

Vector Network Analyzer (VNA) Ruggedized 40 GHz Test Cable 2.92mm Male to 2.92mm Male in 60 Inch

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	ур Мах	Units		
Frequency Range	DC		40	GHz		
VSWR		1.38:1				
Velocity of Propagation		7	0	%		
RF Shielding	90			dB		
Capacitance		26.8 [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.)	2.92	3.61	4.64			dB
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

60 in [152.4 cm] 0.702 lbs [318.42 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]

FM40VNA001-60 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

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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 Steel	Ī	
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel		
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 = Centimeter <blank> = Inches</blank>
	2 = 12 inches long cable 00cm = 100 cm long ca			_ength

Vector Network Analyzer (VNA) Ruggedized 40 GHz Test Cable 2.92mm Male to 2.92mm Male in 60 Inch 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 60 Inch FM40VNA001-60

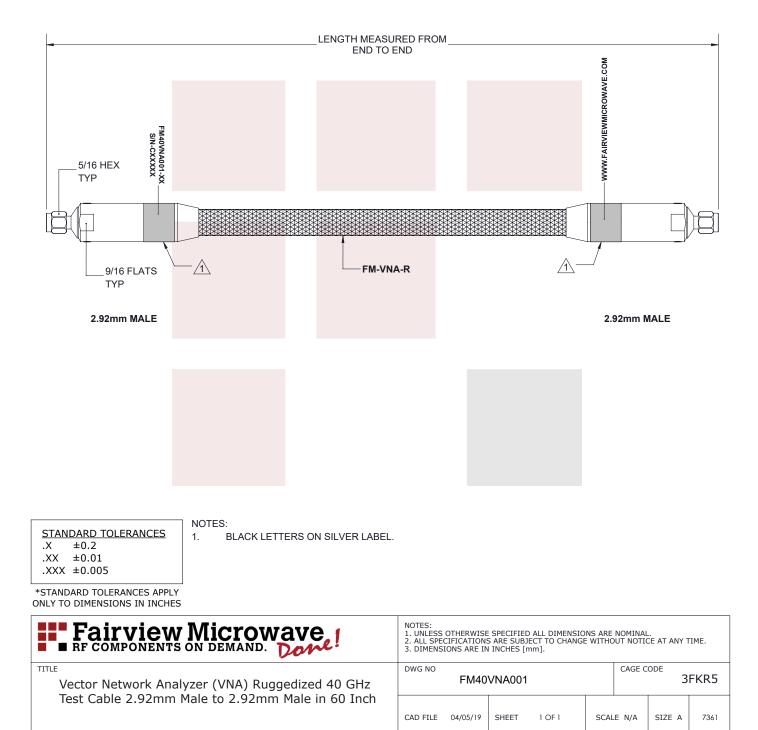
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