



RF Cable Assemblies - PE3VNA1802-24

Configuration

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

Features

- 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

- 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 +/- 2° 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.25:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		pF/ft [pF/m]		
Phase Stability with Flexure		±2		Degrees

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMA Female Cable 24 Length Using Ruggedized VNA Test Coax, RoHS PE3VNA1802-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451





Specifications by Frequency

RF Cable Assemblies - PE3VNA1802-24

Frequency			F3	F4	F5	Units
. ,	6	12	18			GHz
Insertion Loss (Max.)	0.86	1.3	1.66			dB
VSWR (Max.)	1.25:1	1.25:1	1.25:1			
Power Handling (Max.)			88			Watts
hanical Specificatio	ns					
Cable Assembly Length		2	24 in [609.6 mn	n]		
One Time Minimum Bend Radius			4	in [101.6 mm]		
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Materia Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Shield Layer 3 Jacket Material	al and Plating		5 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	PE-VNA-R 50 Ohms Solid Copper, Silver PTFE Silver Plated Co Silver Plated Co Silver Plated Co PET 0.43 in [10.92 r	opper Tape opper Braid	

Connector 1	Connector 2		
SMA Male	SMA Female		
50 Ohms	50 Ohms		
Standard	Standard		
Beryllium Copper, Gold	Beryllium Copper, Gold		
PTFE	PTFE		
Passivated Stainless Steel			
Passivated Stainless Steel	Passivated Stainless Steel		
	SMA Male 50 Ohms Standard Beryllium Copper, Gold PTFE Passivated Stainless Steel		

Mechanical Specification Notes: Crush Resistance: 1,050 lbs.

Jacket Material is a PET weave over a spiral stainless steel sheath

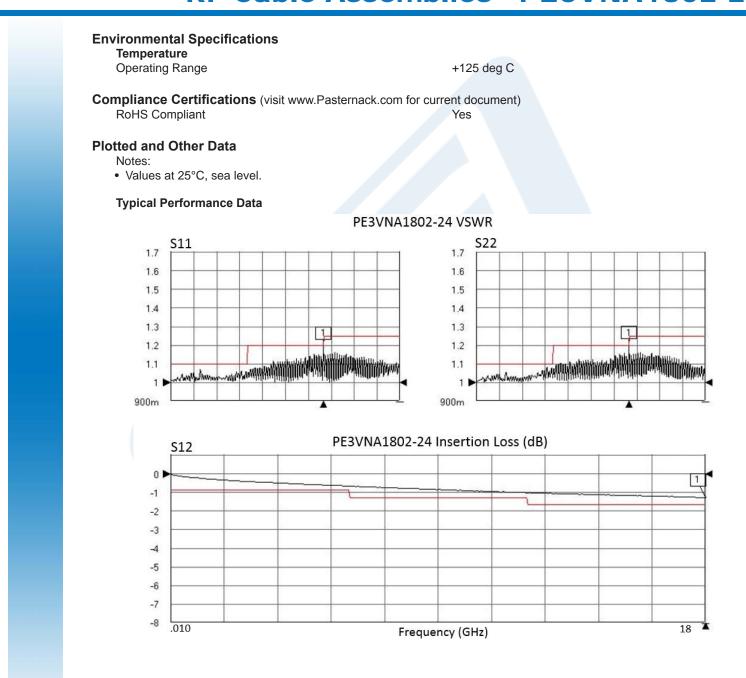
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMA Female Cable 24 Length Using Ruggedized VNA Test Coax, RoHS PE3VNA1802-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451





RF Cable Assemblies - PE3VNA1802-24



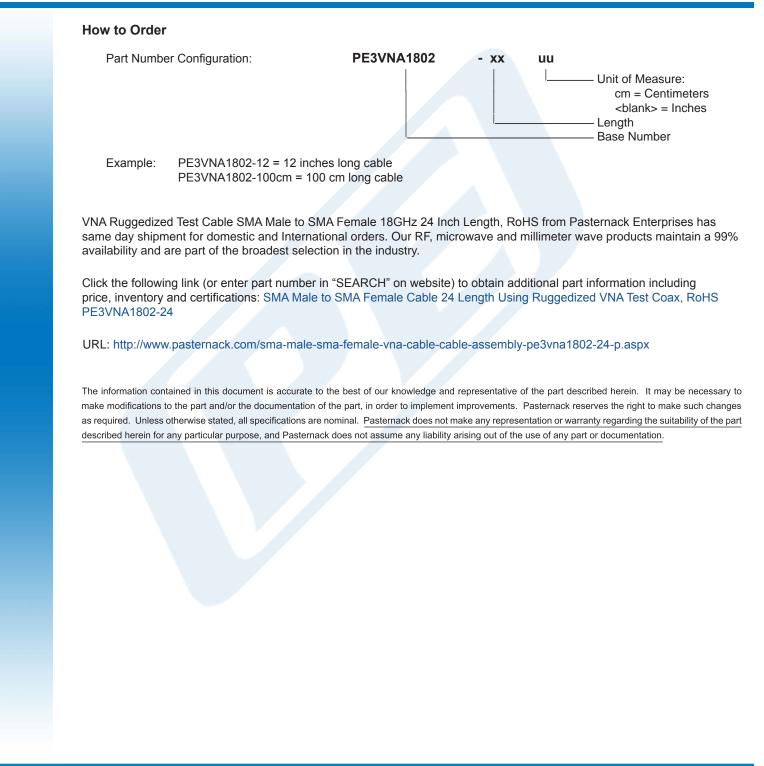
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMA Female Cable 24 Length Using Ruggedized VNA Test Coax, RoHS PE3VNA1802-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451





RF Cable Assemblies - PE3VNA1802-24



Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

PE3VNA1802-24 CAD Drawing VNA Ruggedized Test Cable SMA Male to SMA Female 18GHz 24 Inch Length, RoHS

