises, Inc.  
P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: www.pasternack.com  
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1  
SCALE N/A

SIZE A CAGE CODE 53919 DRAWN BY K.DANG ITEM NO. PE3W10030 REV A