



Precision 1.85mm Male to 1.85mm Male Cable VNA High Flex Coax in 48 Inch

The 1.85mm male to 1.85mm male 48 inch cable using VNA high flex coax, part number FMC800-48, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 1.85mm cable assembly has a male to male 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 FMC800-48 1.85mm male to 1.85mm male cable assembly operates to 70 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 100 dB. 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.

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	Тур	Max	Units
Frequency Range	DC		70	GHz
VSWR			1.4:1	
Velocity of Propagation		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	±8		Degrees

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	5	10	20	40	70	GHz
Insertion Loss (Max.) 2.32	3.12	4.4	6.2	8.5	dB
Power Handling (Max	.)				18	W

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

Mechanical Specifications

Cable Assembly

Length* Weight

48 in [121.92 cm] 0.335 lbs [151.95 g]



Configuration:

- 1.85mm Male
- 1.85mm Male
- 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 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:

- General Purpose
- Laboratory Use
- VNA Test Cables
- Probe testing to 67 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	Connecto	r 2	
Туре	1.85mm Ma	le	1.85mm M	ale	
Impedance	50 Ohms		50 Ohms	5	
Contact Material & Plating	Beryllium Copper	um Copper, Gold Beryl		eryllium Copper, Gold	
Dielectric Type	ULTEM		ULTEM		
Body Material & Plating	Passivated Stainles	ss Steel	Passivated Stainle	ess Steel	
Coupling Nut Material & Pla	iting Passivated Stainles	ss Steel	Passivated Stainle	ess Steel	
Torque	8 in-lbs 0.9 N	٧m	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: FMC800-12 = 12 inches long cable

FMC800-100cm = 100 cm long cable





Precision 1.85mm Male to 1.85mm Male Cable VNA High Flex Coax in 48 Inch 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 Male Cable VNA High Flex Coax in 48 Inch FMC800-48

URL: https://www.fairviewmicrowave.com/precision-1.85mm-male-to-1.85mm-male-cable-vna-high-flex-coax-in-48-inch-fmc800-48-p.aspx







