



Precision 1.85mm NMD Female to 1.85mm Female Cable VNA High Flex Coax

The 1.85mm NMD female to 1.85mm female cable using VNA high flex coax, part number FMC970, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm NMD to 1.85mm 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 FMC970 1.85mm NMD female to 1.85mm female cable assembly operates to 70 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

Description	Min	T	ур	Max	Units
Frequency Range	DC			70	GHz
VSWR				1.4:1	
Velocity of Propagation		7	'8		%
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)				14	Watts
Phase Stability with Flex	ure	3	-8		Degrees
Amplitude Stability with	Flexure	0	.1		dB

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	70				GHz
Insertion Loss (Max.)	1.6	2				dB/ft
	5.25	6.56				dB/m
VSWR (Max.)	1.4:1	1.4:1				
Power Handling (Max.)					18	W

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



Configuration:

- 1.85mm NMD Female
- 1.85mm Female
- FM-VNA-HF

Features:

- Max Frequency 70 GHz
- Shielding Effectivity > 100 dB
- 78% Phase Velocity
- Triple Shielded
- Phase and Amplitude stable designed for VNA testing
- 1.4:1 VSWR to 70 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 70 GHz
- Precision Development testing
- For use in Automated Test Systems

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Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable Type FM-VNA-HF
Impedance 50 Ohms
Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver Dielectric Type PTFE

Dielectric Type P 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 O.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		1.85mm NMD Fer	male	1.85mm Fe	male
Impedance		50 Ohms		50 Ohm	S
Contact Material & Plating		Beryllium Copper,	Gold	Beryllium Copp	er, Gold
Dielectric Type		ULTEM		ULTEM	
Outer Cond Material & Plati	ng	Passivated Stainless	Steel	Passivated Stain	ess Steel
Body Material & Plating		Passivated Stainless	Steel	Passivated Stain	ess Steel
Coupling Nut Material & Pla	iting	Passivated Stainless	Steel		
Torque		8 in-lbs 0.9 Nr	n		

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:

FMC970 - xx uu

| cm = Centimeters
| clank> = Inches
| Length

Example: FMC970-12 = 12 inches long cable

FMC970-100cm = 100 cm long cable

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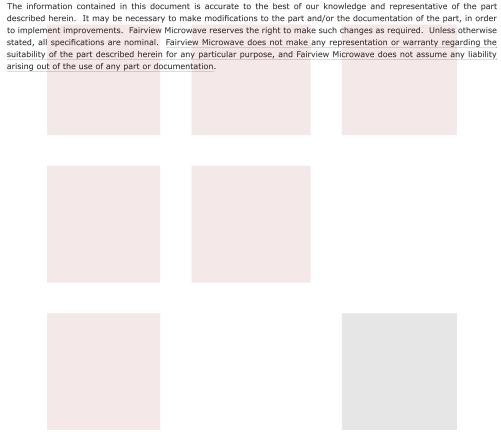




Precision 1.85mm NMD Female to 1.85mm Female Cable VNA High Flex Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Precision 1.85mm NMD Female to 1.85mm Female Cable VNA High Flex Coax FMC970

URL: https://www.fairviewmicrowave.com/precision-1.85mm-nmd-female-1.85mm-female-cable-vna-cable-coax-fmc970-p.aspx



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