



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

The 2.4mm NMD female to 2.4mm female cable using VNA high flex coax, part number FMC670, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm NMD 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 FMC670 2.4mm NMD 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 +/- 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	Т	ур	Max	Units
Frequency Range	DC			50	GHz
VSWR				1.4:1	
Velocity of Propagation		7	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	3	<u></u> 6		Degrees
Amplitude Stability with	Flexure	0	.1		dB

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50					GHz
Insertion Loss (Max.)	1.6					dB/ft
	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 NMD 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
- 1.4:1 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

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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

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		Connect	or 1		Connecto	or 2		
Туре		2.4mm NMD	Fema	ale	2.4mm Fer	male		
Impedance		50 Ohr	ns		50 Ohms			
Contact Material & Plating	Beryllium Cop	per, G	iold	Beryllium Copper, Gold				
Dielectric Type		ULTEN	4		ULTEM			
Outer Cond Material & Plat	ing	Passivated Stair	nless S	Steel	Passivated Stain	less Steel		
Body Material & Plating		Passivated Stair	nless S	Steel	Passivated Stain	less Steel		
Coupling Nut Material & Pla	ating	Passivated Stair	nless S	Steel				

Environmental Specifications

Temperature

-55 to +125 deg C Operating Range

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:

FMC670 - xx uu cm = Centimeters

dlank> = Inches Length

Example: FMC670-12 = 12 inches long cable

FMC670-100cm = 100 cm long cable





Precision 2.4mm NMD 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 NMD Female to 2.4mm Female Cable VNA High Flex Coax FMC670

URL: https://www.fairviewmicrowave.com/precision-2.4mm-nmd-female-2.4mm-female-cable-vna-cable-coax-fmc670-p. aspx

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

described l	herein. It	may be	necessar	y to ma	ke modific	ations to t	he part a	nd/or t	ne docun	nentation	of the par	t, in order
to impleme	ent improv	ements.	Fairview	/ Microw	ave reserv	es the rigl	nt to mak	e such	changes	as require	ed. Unless	otherwise
stated, all	specificati	ons are	nominal.	Fairvie	w Microwa	ve does n	ot make	any rep	resentat	ion or wa	rranty rega	arding the
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