



FMC4040914

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

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Description

The 2.4mm male to 2.4mm male cable using FM160FLEX coax, part number FMC4040914, 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 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 cable using FM160FLEX coax, part number FMC4040914, 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 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.)	0.22	0.32	0.48	0.75	0.97	dB/ft
	0.72	1.05	1.57	2.46	3.18	dB/m

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as 0.05 x sqrt(fGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Weight lbs [0 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 Shield Layer 1 Silver Plated Copper Braid Shield Layer 2 Aluminum Tape

Shield Layer 3 Silver Plated Copper Braid ETFE, Gray Jacket Material

0.155 in [3.94 mm] Jacket Diameter

Repeated Minimum Bend Radius 0.8 in [20.32 mm] 10,000

Typical Flex Cycles





FMC4040914

Connectors

Description	Connector 1	Connector 2		
Туре	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:





FMC4040914

Typical Performance Data

How to Order



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

2.4mm Male to 2.4mm Male Cable FM160FLEX Coax 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 ondemand.

For additional information on this product, please click the following link: 2.4mm Male to 2.4mm Male Cable FM160FLEX Coax FMC4040914

URL: https://www.fairviewmicrowave.com/2.4mm-male-to-2.4mm-male-cable-fm160flex-coax-fmc4040914-p.aspx

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