PASTERNACK®
THE ENGINEER'S RF SOURCE

2.4mm Male to 2.4mm Female Precision Cable 48 Inch Length Using High Flex VNA Test Coax, RoHS

RF Cable Assemblies Technical Data Sheet PE3TC0600-48

Configuration

- Connector 1: 2.4mm Male
- Connector 2: 2.4mm Female
- 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 testing
- Precise 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

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
VSWR			1.3:1	
Velocity of Propagation		78		%
RF Shielding	100			dB
Group Delay		1.34 [4.4]		ns/ft [ns/m]
Capacitance		25.9 [84.97]		pF/ft [pF/m]
Input Power (Average)			18	Watts
Phase Stability with Flexure		6		Degrees

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 Female Precision Cable 48 Inch Length Using High Flex VNA Test Coax, RoHS PE3TC0600-48

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

ISO 9001 : 2008 Registered

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	50	GHz
Insertion Loss (Max.)	1.8	2.32	3.12	4.4	7	dB
Power Handling (Max.)					18	Watts

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Length	48 in [121.92 cm]

Cable

Cable Type	PE-VNA-HF
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Shield Layer 3	Silver Plated Copper Braid
Jacket Diameter	0.27 in [6.86 mm]
One Time Minimum Bend Radius	1 in [25.4 mm]
Flat Plate Crush	317 lbs/in [5.66 Kg/mm]

Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Female
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	ULTEM	ULTEM
Outer Conductor Material and Plating		Passivated Stainless Steel
Coupling Nut Material and Plating	Passivated Stainless Steel	
Torque	8 in-lbs [0.9 Nm]	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

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Environmental Specifications

Temperature

Operating Range	-65 to +125 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

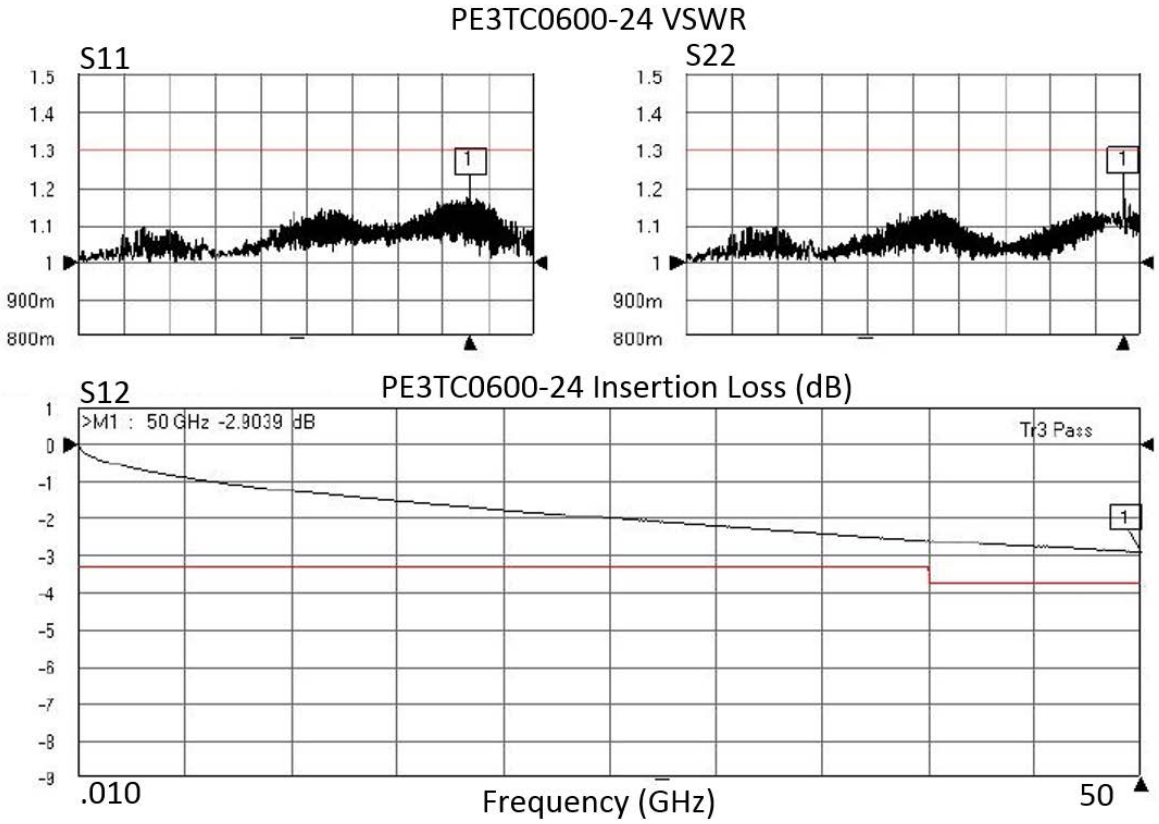
RoHS Compliant	Yes
REACH Compliant	06/15/2015

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data



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How to Order

Part Number Configuration: **PE3TC0600 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3TC0600 — Base Number

Example: PE3TC0600-12 = 12 inches long cable
PE3TC0600-100cm = 100 cm long cable

2.4mm Male to 2.4mm Female Precision Cable 48 Inch Length Using High Flex VNA Test Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/2.4mm-male-2.4mm-female-vna-cable-cable-assembly-pe3tc0600-48-p.aspx

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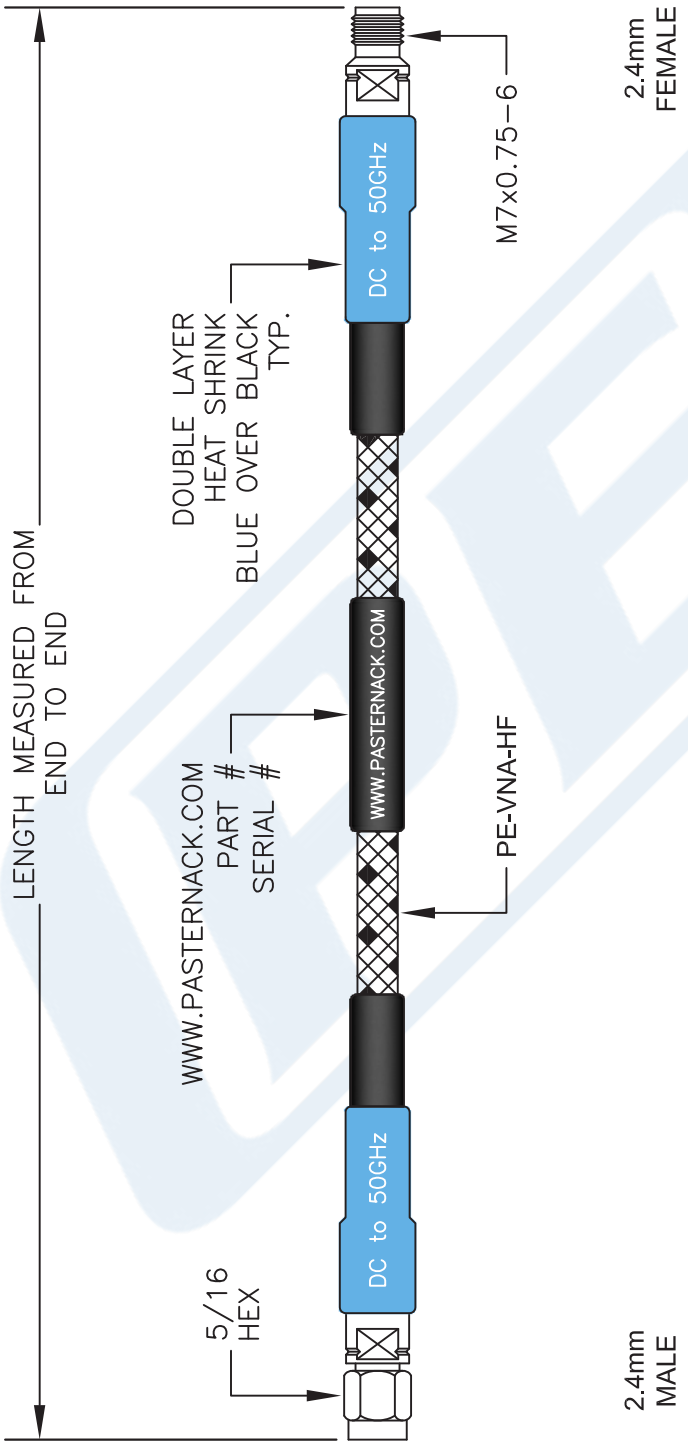
PE3TC0600-48 CAD Drawing

2.4mm Male to 2.4mm Female Precision Cable 48 Inch Length Using High Flex VNA Test Coax, RoHS



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS ± 2%

CAD FILE	SCALE	SIZE
100815	N/A	A

DWG TITLE: **PE3TC0600**

FSCM NO. 53919

2233

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