



VNA Ruggedized Test Cable 3.5mm NMD Female
to 3.5mm Male 27GHz 36 Inch Length, RoHS

RF Cable Assemblies Technical Data Sheet

PE3VNA2607-36

Configuration

- Connector 1: 3.5mm NMD Female
- 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 $\pm 3^\circ$ with flexure. Torsion resistant connector heads are directly attached to stainless steel conduit style armoring providing a rugged design for up to 5,000 matings 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 NMD Female to 3.5mm Male 27GHz 36 Inch Length, RoHS PE3VNA2607-36](#)



VNA Ruggedized Test Cable 3.5mm NMD Female
to 3.5mm Male 27GHz 36 Inch Length, RoHS

RF Cable Assemblies Technical Data Sheet

PE3VNA2607-36

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		27	GHz
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.)	1.5	1.88	2.36			dB
Power Handling (Max.)			65			W

Mechanical Specifications

Cable Assembly

Length*	36 in [914.4 mm]
Weight	0.54 lbs [244.94 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]

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 NMD Female to 3.5mm Male 27GHz 36 Inch Length, RoHS PE3VNA2607-36](#)



VNA Ruggedized Test Cable 3.5mm NMD Female
to 3.5mm Male 27GHz 36 Inch Length, RoHS

RF Cable Assemblies Technical Data Sheet

PE3VNA2607-36

Connectors

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

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 NMD Female to 3.5mm Male 27GHz 36 Inch Length, RoHS PE3VNA2607-36](#)



VNA Ruggedized Test Cable 3.5mm NMD Female
to 3.5mm Male 27GHz 36 Inch Length, RoHS

RF Cable Assemblies Technical Data Sheet

PE3VNA2607-36

How to Order

Part Number Configuration:

PE3VNA2607

- **xx**

uu

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

Example: PE3VNA2607-12 = 12 inches long cable
PE3VNA2607-100cm = 100 cm long cable

VNA Ruggedized Test Cable 3.5mm NMD Female to 3.5mm Male 27GHz 36 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.

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 NMD Female to 3.5mm Male 27GHz 36 Inch Length, RoHS PE3VNA2607-36](#)

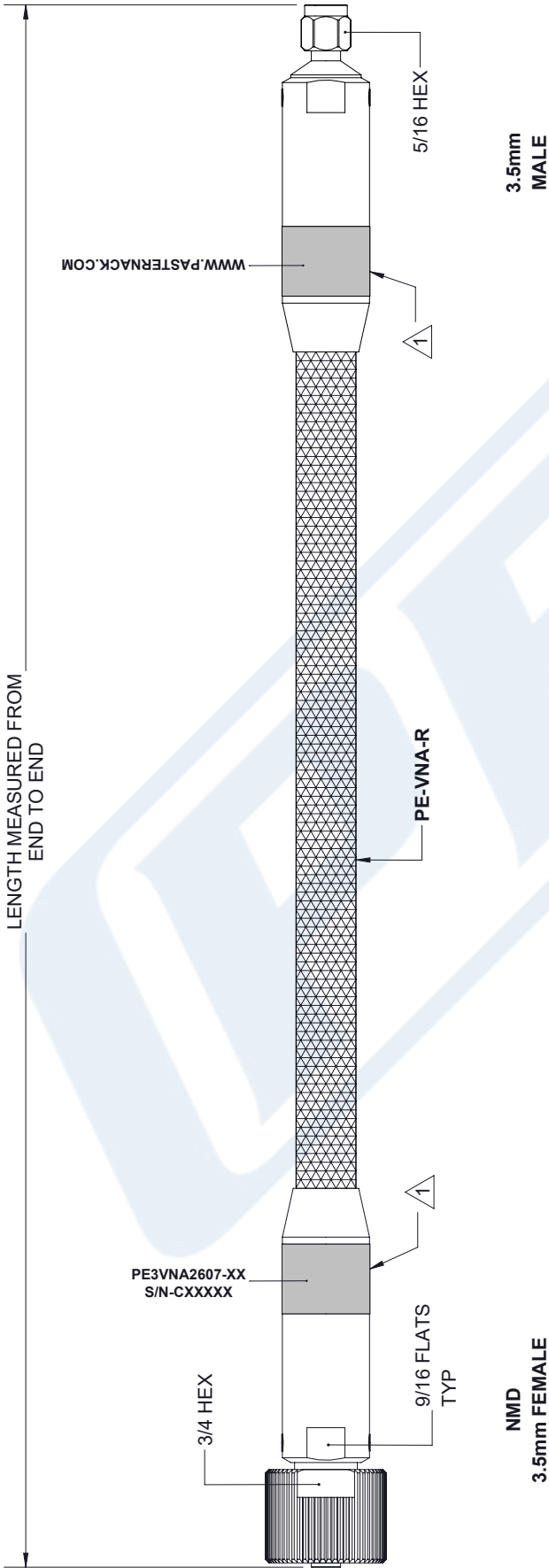
URL: <https://www.pasternack.com/3.5mm-nmd-female-3.5mm-male-vna-cable-cable-assembly-pe3vna2607-36-p.aspx>

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.

PE3VNA2607-36 CAD Drawing

VNA Ruggedized Test Cable 3.5mm NMD Female to
3.5mm Male 27GHz 36 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]	±.132
.XX±.01 [.25]	±.132
.XXX±.005 [.13]	±.132
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

PE PASTERNAK an INFINITI brand	
Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com	
SIZE	CAGE
A	53919
DRAWN BY	K.DANG
PART NUMBER	PE3VNA2607
REV	A

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.	
SHEET	1 OF 1
SCALE	N/A

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT
ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.