



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

The 1.85mm female to 1.85mm female cable using VNA high flex coax, part number FMC950, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm 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 FMC950 1.85mm 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 +/- 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	T	ур	Max	Units
Frequency Range	DC			70	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)				14	Watts
Phase Stability with Flex	ure	3	-6		Degrees
Amplitude Stability with	Flexure	0	.1		dB

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	40	50	70			GHz
Insertion Loss (Max.)	0.67	1.6	2			dB/ft
	2.2	5.25	6.56			dB/m
VSWR (Max.)	1.3:1	1.3:1	1.4:1			

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

Mechanical Specifications

Cable Assembly

Length*

0 in [0 mm]



Configuration:

- 1.85mm 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

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

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





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	1.85mm Female	1.85mm Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gol	d Beryllium Copper, Gold
Dielectric Type	ULTEM	ULTEM
Outer Cond Material & Platin	ng Passivated Stainless Ste	eel Passivated Stainless Steel
Body Material & Plating	Passivated Stainless Ste	eel 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:

FMC950 - xx uu | cm = Centimeters | cblank> = Inches | Length

Example: FMC950-12 = 12 inches long cable

FMC950-100cm = 100 cm long cable





Precision 1.85mm 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 Female to 1.85mm Female Cable VNA High Flex Coax FMC950

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

URL: https://www.fairviewmicrowave.com/precision-1.85mm-female-1.85mm-female-cable-vna-cable-coax-fmc950-p. aspx

to implen	nent improvement	s. Fairview	Microw	ave reserv	es the righ	nt to mak	e such	changes	as requ	ired. Un	ess ot	herwise
	I specifications are											
suitability	of the part descr	ibed hereir	for any	particular	purpose,	and Fair	view M	icrowave	does r	ot assum	e any	liability
arising ou	it of the use of any	part or do	cument	ation.								





