

RF Cable Assemblies Technical Data Sheet

Configuration

- Connector 1: 3.5mm Male
- Connector 2: 3.5mm Female
- Cable Type: PE-VNA-R

Features

- Max Frequency 26.5 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 +/- 3° 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 3.5mm Male to 3.5mm Female 26.5GHz, RoHS PE3VNA2604

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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PE3VNA2604





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PE3VNA2604

Electrical Specifications

Description	Minimum	Typical	Maximum	Units GHz
Frequency Range	DC		26.5	
VSWR			1.3:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Phase Stability with Flexure		3		Degrees

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	12	18	26.5			GHz
Insertion Loss (Max.)	0.41	0.52	0.64			dB/ft
	1.35	1.71	2.1			dB/m
VSWR (Max.)	1.25:1	1.25:1	1.25:1			
Power Handling (Max.)			65			W

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 Material Jacket Diameter PE-VNA-R 50 Ohms Solid Copper, Silver PTFE 3 Silver Plated Copper Braid Silver Plated Copper Tape Silver Plated Copper Braid PET 0.43 in [10.92 mm]

One Time Minimum Bend Radius

4 in [101.6 mm]

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Connectors

Description	Connector 1	Connector 2 3.5mm Female	
Туре	3.5mm Male		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Dielectric Type	PCTFE	PCTFE	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material and Plating	Passivated Stainless Steel		

Mechanical Specification Notes:

*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

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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How to Order **PE3VNA2604** Part Number Configuration: - XX uu - Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** Example: PE3VNA2604-12 = 12 inches long cable PE3VNA2604-100cm = 100 cm long cable VNA Ruggedized Test Cable 3.5mm Male to 3.5mm Female 26.5GHz, 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. 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 3.5mm Male to 3.5mm Female 26.5GHz, RoHS PE3VNA2604 URL: https://www.pasternack.com/3.5mm-male-3.5mm-female-vna-cable-cable-assembly-pe3vna2604-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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PE3VNA2604 CAD Drawing VNA Ruggedized Test Cable 3.5mm Male to 3.5mm Female 26.5GHz, RoHS

