Fairview Microwave
an INFINITE brand

FM26VNA005 DATA SHEET

Vector Network Analyzer (VNA) Ruggedized 26.5 GHz Test Cable 2.92mm Male to 2.92mm Male, RoHS

The 2.92mm male to 2.92mm male cable using Vector Network Analyzer (VNA) ruggedized coax, part number FM26VNA005, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm cable assembly has a male to male gender configuration with 50 ohm flexible VNA-R coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FM26VNA005 2.92mm male to 2.92mm male cable assembly operates to 26.5 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB. 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.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		26.5	GHz
VSWR			1.25:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Phase Stability with Flexure		±3		Degrees

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	12	18	26.5			GHz
Insertion Loss (Max.)	0.41	0.52	0.64			dB/ft
	1.35	1.71	2.1			dB/m
VSWR (Max.)	1.25:1	1.25:1	1.25:1			
Power Handling (Max.)			65			W

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Configuration:

- 2.92mm Male
- 2.92mm Male
- VNA-R

Features:

- Max Frequency 26.5 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 +/- 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

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

Cable

Cable Type	VNA-R
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Tape
Shield Layer 3	Silver Plated Copper Braid
Jacket Material	PET
Jacket Diameter	0.43 in [10.92 mm]
One Time Minimum Bend Radius	4 in [101.6 mm]

Connectors

Description	Connector 1	Connector 2
Type	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
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

Notes:

How to Order

Part Number Configuration: **FM26VNA005 - xx uu**

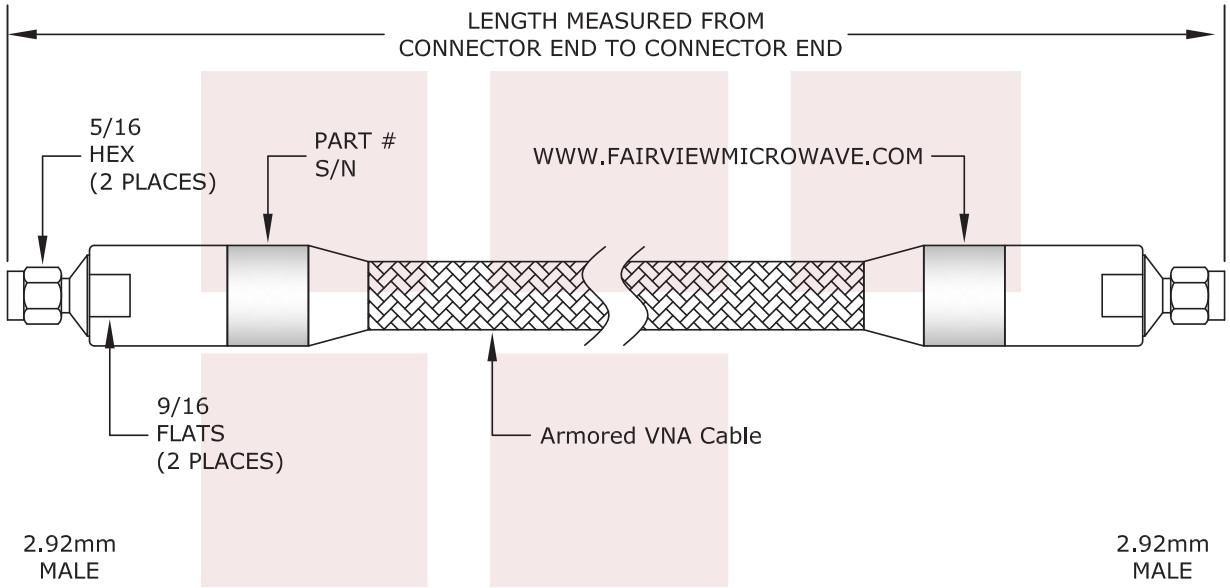
- uu: cm = Centimeters, <blank> = Inches
- xx: Length

Example: FM26VNA005-12 = 12 inches long cable
FM26VNA005-100cm = 100 cm long cable

Vector Network Analyzer (VNA) Ruggedized 26.5 GHz Test Cable 2.92mm Male to 2.92mm Male, 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 26.5 GHz Test Cable 2.92mm Male to 2.92mm Male FM26VNA005

URL: https://www.fairviewmicrowave.com/2.92mm-male-2.92mm-male-cable-vna-cable-coax-fm26vna005-p.aspx



FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].				
TITLE Vector Network Analyzer (VNA) Ruggedized 26.5 GHz Test Cable 2.92mm Male to 2.92mm Male, RoHS	DWG NO FM26VNA005	CAGE CODE 3FKR5			
	CAD FILE 072215	SHEET	SCALE N/A	SIZE A	2233

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