

## Test 2.92mm Male to 2.92mm Female Cable FM160FLEX Coax

The 2.92mm male to 2.92mm female cable using FM160FLEX coax, part number FMC2949914, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm 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 FMC2949914 2.92mm male to 2.92mm 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			1.4:1	
Velocity of Propagation		76		%
RF Shielding	90			dB
Capacitance		25 [82.02]		pF/ft [pF/m]
Inductance		66 [216.54]		uH/ft [uH/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	3	6	12	GHz
Insertion Loss (Typ.)	0.9	0.13	0.23	0.33	0.48	dB/ft
	2.95	0.43	0.75	1.08	1.57	dB/m
Power Handling (Max.)	1,520	1,070	610	420	290	W

Description	F6	F7	F8	F9	F10	Units
Frequency	18	26	32	40		GHz
Insertion Loss (Typ.)	0.61	0.75	0.85	0.97		dB
	2	2.46	2.79	3.18		dB

### Mechanical Specifications

#### Cable Assembly

Length\* 0 in [0 mm]  
 Weight 0.014 lbs [6.35 g]

#### Cable

Cable Type FM-160FLEX  
 Impedance 50 Ohms



### Configuration:

- 2.92mm Male
- 2.92mm Female
- FM-160FLEX

### Features:

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

### Applications:

- General Purpose
- Test & Measurement
- Laboratory Use

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Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PPO
Number of Shields	3
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]
One Time Minimum Bend Radius	0.8 in [20.32 mm]
Repeated Minimum Bend Radius	0.24 in [6.1 mm]
Typical Flex Cycles	10,000

**Connectors**

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Configuration	Straight	Straight
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488 50µ In. Min	ASTM-B488 50µ In. Minimum
Dielectric Type	PPO	PPO
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	

Mechanical Specification Notes:  
 IEEE-STD-P287. Figure G.4. Except Conductor Tolerances and Contact Retention.

**Environmental Specifications**
**Temperature**

Operating Range -40 to +85 deg C

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

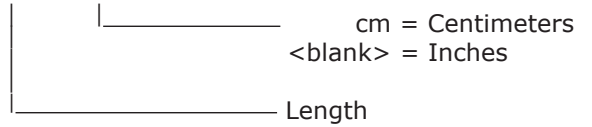
**Plotted and Other Data**

Notes:

### How to Order

Part Number Configuration:

**FMC2949914 - xx uu**



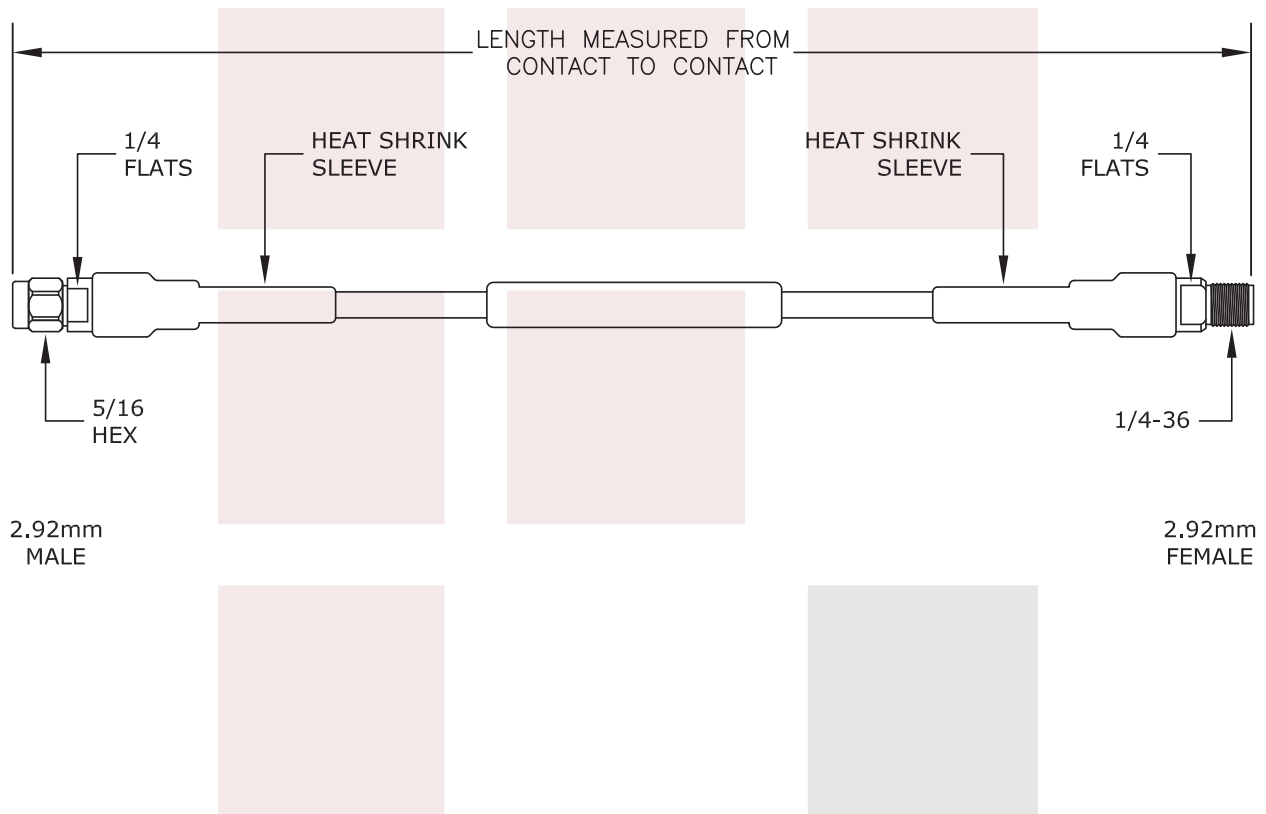
Example: FMC2949914-12 = 12 inches long cable  
FMC2949914-100cm = 100 cm long cable

Test 2.92mm Male to 2.92mm 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: [Test 2.92mm Male to 2.92mm Female Cable FM160FLEX Coax FMC2949914](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-male-2.92mm-female-cable-fm160flex-coax-fmc2949914-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.



**NOTE:**  
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

<b>FAIRVIEW MICROWAVE INC.</b> ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE Test 2.92mm Male to 2.92mm Female Cable FM160FLEX Coax		DWG NO FMC2949914		CAGE CODE 3FKR5	
CAD FILE	021915	SHEET		SCALE	N/A
		SIZE	A		2233