

2.4mm Male to 2.4mm Male Cable FM160FLEX Coax in 100 cm

FMC4040914-100CM



Configuration

- Connector 1: 2.4mm Male
- Connector 2: 2.4mm Male
- Cable Type: FM-160FLEX
- Coax Flex Type: Flexible

Features

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 78% Phase Velocity
- Triple Shielded
- ETFE Jacket
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Applications

- General Purpose
- Laboratory Use
- General Purpose
- Laboratory Use

Description

The 2.4mm male to 2.4mm male 100 cm cable using FM160FLEX coax, part number FMC4040914-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm cable assembly has a male to male 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 FMC4040914-100CM 2.4mm male to 2.4mm male cable assembly operates to 40 GHz. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB. The 2.4mm male to 2.4mm male 100 cm cable using FM160FLEX coax, part number FMC4040914-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm cable assembly has a male to male 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 FMC4040914-100CM 2.4mm male to 2.4mm male 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.

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.5:1	
Velocity of Propagation		78		%
RF Shielding	90			dB
Capacitance		26 [85.3]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	6	12	26	40	GHz
Insertion Loss (Typ.)	0.73	1.05	1.58	2.47	3.19	dB

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as $0.05 \times \sqrt{f(\text{GHz})}$ dB per connector.

Mechanical Specifications

Cable Assembly

Length	39.37 in [100 cm]
Weight	0.215 lbs [97.52 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
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper Braid
Jacket Material	ETFE, Gray
Jacket Diameter	0.155 in [3.94 mm]
Repeated Minimum Bend Radius	0.8 in [20.32 mm]
Typical Flex Cycles	10,000

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Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Color	SV	SV
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488	ASTM-B488
Dielectric Type	PPO	PPO
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm

Environmental Specifications

Operating Range Temperature

-45 to +125 deg C

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

Plotted and Other Data

Notes:

2.4mm Male to 2.4mm Male Cable FM160FLEX Coax in 100 cm

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Typical Performance Data

How to Order

Part Number Configuration: **FMC4040914** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMC4040914-12 = 12 inches long cable
FMC4040914-100cm = 100 cm long cable

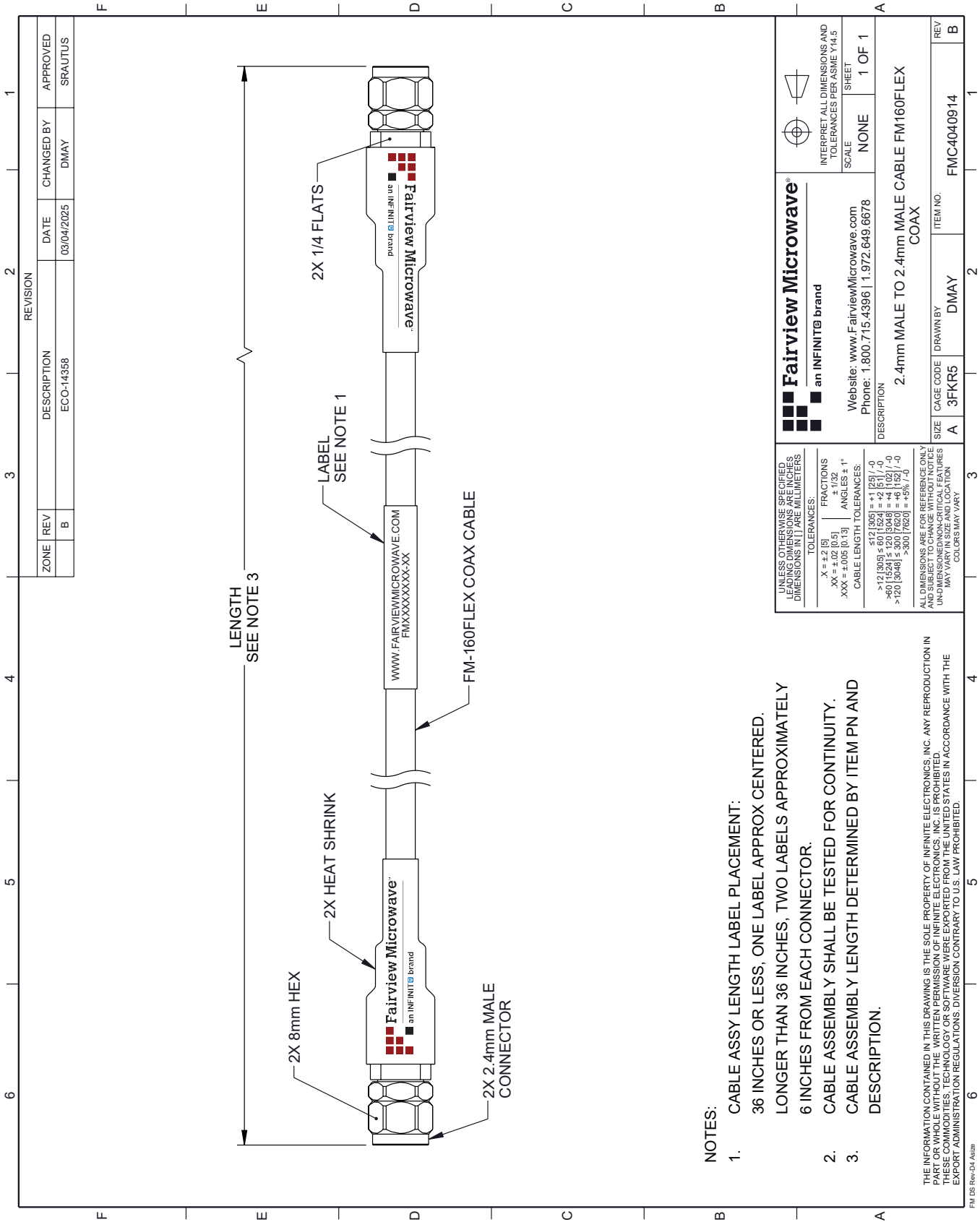
2.4mm Male to 2.4mm Male Cable FM160FLEX Coax in 100 cm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.4mm Male to 2.4mm Male Cable FM160FLEX Coax in 100 cm FMC4040914-100CM](https://www.fairviewmicrowave.com/2.4mm-male-2.4mm-male-cable-fm160flex-coax-fmc4040914-100cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/2.4mm-male-2.4mm-male-cable-fm160flex-coax-fmc4040914-100cm-p.aspx>

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FMC4040914-100CM CAD Drawing
2.4mm Male to 2.4mm Male Cable FM160FLEX Coax in 100 cm



NOTES:

- 1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- 2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
- 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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FM DS Rev-D4 Asize

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TOLERANCES:		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		SCALE NONE	
X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]		FRACTIONS ± 1/32 ANGLES ± 1°		SHEET 1 OF 1	
CABLE LENGTH TOLERANCES:		DESCRIPTION 2.4mm MALE TO 2.4mm MALE CABLE FM160FLEX COAX			
<12 [305] ±.60 [1524] = ±1 [25] / -0					
>12 [305] ±.60 [1524] = ±1 [25] / -0					
>40 [1024] ±.120 [3048] = ±4 [102] / -0					
>120 [3048] ±.150 [3810] = ±6 [127] / -0					
>300 [7620] ±.150 [3810] = ±6 [127] / -0					
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