



## Reverse Polarity TNC Male to TNC Female Bulkhead Cable 36 Inch Length Using RG142 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

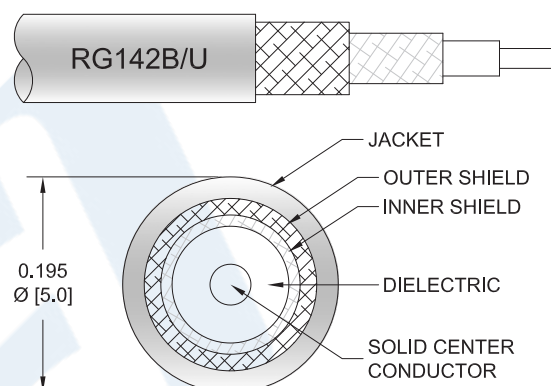
**PE39231/HS-36**

#### Configuration

- Connector 1: TNC Male Reverse Polarity
- Connector 2: TNC Female Bulkhead
- Cable Type: RG142

#### Features

- Max Frequency 4 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE39231/HS-36 reverse polarity TNC male to TNC female bulkhead 36 inch cable using RG142 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 reverse polarity TNC to TNC cable assembly has a male to female gender configuration with 50 ohm flexible RG142 coax. The PE39231/HS-36 reverse polarity TNC male to TNC female cable assembly operates to 4 GHz. 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 double 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity TNC Male to TNC Female Bulkhead Cable 36 Inch Length Using RG142 Coax with HeatShrink PE39231/HS-36](#)



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**Electrical Specifications**

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 4       | GHz          |
| VSWR                    |         |              | 1.45:1  |              |
| Velocity of Propagation |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 4    | GHz   |
| Insertion Loss (Max.) | 0.57 | 0.72 | 0.97 | 1.46 | 2.88 | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Length\* 36 in [914.4 mm]

**Cable**

Cable Type RG142  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 2  
Shield Layer 1 Silver Plated Copper Braid  
Shield Layer 2 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]

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#### Connectors

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

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

#### Plotted and Other Data

Notes:

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### RF Cable Assemblies Technical Data Sheet

**PE39231/HS-36**

#### How to Order

Part Number Configuration:

**PE39231/HS - xx**

**uu**

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

Example: PE39231/HS-12 = 12 inches long cable  
PE39231/HS-100cm = 100 cm long cable

Reverse Polarity TNC Male to TNC Female Bulkhead Cable 36 Inch Length Using RG142 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: [Reverse Polarity TNC Male to TNC Female Bulkhead Cable 36 Inch Length Using RG142 Coax with HeatShrink PE39231/HS-36](#)

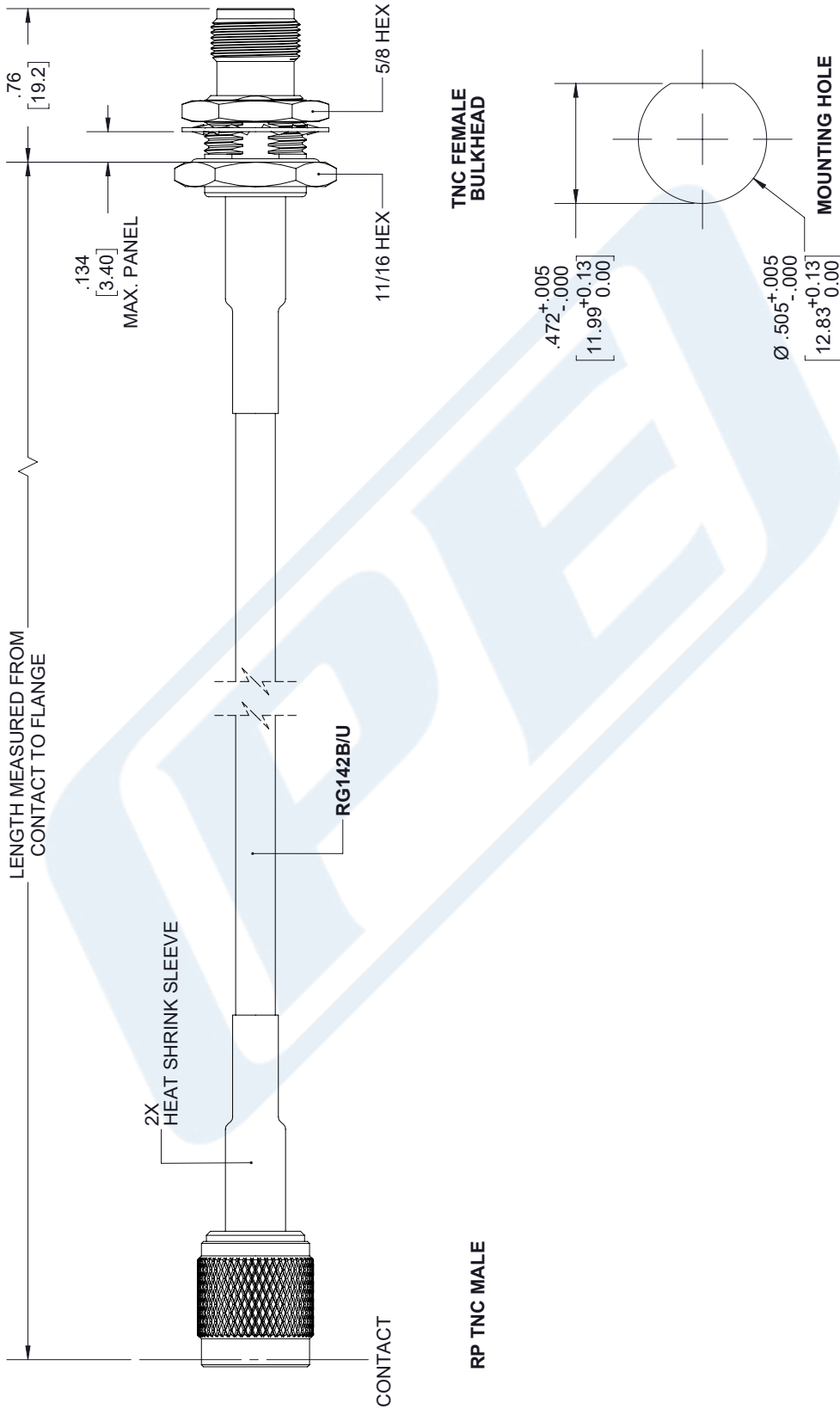
URL:

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.

# PE39231/HS-36 CAD Drawing

Reverse Polarity TNC Male to TNC Female Bulkhead Cable  
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| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 8/24/2020 | S.ELLIS  |



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

TOLERANCES:

|                                             |        |                              |        |
|---------------------------------------------|--------|------------------------------|--------|
| .X = ± .2                                   | [5.08] | FRACTIONS                    | ± 1/32 |
| .XX = ± .02                                 | [.51]  | ANGLES                       | ± 1°   |
| .XXX = ± .005                               | [.13]  | 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.

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|      |           |          |            |
|------|-----------|----------|------------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO.   |
| A    | 53919     | K.DANG   | PE39231/HS |

THIRD-ANGLE PROJECTION

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|-------|-----|----|---|
| SHEET | 1   | OF | 1 |
| SCALE | N/A |    |   |
| REV   | A   |    |   |

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