



VNA Ruggedized Test Cable 3.5mm Male to 3.5mm
Male 26.5GHz 24 Inch Length, RoHS

RF Cable Assemblies Technical Data Sheet

PE3VNA2603-24

Configuration

- Connector 1: 3.5mm Male
- Connector 2: 3.5mm Male
- 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 Male 26.5 GHz 24 Inch Length, RoHS PE3VNA2603-24](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
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

Description	F1	F2	F3	F4	F5	Units
Frequency	12	18	26.5			GHz
Insertion Loss (Max.)	1.08	1.36	1.71			dB
VSWR (Max.)	1.25:1	1.25:1	1.25:1			
Power Handling (Max.)			65			W

Mechanical Specifications

Cable Assembly

Length*	24 in [609.6 mm]
Weight	0.379 lbs [171.91 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 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	4 in [101.6 mm]

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Connectors

Description	Connector 1	Connector 2
Type	3.5mm Male	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 $\pm 3/8"$, 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

Part Number Configuration:

PE3VNA2603

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3VNA2603-12 = 12 inches long cable
PE3VNA2603-100cm = 100 cm long cable

VNA Ruggedized Test Cable 3.5mm Male to 3.5mm Male 26.5GHz 24 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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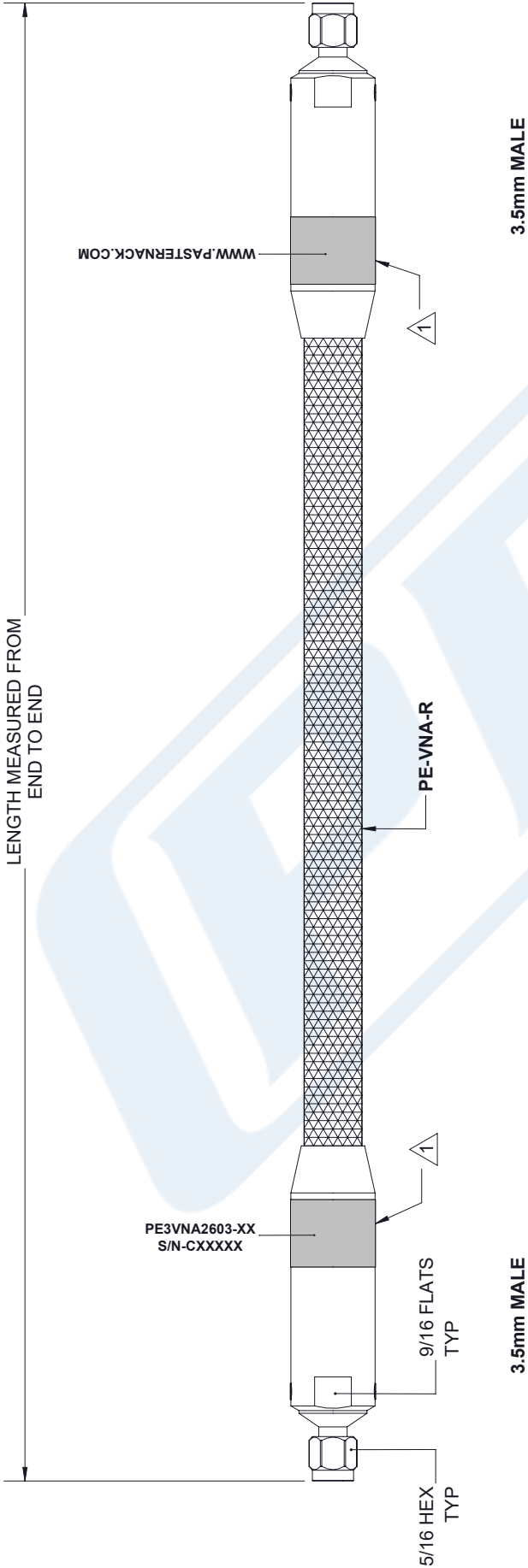
URL: <https://www.pasternack.com/3.5mm-male-3.5mm-male-vna-cable-cable-assembly-pe3vna2603-24-p.aspx>

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PE3VNA2603-24 CAD Drawing

VNA Ruggedized Test Cable 3.5mm Male to 3.5mm Male 26.5GHz 24 Inch Length, RoHS

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/26/19	SELLIS



- NOTES:
1. BLACK LETTERS ON SILVER LABEL.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2	[5.08]
.XX±.01	[.25]
.XXX±.005	[.13]
ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

PE PASTERNAK an INFINITI brand	
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SIZE	CAGE
A	53919
DRAWN BY	K.DANG
PART NUMBER	PE3VNA2603
REV	A

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SHEET	1 OF 1
SCALE	N/A

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