



## SMA Female Bulkhead to TNC Male Cable 100 cm Length Using RG400 Coax

### RF Cable Assemblies Technical Data Sheet

PE3W03497-100CM

#### Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: TNC Male
- Cable Type: RG400

#### Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W03497-100CM SMA female bulkhead to TNC male 100 cm cable using RG400 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 SMA to TNC cable assembly has a female to male gender configuration with 50 ohm flexible RG400 coax. The PE3W03497-100CM SMA female to TNC male cable assembly operates to 6 GHz. Our RF cable assembly with SMA 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		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: [SMA Female Bulkhead to TNC Male Cable 100 cm Length Using RG400 Coax PE3W03497-100CM](#)



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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	6	GHz
Insertion Loss (Max.)	0.5	0.69	0.86	1.19	1.48	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated loss of 0.2dB of connector loss.

#### Mechanical Specifications

##### Cable Assembly

Length*	39.37 in [100 cm]
Diameter	0.571 in [14.5 mm]

##### Cable

Cable Type	RG400
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, 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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## SMA Female Bulkhead to TNC Male Cable 100 cm Length Using RG400 Coax

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Female Bulkhead	TNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin 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:

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## SMA Female Bulkhead to TNC Male Cable 100 cm Length Using RG400 Coax

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PE3W03497-100CM

#### How to Order

Part Number Configuration:

**PE3W03497**

**- xx**

**uu**

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

Example: PE3W03497-12 = 12 inches long cable  
PE3W03497-100cm = 100 cm long cable

SMA Female Bulkhead to TNC Male Cable 100 cm Length Using RG400 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: [SMA Female Bulkhead to TNC Male Cable 100 cm Length Using RG400 Coax PE3W03497-100CM](https://www.pasternack.com/sma-female-tnc-male-rg400u-cable-assembly-pe3w03497-100cm-p.aspx)

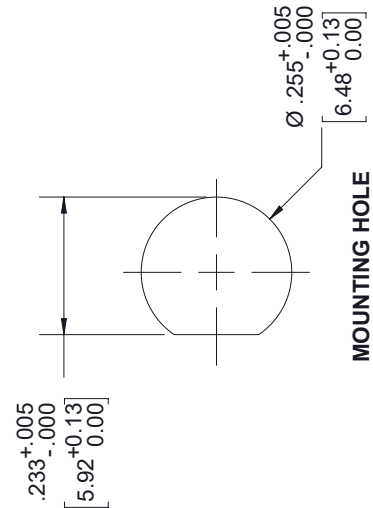
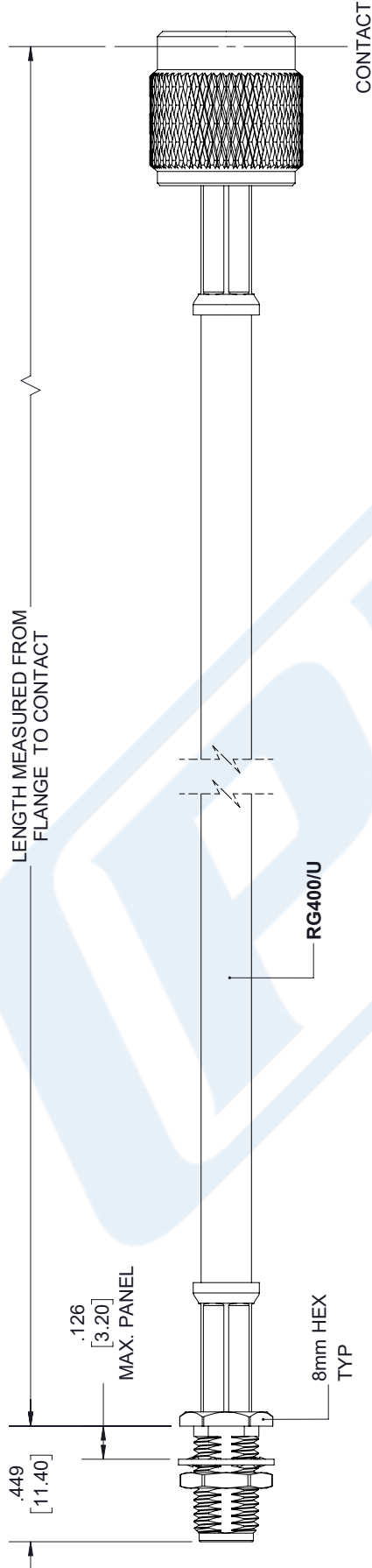
URL: <https://www.pasternack.com/sma-female-tnc-male-rg400u-cable-assembly-pe3w03497-100cm-p.aspx>

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# PE3W03497-100CM CAD Drawing

SMA Female Bulkhead to TNC Male Cable 100 cm Length Using RG400 Coax

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



<b>PE PASTERNAK</b> an INFINITE 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 www.pasternack.com   e-mail: sales@pasternack.com		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.
SHEET 1 OF 1		SCALE N/A
SIZE A		REV A
CAGE 53919		PART NUMBER PE3W03497
DRAWN BY K.DANG		REV

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