

Vector Network Analyzer (VNA) Ruggedized 40 GHz Test Cable 2.92mm NMD Female to 2.92mm Male

Fairview's high performance precision VNA test cables are designed to provide highly accurate repeatable test results. These rugged VNA test cables have excellent insertion loss, low VSWR and +/- 5° of phase stability with flexure. The precision stainless steel connectors and spiral stainless steel armoring are designed to limit torsional twist when the cables are flexed. These VNA test cables have a 5,000 mating cycle life when mated with proper care. The cable armoring prevents stress due to over bending and enhances amplitude and phase stability, while maintaining the flexibility required in a test environment. When properly calibrated, these test cables effectively extend the VNA test port to the terminating connector of the cable assembly allowing for accurate measurement of devices that cannot be directly connected to a network analyzer test port.

Electrical Specifications

Description	Min	Ту	p Max	Units
Frequency Range	DC		40	GHz
VSWR			1.38:1	
Velocity of Propagation		7	D	%
RF Shielding	90			dB
Capacitance		26.8 [8	37.93]	pF/ft [pF/m]
Phase Stability with Flex	ure	±	5	Degrees

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	18	26	40			GHz
Insertion Loss (Max.)	0.68	0.835	1.065			dB/ft
	2.23	2.74	3.49			dB/m
Power Handling (Max.)			42			W

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 Material Jacket Diameter

One Time Minimum Bend Radius

0 in [0 mm]

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]

3 in [76.2 mm]





Configuration:

- 2.92mm NMD Female
- 2.92mm Male
- VNA-R

Features:

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Triple Shielded
- PET Jacket
- VNA Test Cables Extend VNA Test Ports
- Low VSWR and Low Insertion Loss
- Crush resistant stainless steel cable armor
- Flexible PET protective sleeve
- Connector resist twisting during flexure
- Rugged connector attachment
- Highly stable +/- 5° of phase change under flexure
- Serialized test data provided
- Same day shipment standard length assemblies

Applications:

- General Purpose
- Test & Measurement
- Laboratory Use
- VNA Test applications
- Production floor testing
- Precision lab testing

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Connectors

Description	Connector 1	Connector 2	
Туре	2.92mm NMD Female	2.92mm Male	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Dielectric Type	Noryl	Noryl	
Outer Cond Material & Plating	Passivated Stainless Steel		
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material & Plating]	Passivated Stainless Steel	
Mechanical Specification N Crush Resistance: 1,050 I Jacket Material is a PET w	os.	s steel sheath	
vironmental Specifi <mark>ca</mark>	tions		
Temperature			
Operating Range	+125 de	eg C	
mpliance Certification	s (see product page for c	urrent document)	
otted and Other Data			
w to Order			
Part Number Configuration	r: FM40	VNA007 - xx u	u
			cm = Centime <blank> = Inches</blank>
			<diank> = INCHES</diank>
		I	Length
Example: FM40VNA007-	12 = 12 inches long cable	2	
	$100 \text{ cm} = 100 \text{ cm} \log ca$		

Vector Network Analyzer (VNA) Ruggedized 40 GHz Test Cable 2.92mm NMD Female to 2.92mm Male from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Vector Network Analyzer (VNA) Ruggedized 40 GHz Test Cable 2.92mm NMD Female to 2.92mm Male FM40VNA007

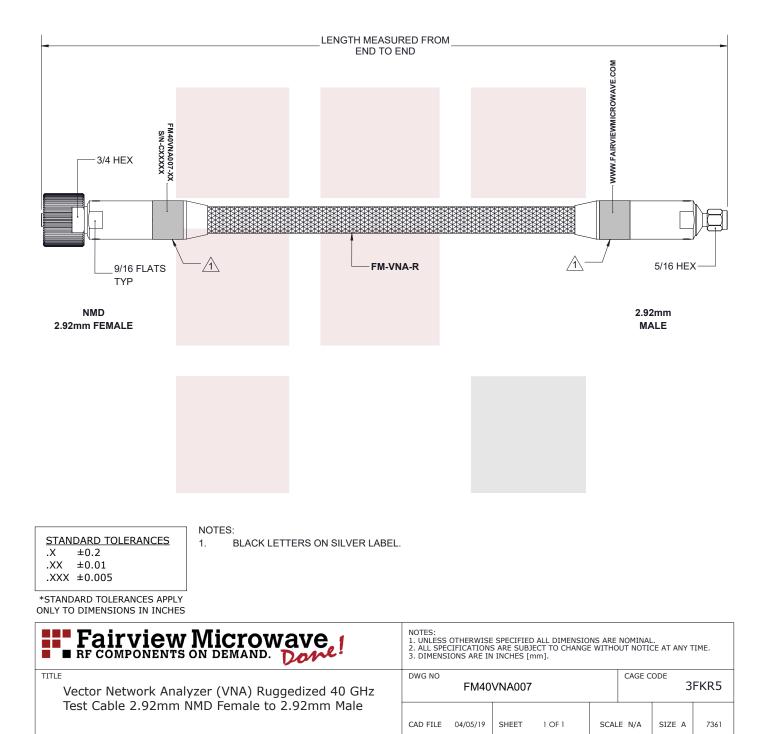
URL: https://www.fairviewmicrowave.com/2.92mm-nmd-female-2.92mm-male-cable-vna-cable-coax-fm40vna007-p. aspx

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