

Vector Network Analyzer (VNA) Ruggedized 40 GHz Test Cable 2.92mm Male to 2.92mm Male 24 Inch Length, RoHS

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	Т	ур	Max	U	Inits	
Frequency Range	DC			40		GHz	
VSWR				1.38:1			
Velocity of Propagation			70			%	
RF Shielding	90					dB	
Capacitance		26.8	[87.93]		pF/fl	t [pF/m	ןו
Phase Stability with Flex	ure	-	±5		De	grees	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	18	26	40			GHz
Insertion Loss (Max.)	1.36	1.67	2.15			dB
VSWR (Max.)	1.38:1	1.38:1	1.3 <mark>8:1</mark>			
Power Handling (Max.))		42			W

Mechanical Specifications

Cable Assembly

Length* Weight

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

24 in [609.6 mm] 0.379 lbs [171.91 g]

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]

FM40VNA001-24 DATA SHEET



Configuration:

- 2.92mm Male
- 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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com Fairview Microwave

an INFINIT[©] brand



Connectors

Description	Connector 1	Connector 2	_	
Туре	2.92mm Male	2.92mm Male	-	
Impedance	50 Ohms	50 Ohms	_	
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	_	
Dielectric Type	Noryl	Noryl	_	
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Stee		
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Stee		
Mechanical Specification No Crush Resistance: 1,050 lbs Jacket Material is a PET wea vironmental Specificati Temperature Operating Range	s. ave over a spiral stainles			
mpliance Certifications	(see product page for c	urrent document)		
otted and Other Data Notes:				
ow to Order				
Part Number Configuration:	FM40	VNA001 - xx	uu 	cm = Centimete
				<blank> = Inches Length</blank>
	2 = 12 inches long cable 00cm = 100 cm long ca			Length

Vector Network Analyzer (VNA) Ruggedized 40 GHz Test Cable 2.92mm Male to 2.92mm Male 24 Inch Length, RoHS 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 Male to 2.92mm Male in 24 Inch FM40VNA001-24

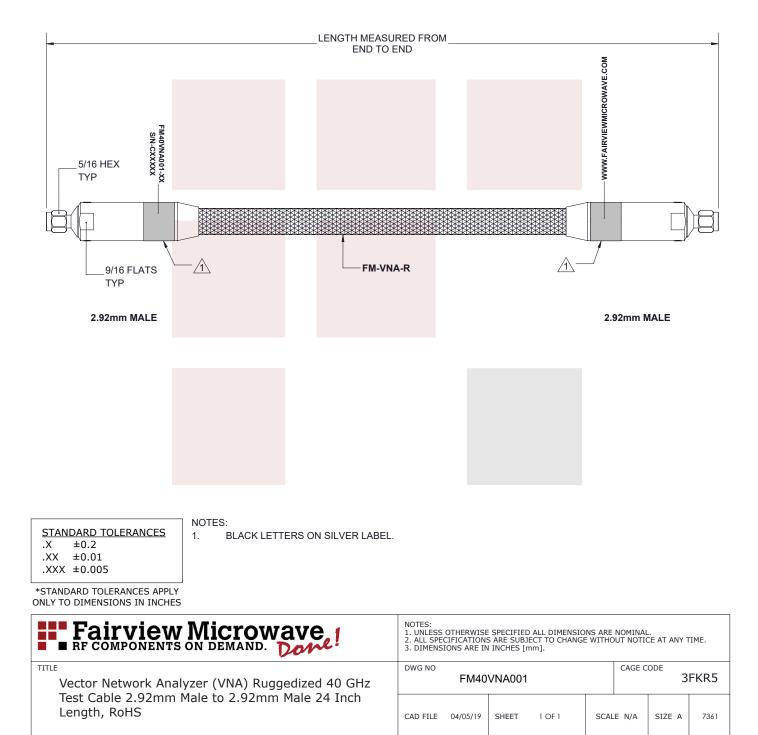
URL: https://www.fairviewmicrowave.com/2.92mm-male-2.92mm-male-cable-vna-cable-coax-fm40vna001-24-p.aspx

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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689