

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 27 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 27GHz 36 Inch Length, RoHS PE3VNA2604-36

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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PE3VNA2604-36





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Electrical Specifications

DC			
		27	GHz
		1.3:1	
	70		%
90			dB
	29.4 [96.46]		pF/ft [pF/m]
	3		Degrees
	90	90 29.4 [96.46]	70 90 29.4 [96.46]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	12	18	26.5			GHz
Insertion Loss (Max.)	1.5	1.88	2.36			dB
Power Handling (Max.)			65			W

Mechanical Specifications

Cable Assembly Length*	36 in [914.4 mm]
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	PE-VNA-R 50 Ohms Solid Copper, Silver PTFE 3 Silver Plated Copper Braid Silver Plated Copper Tape Silver Plated Copper Braid
Jacket Material Jacket Diameter One Time Minimum Bend Radius	PET 0.43 in [10.92 mm] 4 in [101.6 mm]

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Connectors

Description	Connector 1	Connector 2
Туре	3.5mm Male	3.5mm Female
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PCTFE	PCTFE
Outer Conductor Material and Plating		Passivated Stainless Steel
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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Part Number Co	onfiguration:	PE3VNA2604	- xx	uu	
					— Unit of Measure: cm = Centimeters <blank> = Inches — Length</blank>
					— Base Number
	E3VNA2604-12 = 12 incl E3VNA2604-100cm = 10				
has same day shipm	ent for domestic and Int		, microwave a		m Pasternack Enterprises ter wave products maintain
		in "SEARCH" on website; d Test Cable 3.5mm Male			t information including price Iz 36 Inch Length, RoHS
URL: https://www.pa	sternack.com/3.5mm-m	ale-3.5mm-female-vna-ca	ble-cable-ass	embly-pe3	vna2604-36-p.aspx
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PE3VNA2604-36 CAD Drawing VNA Ruggedized Test Cable 3.5mm Male to 3.5mm Female 27GHz 36 Inch Length, RoHS

