



TNC Female Bulkhead to SMA Male Right Angle Cable 48 Inch Length Using RG402 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10767-48

Configuration

- Connector 1: TNC Female Bulkhead
- Connector 2: SMA Male Right Angle
- Cable Type: RG402

Features

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10767-48 TNC female bulkhead to SMA male right angle 48 inch cable using RG402 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack TNC to SMA cable assembly has a female to male gender configuration with 50 ohm semi-rigid RG402 coax. The PE3W10767-48 TNC female to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interface on the RG402 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 SMA Male Right Angle Cable 48 Inch Length Using RG402 Coax PE3W10767-48](#)



TNC Female Bulkhead to SMA Male Right Angle Cable 48 Inch Length Using RG402 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10767-48

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 12.4 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69.5 | | % |
| Operating Voltage (AC) | | | 500 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 5,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-----|------|------|------|-------|
| Frequency | 0.5 | 1 | 2.5 | 5 | 12.4 | GHz |
| Insertion Loss (Typ.) | 0.56 | 0.7 | 0.95 | 1.38 | 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* | 48 in [121.92 cm] |
| Diameter | 0.75 in [19.05 mm] |

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | RG402 |
| 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 |
| Repeated Minimum Bend Radius | 0.25 in [6.35 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 SMA Male Right Angle Cable 48 Inch Length Using RG402 Coax PE3W10767-48](#)



TNC Female Bulkhead to SMA Male Right Angle
Cable 48 Inch Length Using RG402 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10767-48

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|----------------------------|-----------------------|
| Type | TNC Female Bulkhead | SMA Male Right Angle |
| Specification | MIL-STD-348 | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Gold | Brass, Gold |
| Contact Plating Specification | MIL-G-45204 | 50 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Passivated Stainless Steel | Stainless Steel, Gold |
| Body Plating Specification | QQ-P-35 | 30 µin minimum |
| Coupling Nut Material and Plating | | Brass, Nickel |
| Coupling Nut Plating Specification | | 100 µin minimum |
| Hex Size | | 5/16 inch |
| Torque | | 3 in-lbs [0.34 Nm] |

Environmental Specifications

Temperature

Operating Range -55 to +125 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 SMA Male Right Angle Cable 48 Inch Length Using RG402 Coax PE3W10767-48](#)



TNC Female Bulkhead to SMA Male Right Angle Cable 48 Inch Length Using RG402 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10767-48

How to Order

Part Number Configuration:

PE3W10767

- **xx**

uu

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

Example: PE3W10767-12 = 12 inches long cable
PE3W10767-100cm = 100 cm long cable

TNC Female Bulkhead to SMA Male Right Angle Cable 48 Inch Length Using RG402 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 SMA Male Right Angle Cable 48 Inch Length Using RG402 Coax PE3W10767-48](#)

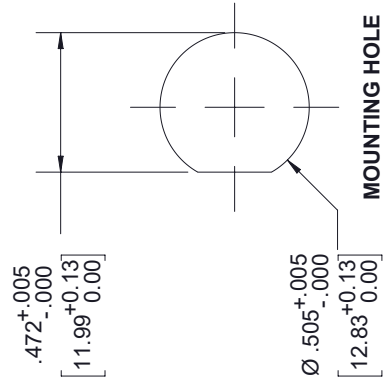
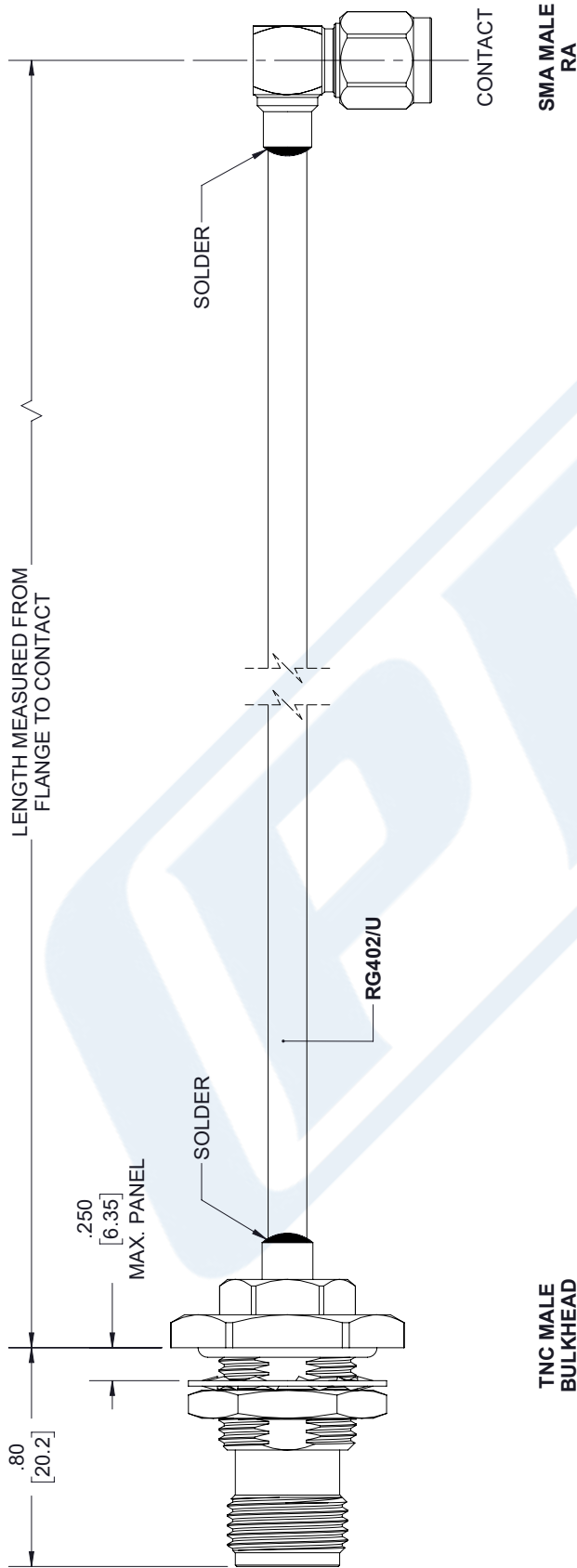
URL: <https://www.pasternack.com/tnc-female-sma-male-rg402u-cable-assembly-pe3w10767-48-p.aspx>

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.

PE3W10767-48 CAD Drawing

TNC Female Bulkhead to SMA Male Right Angle Cable 48 Inch Length Using RG402 Coax

| REVISIONS | | | |
|-----------|-----------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 4/15/2021 | SELLIS |



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

TOLERANCES:

| FRACCTIONS | ANGLES |
|----------------------|--------|
| .X = ± .2 [5.08] | ± 1/32 |
| .XX = ± .02 [.51] | ± 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.

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

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

REV A

ITEM NO. PE3W10767

DRAWN BY K.DANG

CAGE CODE A 53919

SIZE A