

2.4mm NMD Female to 2.4mm Male Precision Cable 24 Inch Length Using High Flex VNA Test Coax

RF Cable Assemblies Technical Data Sheet

Configuration

- Connector 1: 2.4mm NMD Female
- Connector 2: 2.4mm Male
- Cable Type: PE-VNA-HF

Features

- Max Frequency 50 GHz
- Shielding Effectivity > 100 dB
- 78% Phase Velocity
- Triple Shielded
- Designed for use as VNA test port extenders
- Highly flexible armored cable construction
- 1.40:1 VSWR to 50 GHz
- · Excellent amplitude and phase stability with flexure
- Non-conductive protective Nomex outer sleeve
- · In-stock and ready to ship same-day

Applications

- General Purpose
- Laboratory Use

 Vector Network analyzer test port extenders

Semiconductor probe testing

- Precise bench-top testing
- Lab and production testing

Description

Pasternack's PE3TC0660-24 2.4mm NMD female to 2.4mm male 24 inch cable using high flex VNA test coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack 2.4mm NMD to 2.4mm cable assembly has a female to male gender configuration with 50 ohm flexible PE-VNA-HF coax. The PE3TC0660-24 2.4mm NMD female to 2.4mm male cable assembly operates to 50 GHz. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 100 dB. Pasternack high performance high flex VNA test cables are designed to provide customers repeatable and accurate VNA measurements. These Test cables have excellent electrical properties including low Insertion Loss, low VSWR and phase stability of +/- 6° with flexure. The braided stainless steel armoring provides a rugged, but flexible cable with a life exceeding 100,000 flex cycles. The rugged connectors provide up to 5,000 mating cycles when attached with proper care. The flexibility of these cables makes it easier and safer to test your Device Under Test (DUT). 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.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.4mm NMD Female to 2.4mm Male Precision Cable 24 Inch Length Using High Flex VNA Test Coax PE3TC0660-24

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

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PE3TC0660-24



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
VSWR			1.4:1	
Velocity of Propagation		78		%
RF Shielding	100			dB
Group Delay		1.34 [4.4]		ns/ft [ns/m]
Capacitance		25.9 [84.97]		pF/ft [pF/m]
Input Power (Average)			18	Watts
Phase Stability with Flexure		6		Degrees
Amplitude Stability with Flexure		0.1		dB

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50					GHz
Insertion Loss (Max.)	4					dB

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly Length*

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 Diameter

One Time Minimum Bend Radius Flat Plate Crush

24 in [609.6 mm]

PE-VNA-HF 50 Ohms Solid Copper, Silver PTFE 3 Silver Plated Copper Tape Silver Plated Copper Braid Silver Plated Copper Braid 0.27 in [6.86 mm]

1 in [25.4 mm] 317 lbs/in [5.66 Kg/mm]

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PE3TC0660-24

Connectors

Description	Connector 1	Connector 2
Туре	2.4mm NMD Female	2.4mm Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	ULTEM	ULTEM
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	Passivated Stainless Steel
Torque		8 in-lbs [0.9 Nm]

Environmental Specifications

Temperature Operating Range

-65 to +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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PE3TC0660-24

Part Number	r Configuration:	PE3TC0660	- xx	uu	
	Configuration.				—— Unit of Measure: cm = Centimeters <blank> = Inches</blank>
					Length Base Number
Example:	PE3TC0660-12 = 12 inch PE3TC0660-100cm = 10				
Enterprises has s	same day shipment for dor	sion Cable 24 Inch Length U mestic and International orde of the broadest selection in th	ers. Our RF, r		
	rtifications: 2.4mm NMD Fe	er in "SEARCH" on website) emale to 2.4mm Male Precis			
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URL: https://www	v.pasternack.com/2.4mm-r	nmd-female-2.4mm-male-vn	a-cable-cable	e-assemb	bly-pe3tc0660-24-p.aspx
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