

Vector Network Analyzer (VNA) Ruggedized 27 GHz Test Cable 3.5mm Male to 3.5mm Male in 36 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 +/- 3° 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	ι	Inits	-
Frequency Range	DC			27		GHz	
VSWR				1.25:1			
Velocity of Propagation			70			%	
RF Shielding	90					dB	
Capacitance		29.4	[96.46]		pF/fl	t [pF/m]
Phase Stability with Flex	ure	=	±3		De	grees	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	12	18	26.5			GHz
Insertion Loss (Max.)	1.5	1.88	2.36			dB
Power Handling (Max.)			65			W

Mechanical Specifications

Cable Assembly

Length* Weight

36 in [914.4 mm] 0.4873 lbs [221.04 g]

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

VNA-R 50 Ohms Solid Copper, Silver PTFE Silver Plated Copper Braid

Silver Plated Copper Tape Silver Plated Copper Braid PET

0.43 in [10.92 mm]

One Time Minimum Bend Radius 4 in [101.6 mm]

FM26VNA003-36 **DATA SHEET**



Configuration:

- 3.5mm Male
- 3.5mm Male
- VNA-R

Features:

- Max Frequency 27 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Triple Shielded
- PET Jacket
- VNA Test Cables Extend VNA Test
- Low VSWR and Low Insertion I nes
- Crush resistant stainless steel cable armor
- Flexible PET protective sleeve
- Connector resist twisting during
- Rugged connector attachment
- Highly stable +/- 3° 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	3.5mm Male	3.5mm Male		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Dielectric Type	PCTFE	PCTFE		
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel		

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

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

Environmental Specifications

Temperature

Operating Range +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Part Number Configuration:

Notes:

How to Order

Example: FM26VNA003-12 = 12 inches long cable

FM26VNA003-100cm = 100 cm long cable

Vector Network Analyzer (VNA) Ruggedized 27 GHz Test Cable 3.5mm Male to 3.5mm Male in 36 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 27 GHz Test Cable 3.5mm Male to 3.5mm Male in 36 Inch FM26VNA003-36

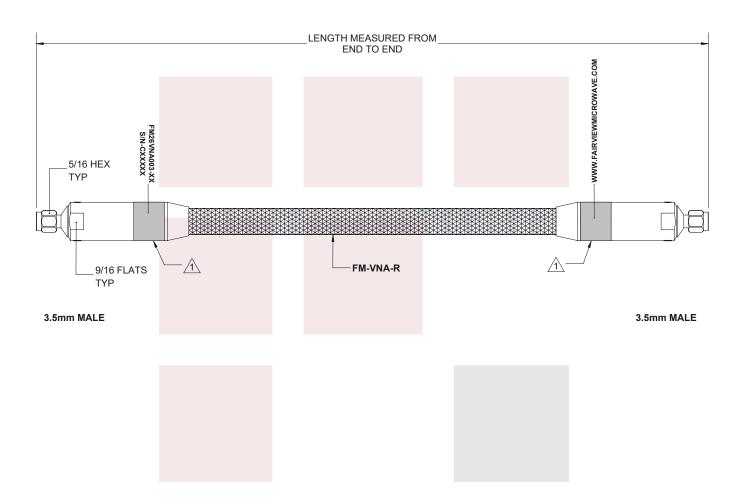
URL: https://www.fairviewmicrowave.com/3.5mm-male-3.5mm-male-cable-vna-cable-coax-fm26vna003-36-p.aspx

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.

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STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES NOTES:

BLACK LETTERS ON SILVER LABEL.



Test Cable 3.5mm Male to 3.5mm Male in 36 Inch

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG NO CAGE CODE FM26VNA003 3FKR5 CAD FILE 04/05/19 SHEET 1 OF 1 SCALE N/A SIZE A 7361

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