

RF Cable Assemblies Technical Data Sheet

Configuration

- Connector 1: 3.5mm Male
- Connector 2: 3.5mm Male
- 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 Male 27GHz 36 Inch Length, RoHS PE-3VNA2603-36

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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PE3VNA2603-36





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units GHz
Frequency Range	DC		27	
VSWR			1.25:1	
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

F1	F2	F3	F4	F5	Units
12	18	26.5			GHz
1.5	1.88	2.36			dB
		65			W
	12	12 18	12 18 26.5 1.5 1.88 2.36	12 18 26.5 1.5 1.88 2.36	12 18 26.5 1.5 1.88 2.36

Mechanical Specifications

Cable Assembly Length*	36 in [914.4 mm]
Weight	0.485 lbs [219.99 g]
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 Male	
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	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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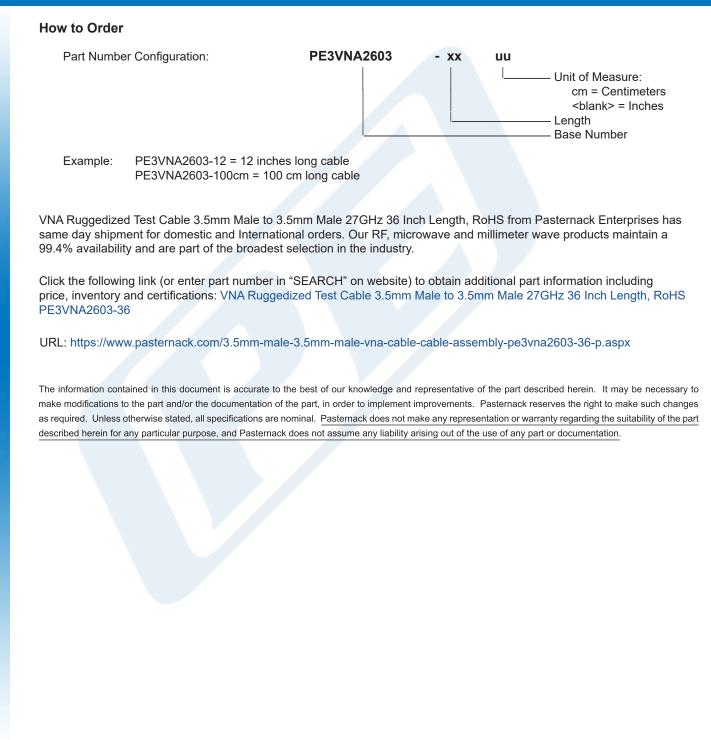
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PE3VNA2603-36 CAD Drawing VNA Ruggedized Test Cable 3.5mm Male to 3.5mm Male 27GHz 36 Inch Length, RoHS

