



RF Cable Assemblies Technical Data Sheet

PE3VNA4001-60

Configuration

Connector 1: 2.92mm Male
Connector 2: 2.92mm Male
Cable Type: PE-VNA-R

Features

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Triple Shielded
- PET Jacket
- Designed for use as VNA Test Port extenders
- Excellent VSWR and Insertion Loss
- Stainless Steel Armoring provides crush resistance
- · Non Conductive protective outer sleeve
- · Torsion resistant connector heads
- Rugged connector interface with machined strain relief collar
- · Excellent Amplitude and Phase stability with flexure
- · Each Serialized assembly comes with test data
- · In stock and ready to ship

Applications

- General Purpose
- · Laboratory Use

- Vector Network Analyzer Test port extenders
- Precise Bench top testing
- Lab and Production testing

Description

Pasternack ruggedized VNA Test Cables are designed to provide customers with repeatable accurate VNA measurements. These Test cables have excellent electrical properties including low Insertion Loss, low VSWR and phase stability of +/- 5° with flexure. Torsion resistant connector heads are directly attached to stainless steel conduit style armoring providing a rugged design for up to 5,000 mattings cycles with proper care. The cable armoring enhances amplitude and phase stability by preventing stress due to over bending while maintaining the flexibility required for testing in a lab environment. 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: VNA Ruggedized Test Cable 2.92mm Male to 2.92mm Male 40GHz 60 Inch Length, RoHS PE3VNA4001-60

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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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR		750	1.38:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		26.8 [87.93]		pF/ft [pF/m]
Phase Stability with Flexure		5		Degrees

Specifications by Frequency

F1	F2	F3	F4	F5	Units
18	26	40			GHz
2.92	3.61	4.64			dB
		42			W
	18	18 26	18 26 40 2.92 3.61 4.64	18 26 40 2.92 3.61 4.64	18 26 40 2.92 3.61 4.64

Mechanical Specifications

Cable Assembly

Length* 60 in [152.4 cm]

Weight 0.7023 lbs [318.56 g]

Cable

Cable Type PE-VNA-R
Impedance 50 Ohms
Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver

Dielectric Type PTFE
Number of Shields 3
Shield Lover 1

Shield Layer 1 Silver Plated Copper Braid
Shield Layer 2 Silver Plated Copper Tape
Shield Layer 3 Silver Plated Copper Braid

Jacket Material PET

Jacket Diameter 0.43 in [10.92 mm]

One Time Minimum Bend Radius 3 in [76.2 mm]

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Connectors

Connector 1	Connector 2	
2.92mm Male	2.92mm Male	
50 Ohms	50 Ohms	
Beryllium Copper, Gold	Beryllium Copper, Gold	
Noryl	Noryl	
Passivated Stainless Steel	Passivated Stainless Steel	
Passivated Stainless Steel	Passivated Stainless Steel	
	2.92mm Male 50 Ohms Beryllium Copper, Gold Noryl Passivated Stainless Steel	

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Crush Resistance: 1,050 lbs.//Jacket Material is a PET weave over a spiral stainless steel sheath





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How to Order



Example: PE3VNA4001-12 = 12 inches long cable PE3VNA4001-100cm = 100 cm long cable

VNA Ruggedized Test Cable 2.92mm Male to 2.92mm Male 40GHz 60 Inch Length, RoHS 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.

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URL: https://www.pasternack.com/2.92mm-male-2.92mm-male-vna-cable-cable-assembly-pe3vna4001-60-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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PE3VNA4001-60 CAD DrawingVNA Ruggedized Test Cable 2.92mm Male to 2.92mm Male 40GHz 60 Inch Length, RoHS

