



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

The 2.4mm female to 2.4mm female cable using VNA high flex coax, part number FMC650, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm cable assembly has a female to female 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 FMC650 2.4mm female to 2.4mm female cable assembly operates to 50 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 100 dB. 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 1.4:1 with phase stability of +/- 8° 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

Min	T	ур	Max	Units	
DC			50	GHz	
			1.3:1		
	7	78		%	
100				dB	
	1.34	[4.4]		ns/ft [ns/r	n]
	25.9 [84.97]		pF/ft [pF/r	n]
			18	Watts	
ure	4	-6		Degrees	5
Flexure	0	.1		dB	
	DC 100	DC 77 100 1.34 25.9 [DC 78 100 1.34 [4.4] 25.9 [84.97] ure	DC 50 1.3:1 78 100 1.34 [4.4] 25.9 [84.97] 18 ure ±6	DC 50 GHz 1.3:1 78 % 100 dB 1.34 [4.4] ns/ft [ns/r 25.9 [84.97] pF/ft [pF/r 18 Watts ure ±6 Degrees

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	40	50				GHz
Insertion Loss (Max.)	0.67	1.6				dB/ft
	2.2	5.25				dB/m

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

Mechanical Specifications

Cable Assembly

Length*

0 in [0 mm]



Configuration:

- 2.4mm Female
- 2.4mm Female
- 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
- 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 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

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Cable

Cable Type FM-VNA-HF
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Conner Silve

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 Female	2.4mm Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, G	Gold Beryllium Copper, Gold
Dielectric Type	ULTEM	ULTEM
Outer Cond Material & Plat	ng Passivated Stainless	Steel Passivated Stainless Steel
Body Material & Plating	Passivated Stainless	Steel Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

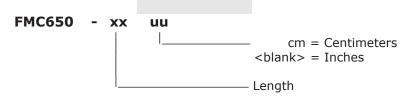
Plotted and Other Data

Notes:

· Values at 25°C, sea level.

How to Order

Part Number Configuration:



Example: FMC650-12 = 12 inches long cable

FMC650-100cm = 100 cm long cable

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Precision 2.4mm Female to 2.4mm Female 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 Female to 2.4mm Female Cable VNA High Flex Coax FMC650

URL: https://www.fairviewmicrowave.com/precision-2.4mm-female-2.4mm-female-cable-vna-cable-coax-fmc650-p.aspx

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

described here	ein. It may be necessar	y to make modi	fications to the part a	nd/or tl	ne documentation of the par	t, in order
to implement	improvements. Fairview	Microwave rese	rves the right to mak	e such o	changes as required. Unless	otherwise
					resentation or warranty rega	
			lar purpose, and Fair	view Mi	crowave does not assume a	ny liability
arising out of	the use of any part or do	ocumentation.				

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