

## Precision 1.0mm Male to 1.0mm Female Cable FM-TC110 Coax in 6 Inch with LF Solder

The 1.0mm male to 1.0mm female 6 inch cable using FM-TC110 coax, part number FMTC701-6, from Fairview Microwave is in-stock and ships same day. This Fairview 1.0mm to 1.0mm cable assembly has a male to female gender configuration with flexible FM-110TC coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMTC701-6 1.0mm male to 1.0mm female cable assembly operates to 110 GHz. The high performance 110 GHz VNA test cables from Fairview Microwave are specially designed to provide a precision test cable solution for applications requiring a coaxial 1.0mm connector interface. The lightweight armoring helps protect these high performance assemblies from being damaged and improves stability during flexure. These phase and amplitude stable cables also boast excellent VSWR and Insertion Loss properties. Each serialized cable assembly is 100% tested and each unit comes with test data. Fairview's 1.0mm test cables come in standard 6 inch and 12 inch lengths with Male-to-Male or Male-to-Female configurations. These precision 1.0mm test cables are in-stock and ready for same day shipping.

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	Typ	Max	Units
Frequency Range	DC		110	GHz
VSWR			1.5:1	
Group Delay		1.34 [4.4]		ns/ft [ns/m]
Capacitance		26.5 [86.94]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	67	110			GHz
Insertion Loss (Max.)	2.06	2.41	3.12			dB
VSWR (Max.)	1.3:1	1.4:1	1.5:1			

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

### Mechanical Specifications

#### Cable Assembly

Length\* 6 in [152.4 mm]  
 Weight 0.058 lbs [26.31 g]

#### Cable

Cable Type FM-110TC



### Configuration:

- 1.0mm Male
- 1.0mm Female
- FM-110TC

### Features:

- Max Frequency 110 GHz
- 110 GHz Maximum Frequency
- 1.0mm stainless steel connectors
- Phase and Amplitude Stable
- Protective outer sleeve
- Supplied with test data for each assembly
- All in-stock and ready to ship same day

### Applications:

- General Purpose
- Laboratory Use
- VNA testing
- 1.0mm test port extension
- Probe testing semiconductor applications
- Vehicle radar system testing
- Military radar testing

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One Time Minimum Bend Radius 1 in [25.4 mm]

### Connectors

Description	Connector 1	Connector 2
Type	1.0mm Male	1.0mm Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Cond Material & Plating		Passivated Stainless Steel
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material & Plating	Passivated Stainless Steel	
Torque	4 in-lbs 0.45 Nm	

### Environmental Specifications

#### Temperature

Operating Range -65 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:

**FMTC701 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

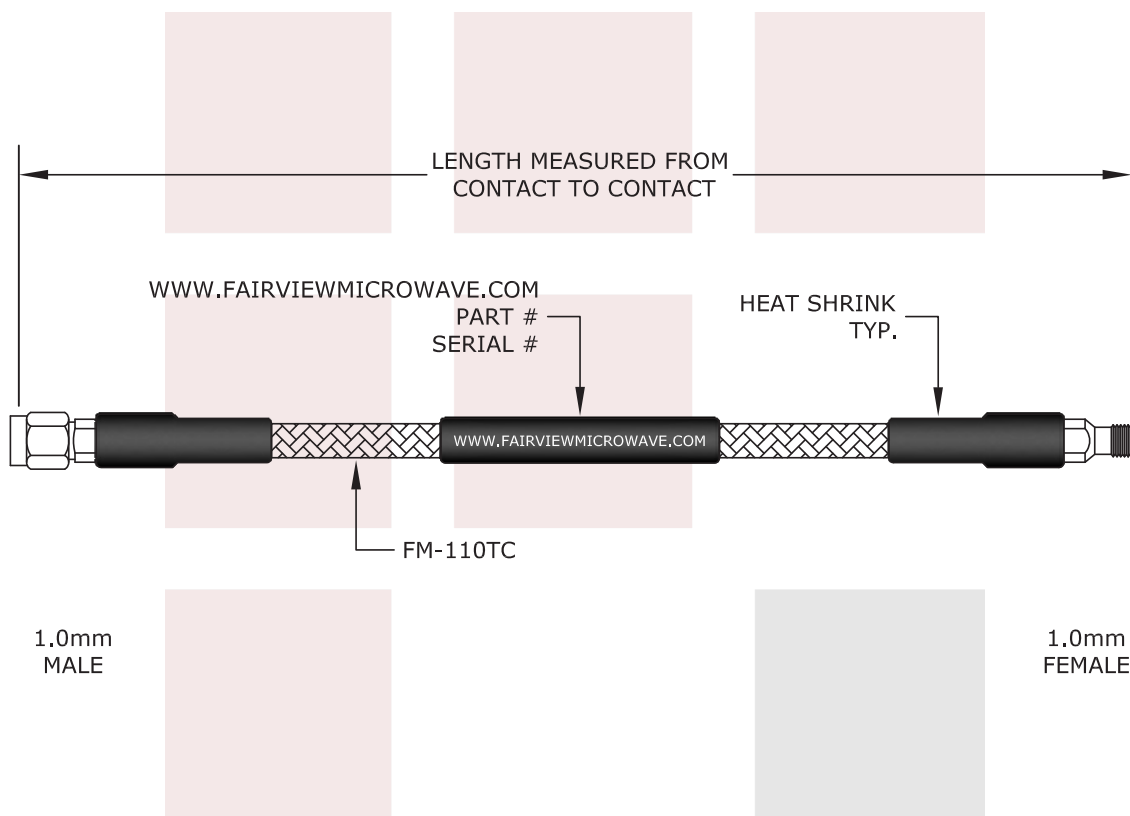
Example: FMTC701-12 = 12 inches long cable  
 FMTC701-100cm = 100 cm long cable

Precision 1.0mm Male to 1.0mm Female Cable FM-TC110 Coax in 6 Inch with LF Solder 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 1.0mm Male to 1.0mm Female Cable FM-TC110 Coax in 6 Inch with LF Solder FMTC701-6](#)

URL: <https://www.fairviewmicrowave.com/precision-1.0mm-male-1.0mm-female-cable-fm-tc100-coax-fmtc701-6-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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TITLE Precision 1.0mm Male to 1.0mm Female Cable FM-TC110 Coax in 6 Inch with LF Solder	DWG NO FMTC701		CAGE CODE 3FKR5		
	CAD FILE 031116	SHEET	SCALE N/A	SIZE A	2233