

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



RF Cable Assemblies Technical Data Sheet

PE3TC0600

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 Using High Flex VNA Test Coax, RoHS PE3TC0600

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

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Specifications by Frequency

F1	F2	F3	F4	F5	Units
2.5	5	10	20	50	GHz
0.35	0.48	0.68	1	1.65	dB/ft
[1.15]	[1.57]	[2.23]	[3.28]	[5.41]	[dB/m]
				18	Watts
	2.5 0.35	2.5 5 0.35 0.48	2.5 5 10 0.35 0.48 0.68	2.5 5 10 20 0.35 0.48 0.68 1	2.5 5 10 20 50 0.35 0.48 0.68 1 1.65 [1.15] [1.57] [2.23] [3.28] [5.41]

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

Mechanical Specifications

Cable Assembly

Cable

Cable Type Impedance

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

PE-VNA-HF 50 Ohms Solid Copper, Silver

PTFE

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]

Connectors

Description	Connector 1	Connector 2	
Туре	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

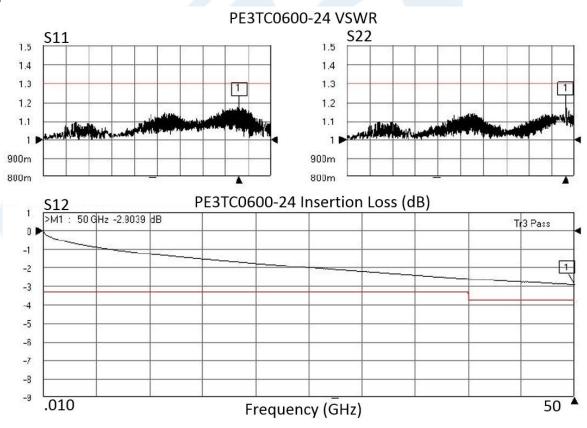
REACH Compliant 06/15/2015

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

Typical Performance Data



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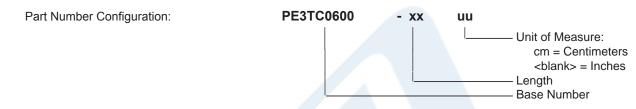
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How to Order



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

availability and are part of the broadest selection in the industry.

2.4mm Male to 2.4mm Female Precision Cable 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%

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

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PE3TC0600 CAD Drawing
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