



# N Female Precision Connector Threaded Attachment for VNA Test Cable

## RF Connectors Technical Data Sheet

PE45502

### Configuration

- N Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: VNA Test Cable
- Precision Design

### Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.2:1
- Gold Plated Beryllium Copper Contact
- 50 [1.27]  $\mu\text{in.}$  [ $\mu\text{m}$ ] minimum contact plating

### Applications

- General Purpose Test
- Precision Test & Measurement
- Custom Cable Assemblies

### Description

Pasternack's PE45502 type N female connector with threaded attachment for VNA test cable is part of our full line of RF components available for same-day shipping. Our type N female connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.2:1.

Our type N female connector PE45502 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.2:1	
Return Loss			21	dB
Insertion Loss			0.21	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			1	mOhms
Outer Conductor DC Resistance			1	mOhms
RF Leakage	90			dB

### Mechanical Specifications

#### Size

Length	1.26 in [32 mm]
Width/Dia.	0.71 in [18.03 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Precision Connector Threaded Attachment for VNA Test Cable PE45502](#)



N Female Precision Connector Threaded Attachment for VNA Test Cable

RF Connectors  
Technical Data Sheet

PE45502

Weight 0.082 lbs [37.19 g]  
Mating Cycles 500 Cycles

**Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 [1.27] $\mu\text{in.}$ [ $\mu\text{m}$ ] minimum
Insulation	PPE	
Body	Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel	

Mechanical Specification Notes:  
Recommended torque: 2 Nm

**Environmental Specifications**

**Temperature**

Operating Range -40 to +85 deg C  
Humidity MIL-STD-202, Method 106  
Shock MIL-STD-202, Method 213, Condition I  
Vibration MIL-STD-202, Method 204, Condition D  
Salt Spray MIL-STD-202, Method 101, Condition B

**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: [N Female Precision Connector Threaded Attachment for VNA Test Cable PE45502](#)



## N Female Precision Connector Threaded Attachment for VNA Test Cable

### RF Connectors Technical Data Sheet

PE45502

N Female Precision Connector Threaded Attachment for VNA Test Cable 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: [N Female Precision Connector Threaded Attachment for VNA Test Cable PE45502](#)

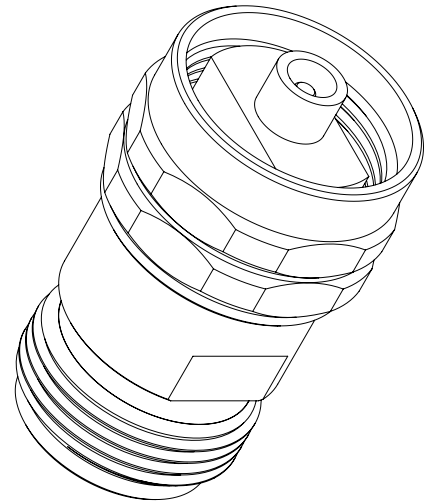
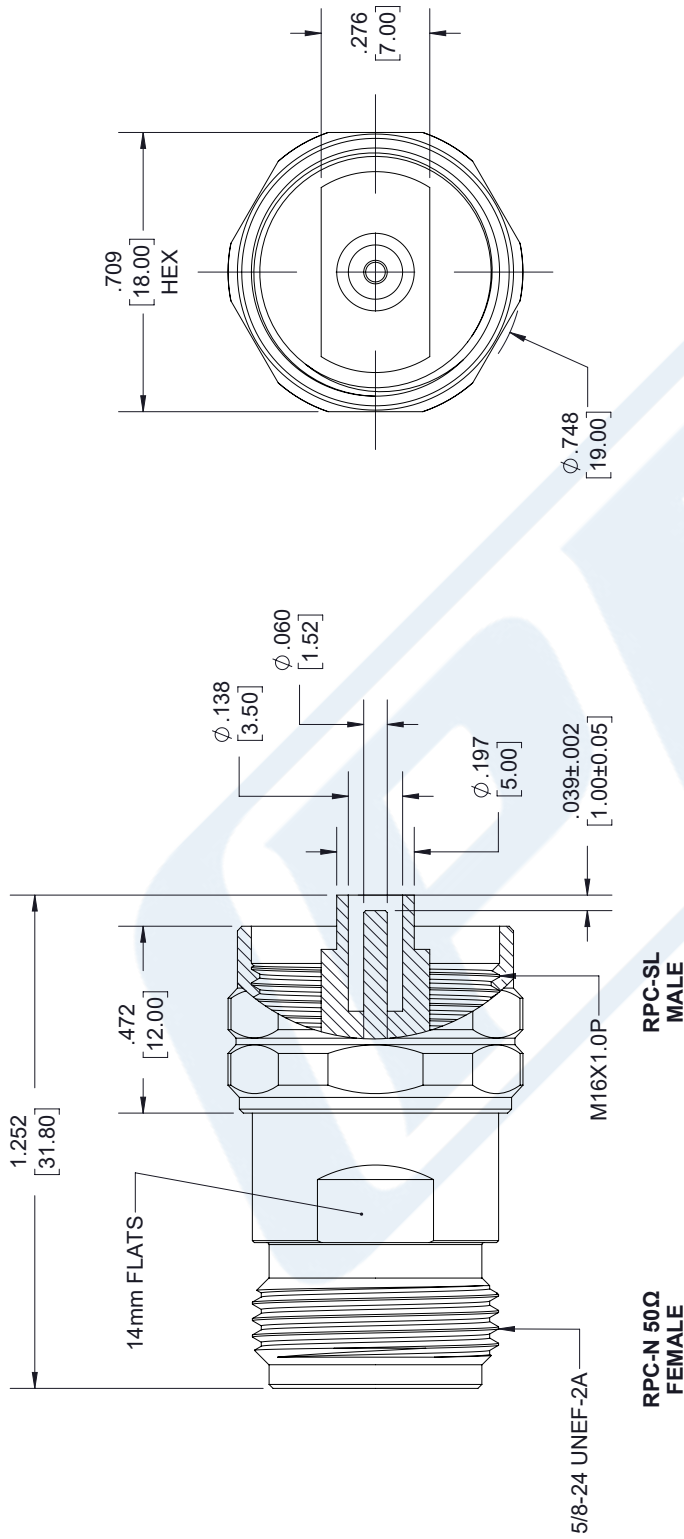
URL: <https://www.pasternack.com/n-female-vna-test-cable-connector-pe45502-p.aspx>

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.

# PE45502 CAD Drawing

## N Female Precision Connector Threaded Attachment for VNA Test Cable

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/04/19	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.

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

**PE PASTERNAK**  
an INFINITO 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

SIZE A CAGE CODE A 53919 DRAWN BY K. DANG PART NUMBER PE45502 REV A