

Vector Network Analyzer (VNA) Ruggedized 27 GHz Test Cable 3.5mm Female to 3.5mm NMD Female in 48 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	Units
Frequency Range	DC			27	GHz
VSWR				1.3:1	
Velocity of Propagation			70		%
RF Shielding	90				dB
Capacitance		29.4	[96.46]		pF/ft [pF/m]
Phase Stability with Flex	ure	=	±3		Degrees

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	12	18	26.5			GHz
Insertion Loss (Max.)	1.91	2.4	3.02			dB
Power Handling (Max.)			65			W

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm] Weight 0.73 lbs [331.12 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

One Time Minimum Bend Radius

PTFE
3
Silver Plated Copper Braid
Silver Plated Copper Tape
Silver Plated Copper Braid
PET
0.43 in [10.92 mm]

4 in [101.6 mm]

VNA-R 50 Ohms

Solid

Copper, Silver

FM26VNA010-48 DATA SHEET



Configuration:

- 3.5mm Female
- 3.5mm NMD Female
- VNA-R

Features:

- Max Frequency 27 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Triple Shielded
- PET Jacket
- VNA Test Cables Extend VNA Test Ports
- Low VSWR and Low Insertion
- Crush resistant stainless steel cable armor
- Flexible PET protective sleeve
- Connector resist twisting during flexure
- 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 Female	3.5mm NMD Female	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Dielectric Type	PCTFE	PCTFE	
Outer Cond Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body 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)

FM26VNA010-100cm = 100 cm long cable

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

Example: FM26VNA010-12 = 12 inches long cable

FM26VNA010 - xx uu | cm = Centimeters | chlank> = Inches | Length

Vector Network Analyzer (VNA) Ruggedized 27 GHz Test Cable 3.5mm Female to 3.5mm NMD Female in 48 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 Female to 3.5mm NMD Female in 48 Inch FM26VNA010-48

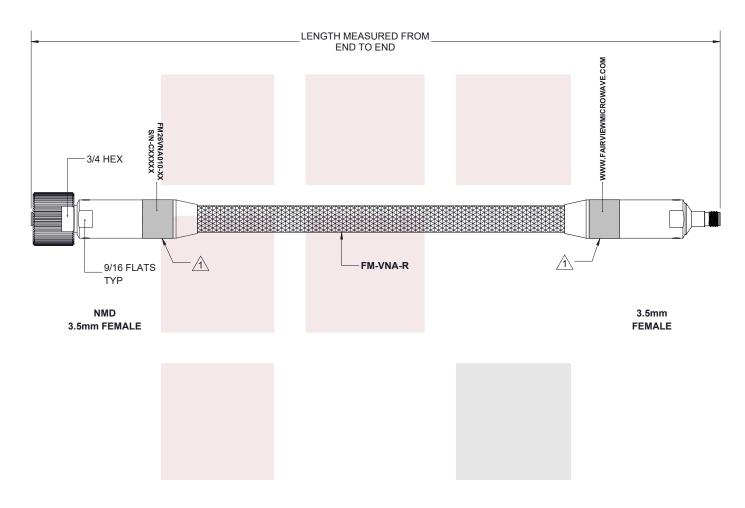
URL: https://www.fairviewmicrowave.com/3.5mm-female-3.5mm-nmd-female-cable-vna-cable-coax-fm26vna010-48-p. aspx

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

48 Inch

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES NOTES:

BLACK LETTERS ON SILVER LABEL.

Fairview Microwave
TITLE
Vector Network Analyzer (VNA) Ruggedized 27 GHz

Test Cable 3.5mm Female to 3.5mm NMD Female in

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 FM26VNA010 3FKR5 CAD FILE 04/05/19 SHEET 1 OF 1 SCALE N/A SIZE A 7361

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