

## **RF Cable Assemblies Technical Data Sheet**

### Configuration

- Connector 1: 2.4mm Male
- Connector 2: 2.4mm Male Right Angle
- Cable Type: PE-VNA-HF

### **Features**

- · Designed for use as VNA test port extenders
- · Highly flexible armored cable construction
- 1.30:1 VSWR to 50 GHz
- · Excellent amplitude and phase stability with flexure
- Non-conductive protective Nomex outer sleeve
- Each serialized assembly comes with test data
- In-stock and ready to ship same-day

### **Applications**

- Vector Network analyzer test port extenders
- Semiconductor probe testingPrecise bench-top testing
- Lab and production testing

#### Description

Pasternack high performance high flex VNA test cables are designed to provide customers repeatable and accurate VNA measurements. These Test cables have excellent electrical properties including low Insertion Loss, low VSWR and phase stability of +/- 6° with flexure. The braided stainless steel armoring provides a rugged, but flexible cable with a life exceeding 100,000 flex cycles. The rugged connectors provide up to 5,000 mating cycles when attached with proper care. The flexibility of these cables makes it easier and safer to test your Device Under Test (DUT). When used with the appropriate calibration kit, these test cables effectively extend the test port of the VNA allowing for accurate measurements of devices that cannot be directly connected to a network analyzer test port.

#### **Electrical Specifications**

Minimum	Typical	Maximum	Units
DC		50	GHz
		1.3:1	
	78		%
100			dB
	1.34 [4.4]		ns/ft [ns/m]
	25.9 [84.97]		pF/ft [pF/m]
		18	Watts
	6		Degrees
	DC	DC 78 100 1.34 [4.4] 25.9 [84.97]	DC 50 1.3:1 78 100 1.34 [4.4] 25.9 [84.97] 18

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.4mm Male to 2.4mm Male Right Angle Precision Cable Using High Flex VNA Test Coax, RoHS PE3TC0700

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



PE3TC0700





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**PE3TC0700** 

#### **F1** F2 F4 Description F3 F5 Units 2.5 5 10 20 50 GHz Frequency Insertion Loss (Max.) 0.48 1 1.65 dB/ft 0.35 0.68 [1.57] [2.23] [3.28] [5.41] [dB/m] [1.15] Power Handling (Max.) 18 Watts **Electrical Specification Notes:** Values at 25°C, sea level. **Mechanical Specifications Cable Assembly** Cable Cable Type **PE-VNA-HF** Impedance 50 Ohms Inner Conductor Type Solid

**Specifications by Frequency** 

Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Shield Layer 3 Jacket Diameter One Time Minimum Bend Radius Flat Plate Crush <b>Connectors</b>	Copper, Silver PTFE 3 Silver Plated Copper Tape Silver Plated Copper Braid Silver Plated Copper Braid 0.27 in [6.86 mm] 1 in [25.4 mm] 317 lbs/in [5.66 Kg/mm]	
Description	Connector 1	Connector 2
Туре	2.4mm Male	2.4mm Male Right Angle
Impedance	50 Ohms	50 Ohms
Content Material and Disting	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Material and Plating	Beryman Copper, Cold	- , ,
Dielectric Type	ULTEM	ULTEM
Dielectric Type	ULTEM	ULTEM
Dielectric Type Coupling Nut Material and Plating	ULTEM Passivated Stainless Steel	ULTEM Passivated Stainless Steel

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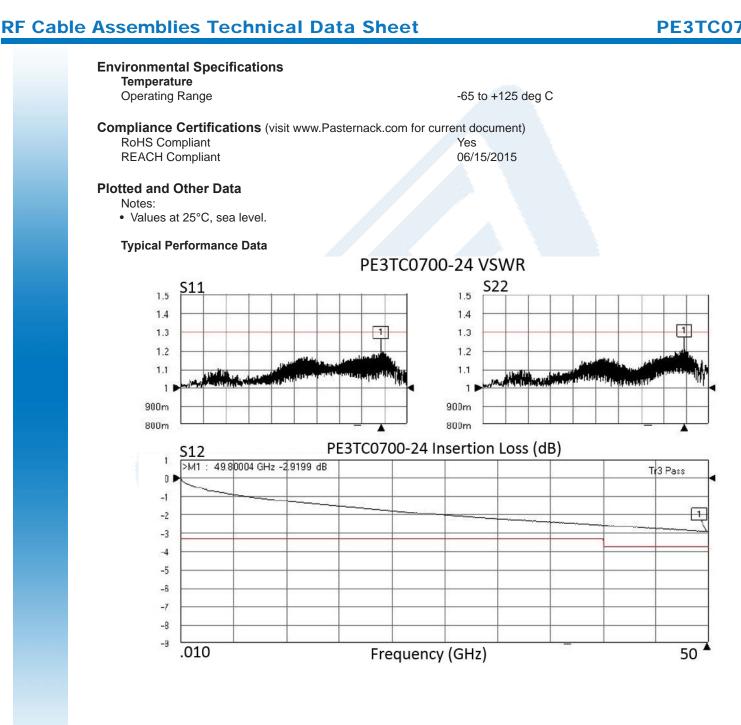
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### **PE3TC0700**

How to Order				
Part Numbe	r Configuration:	PE3TC0700	- xx u	Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number</blank>
Example:	PE3TC0700-12 = 12 inches PE3TC0700-100cm = 100 0			
Enterprises has	2.4mm Male Right Angle Precessame day shipment for dome availability and are part of the	stic and International ord	ers. Our RF, micr	ax, RoHS from Pasternack rowave and millimeter wave product
				nal part information including price, sing High Flex VNA Test Coax, RoH
URL: http://www.	.pasternack.com/2.4mm-male	e-2.4mm-male-vna-cable-	cable-assembly-	pe3tc0700-p.aspx
make modifications to as required. Unless o	o the part and/or the documentation c	of the part, in order to implement nominal. Pasternack does not n	improvements. Paste nake any representatio	part described herein. It may be necessary ernack reserves the right to make such change on or warranty regarding the suitability of the pa of any part or documentation.

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PE3TC0700 CAD Drawing

2.4mm Male to 2.4mm Male Right Angle Precision Cable Using High Flex VNA Test Coax, RoHS

