



Precision 2.4mm Male to 2.4mm Male Cable VNA High Flex Coax

The 2.4mm male to 2.4mm male cable using VNA high flex coax, part number FMC500-48, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm flexible FM-VNA-HF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC500-48 2.4mm male to 2.4mm male cable assembly operates to 50 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 100 dB. Fairview Microwave's precision VNA test cables with high-flex coax are designed to proivde accurate performance up to 50 GHz. The stainless steel, braided armoring provides a rugged and flexible test cable solution that exceeds 100,000 flexure cycles with proper care. Very low insertion loss and VSWR as low as 1.3:1 with phase stability of +/- 6° with flexure give these test cables excellent electrical properties for even the most demanding applications. The rugged connectors also allow up to 5,000 mating cycles when attached with proper care.

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	Тур	Max	Units
Frequency Range	DC		50	GHz
VSWR			1.3:1	
Velocity of Propagation		78		%
RF Shielding	100			dB
Group Delay		1.34 [4.4]		ns/ft [ns/m]
Capacitance		26.5 [86.94]		pF/ft [pF/m]
Input Power (Average)			18	Watts
Phase Stability with Flex	ure	±6		Degrees

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units	
Frequency	2.5	5	10	20	50	GHz	
Insertion Loss (Max.)	1.8	2.32	3.12	4.4	7	dB/ft	
	5.91	7.61	10.24	14.44	22.97	dB/m	
Power Handling (Max.) 18							

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Length*

0 in [0 mm]





Configuration:

- 2.4mm Male
- 2.4mm Male
- FM-VNA-HF

Features:

- Max Frequency 50 GHz
- Shielding Effectivity > 100 dB
- 78% Phase Velocity
- Triple Shielded
- Phase and Amplitude stable designed for VNA testing
- 1.3:1 VSWR to 50 GHz
- Excellent Amplitude and Phase stability with flexure
- Armored Cable construction is highly flexible
- Non Conductive Nomex outer sleeve
- Serialized test data for each cable assembly
- In stock and ready to ship

Applications:

- General Purpose
- Laboratory Use
- VNA Test Cables
- Probe testing to 50 GHz
- Precision Development testing
- For use in Automated Test Systems

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

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Weight 0.3325 lbs [150.82 g]

Cable

Cable Type FM-VNA-HF
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 Tape
Shield Layer 2 Silver Plated Copper Braid
Shield Layer 3 Silver Plated Copper Braid
Jacket Diameter 0.27 in [6.86 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

Flat Plate Crush 317 lbs/in [5.66 Kg/mm]

Connectors

Description	Connector 1	Connector 2
Туре	2.4mm Male	2.4mm Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, G	old Beryllium Copper, Gold
Dielectric Type	ULTEM	ULTEM
Body Material & Plating	Passivated Stainless S	Steel Passivated Stainless Steel
Coupling Nut Material & Pla	ting Passivated Stainless S	Steel Passivated Stainless Steel
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

How to Order

Part Number Configuration:

Example: FMC500-12 = 12 inches long cable

FMC500-100cm = 100 cm long cable

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





Precision 2.4mm Male to 2.4mm Male Cable VNA High Flex Coax 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: Precision 2.4mm Male to 2.4mm Male Cable VNA High Flex Coax FMC500-48

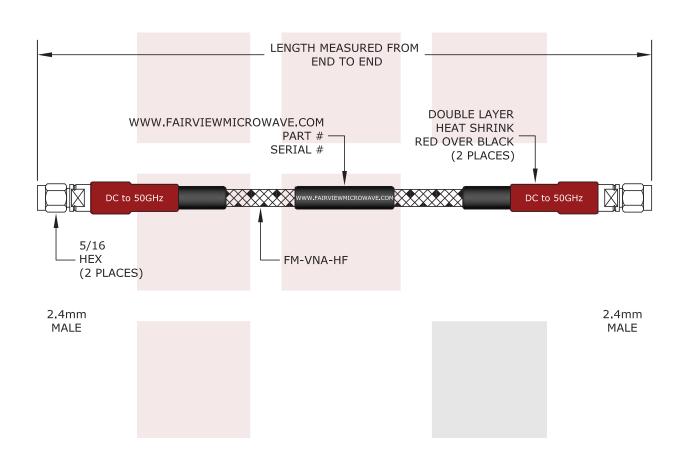
URL: https://www.fairviewmicrowave.com/precision-2.4mm-male-2.4mm-male-cable-vna-cable-coax-fmc500-48-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part

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	nt improvements. Fairview			-			
	specifications are nominal.						
	f the part described herein			rpose, and Fair	view Mi	crowave does not as	sume any liability
arising out o	of the use of any part or do	ocument	ation.				







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].				NY TIME.	
Precision 2.4mm Male to 2.4mm Male Cable VNA High	DWG NO FMC500			CAGE CODE 3FKR5		
Flex Coax	CAD FILE 100815	SHEET	SCAL	E N/A	SIZE A	2233