



Precision 1.85mm Male to RA 1.85mm Male Cable VNA High Flex Coax and RoHS Compliant

Fairview Microwave's precision VNA test cables with high-flex coax are designed to proivde accurate performance up to 67 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 1.4:1 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.

Electrical Specifications

Min	Т	ур	Max	Units		
DC			67		GHz	
			1.4:1			
	7	78			%	
100					dB	
	1.34 [4.4]			ns/ft	[ns/m]
	26.5 [86.94]		pF/ft [pF/m]			
		18 Watts		/atts		
ure	±8		Degrees			
	DC 100	DC 7 100 1.34 26.5 [DC 78 100 1.34 [4.4] 26.5 [86.94]	DC 67 1.4:1 78 100 1.34 [4.4] 26.5 [86.94]	DC 67 1.4:1 78 100 1.34 [4.4] ns/ft 26.5 [86.94] pF/ft	DC 67 GHz 1.4:1 78 % 100 dB 1.34 [4.4] ns/ft [ns/m 26.5 [86.94] pF/ft [pF/m 18 Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	5	10	20	40	67	GHz
Insertion Loss (Max.)	0.48	0.68	1	1.45	1.95	dB/ft
	[1.57]	[2.23]	[3.28]	[4.76]	[6.4]	[dB/m]
Power Handling (Max.))				18	Watts

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

Mechanical Specifications

Cable Assembly

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2
Shield Layer 3
Jacket Diameter

One Time Minimum Bend Radius Flat Plate Crush

FM-VNA-HF 50 Ohms Solid Copper, Silver PTFE 3

Silver Plated Copper Tape Silver Plated Copper Braid Silver Plated Copper Braid 0.27 in [6.86 mm]

1 in [25.4 mm] 317 lbs/in [5.66 Kg/mm]





Configuration:

- 1.85mm Male
- 1.85mm Male Right Angle
- FM-VNA-HF

Features:

- Phase and Amplitude stable designed for VNA testing
- 1.4:1 VSWR to 67 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:

- VNA Test Cables
- Probe testing to 67 GHz
- Precision Development testing
- For use in Automated Test Systems

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Connectors

Description	Connector 1	Connector 2
Туре	1.85mm Male	1.85mm Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	ULTEM	ULTEM
Outer Cond Material & Plating		Passivated Stainless Steel
Coupling Nut Material & Plating	Passivated Stainless Steel	
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

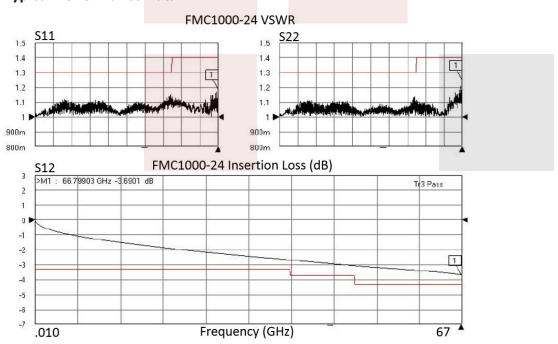
REACH Compliant 06/15/2015

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

Typical Performance Data







How to Order

Part Number Configuration:	FMC1000	- xx	uu	
				cm = Centimeters <black> = Inches - Length</black>

Example: FMC1000-12 = 12 inches long cable

FMC1000-100cm = 100 cm long cable

Precision 1.85mm Male to RA 1.85mm Male Cable VNA High Flex Coax and RoHS Compliant from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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 Male to RA 1.85mm Male Cable VNA High Flex Coax and RoHS Compliant FMC1000

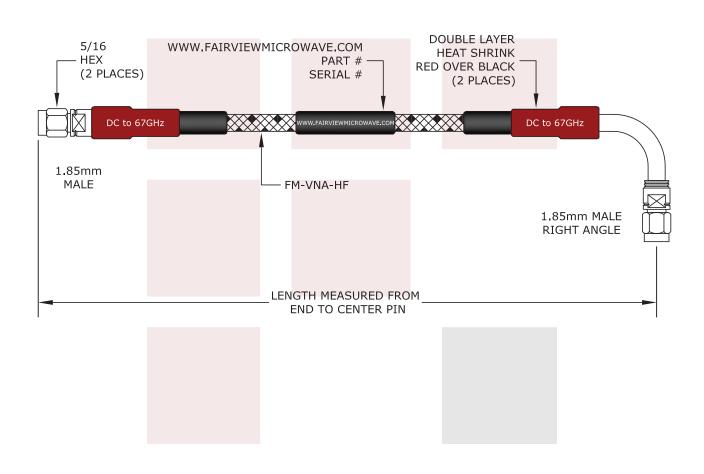
URL: http://www.fairviewmicrowave.com/precision-1.85mm-male-ra-1.85mm-male-cable-vna-cable-coax-fmc1000-p. aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

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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].						
Precision 1.85mm Male to RA 1.85mm Male Cable VNA High Flex Coax and RoHS Compliant	DWG NO	FMC1000			CAGE CODE 3FKR5		
	CAD FILE 100815	SHEET	SCALE	N/A	SIZE A	2233	