

## 2.4mm Male to 2.4mm Female Cable FM160FLEX Coax

The 2.4mm male to 2.4mm female cable using FM160FLEX coax, part number FMC4050914, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm cable assembly has a male to female gender configuration with 50 ohm flexible FM-160FLEX coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC4050914 2.4mm male to 2.4mm female cable assembly operates to 40 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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		40	GHz
VSWR			1.35:1	
Return Loss			-16.54	dB
Velocity of Propagation		76		%
RF Shielding	90			dB
Capacitance		26 [85.3]		pF/ft [pF/m]
Inductance		66 [216.54]		uH/ft [uH/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	6	12	26	40	GHz
Insertion Loss (Max.)	0.22	0.32	0.48	0.75	0.97	dB/ft
	0.72	1.05	1.57	2.46	3.18	dB/m
VSWR (Max.)	1.35:1	1.35:1	1.35:1	1.35:1	1.35:1	
Power Handling (Max.)	620	420	290	190	150	W

### Mechanical Specifications

#### Cable Assembly

Length\* 0 in [0 mm]  
 Weight 0.07143 lbs [32.4 g]

#### Cable

Cable Type FM-160FLEX  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 3



### Configuration:

- 2.4mm Male
- 2.4mm Female
- FM-160FLEX

### Features:

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Triple Shielded
- ETFE Jacket

### Applications:

- General Purpose
- Laboratory Use

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Shield Layer 1	Silver Plated Copper
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper
Jacket Material	ETFE, Gray
Jacket Diameter	0.16 in [4.06 mm]

Repeated Minimum Bend Radius      1 in [25.4 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Female
Specification		IEEE-STD-P287
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Copper Clad Steel, Gold	Copper Clad Steel, Gold
Contact Plating Spec.	ASTM-B488 50µ In. minimum	ASTM-B488 50µ In. minimum
Dielectric Type	PEI	PEI
Outer Cond Material & Plating		Passivated Stainless Steel
Outer Cond Plating Spec.		SAE-AMS-2700
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material & Plating	Passivated Stainless Steel	
Coupling Nut Plating Spec.	SAE-AMS-2700	
Hex Size	5/16 Inch	
Torque	8 in-lbs 0.9 Nm	

**Environmental Specifications**
**Temperature**

Operating Range	-65 to +165 deg C
Storage Range	-65 to +200 deg C

**Compliance Certifications** (see [product page](#) for current document)

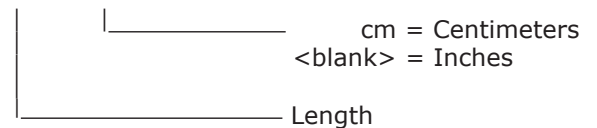
**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMC4050914 - xx uu**



Example: FMC4050914-12 = 12 inches long cable  
 FMC4050914-100cm = 100 cm long cable

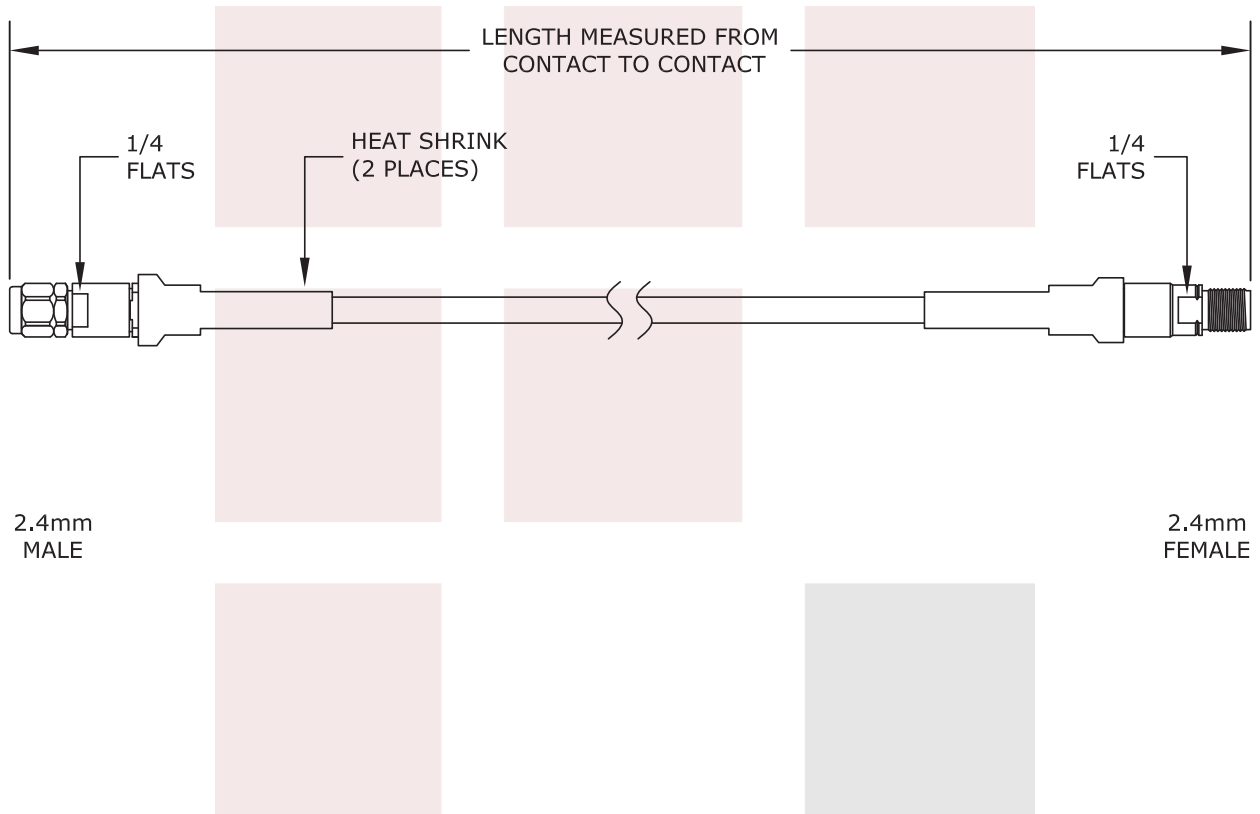
2.4mm Male to 2.4mm Female Cable FM160FLEX Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [2.4mm Male to 2.4mm Female Cable FM160FLEX Coax FMC4050914](#)

URL: <https://www.fairviewmicrowave.com/2.4mm-male-2.4mm-female-cable-fm160flex-coax-fmc4050914-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 2.4mm Male to 2.4mm Female Cable FM160FLEX Coax		DWG NO FMC4050914		CAGE CODE 3FKR5	
CAD FILE	021915	SHEET	SCALE	N/A	SIZE A 2233