

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

The 1.85mm male to 1.85mm female cable using VNA high flex coax, part number FMC900, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 1.85mm cable assembly has a male 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 FMC900 1.85mm male to 1.85mm female 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	т	ур	Max	ι	Jnits
Frequency Range	DC			70		GHz
VSWR				1.4:1		
Velocity of Propagation		-	78			%
RF Shielding	100					dB
Group Delay		1.34	[4.4]		ns/f	t [ns/m]
Capacitance		26.5	[86.94]		pF/f	t [pF/m]
Input Power (Average)				18	٧	Vatts
Phase Stability with Flex	ure	=	E8		De	egrees

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	5	10	20	40	70	GHz
Insertion Loss (Max.)	0.48	0.68	1	1.45	2.5	dB/ft
	1.57	2.23	3.28	4.76	8.2	dB/m
Power Handling (Max.)					18	W

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

Mechanical Specifications

Cable Assembly Length*

0 in [0 mm]



City DC-70

FMC900

Configuration:

- 1.85mm Male
- 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
- Serialized test data for each cable assembly
- 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 Fairview Microwave



FMC900 DATA SHEET

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

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]

One Time Minimum Bend Radius1 in [25.4 mm]Flat Plate Crush317 lbs/in [5.66 Kg/mm]

Connectors

Description	Connector	1	Connecto	r 2	
Туре	1.85mm Mal	e	1.85mm Fer	nale	
Impedance	50 Ohms		50 Ohms		
Contact Material & Plating	Beryllium Copper,	Beryllium Copper, Gold Beryllium Copper, Gol		er, Gold	
Dielectric Type	ULTEM		ULTEM		
Outer Cond Material & Plati	ng		Passivated Stainle	ess Steel	
Body Material & Plating	Passivated Stainles	s Steel	Passivated Stainle	ess Steel	
Coupling Nut Material & Pla	ting Passivated Stainles	s Steel	Passivated Stainle	ess Steel	
Torque	8 in-lbs 0.9 N	m	8 in-lbs 0.9	Nm	

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

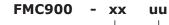
Plotted and Other Data

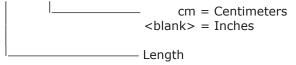
Notes:

• Values at 25°C, sea level.

How to Order

Part Number Configuration:





Example: FMC900-12 = 12 inches long cable FMC900-100cm = 100 cm long cable

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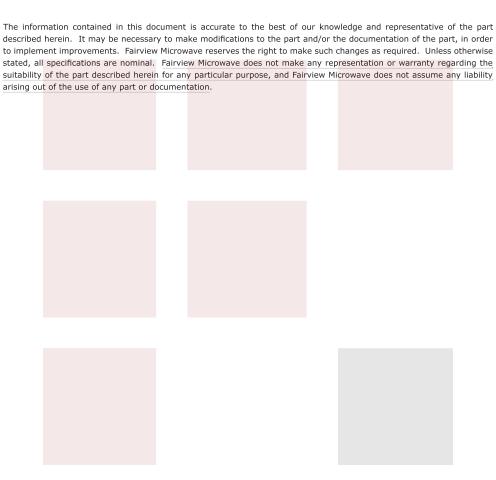




Precision 1.85mm Male to 1.85mm Female Cable VNA High Flex Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Precision 1.85mm Male to 1.85mm Female Cable VNA High Flex Coax FMC900

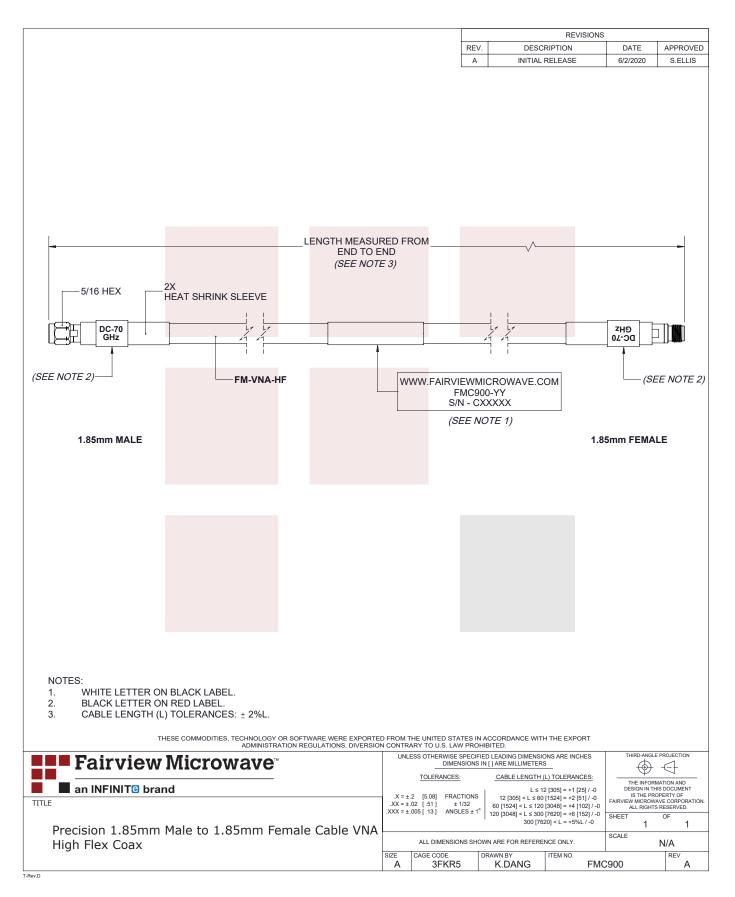
URL: https://www.fairviewmicrowave.com/precision-1.85mm-male-1.85mm-female-cable-vna-cable-coax-fmc900-p.aspx



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