



FMC4050914

Configuration

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

Features

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

Applications

· General Purpose

· Laboratory Use

Description

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	Minimum	Typical	Maximum	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]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	3	6	12	26	40	GHz





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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
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	Watts

Mechanical Specifications

Cable Assembly

Weight 0.07143 lbs [32.4 g]

Cable

Cable TypeFM-160FLEXImpedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper, Silver Dielectric Type PTFE

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 MaterialETFE, GrayJacket Diameter0.16 in [4.06 mm]Repeated Minimum Bend Radius1 in [25.4 mm]





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Connectors

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

Environmental Specifications

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

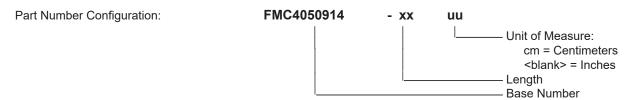




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Typical Performance Data

How to Order



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 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 Female Cable FM160FLEX Coax FMC4050914

URL: https://www.fairviewmicrowave.com/2.4mm-male-2.4mm-female-cable-fm160flex-coax-fmc4050914-p.aspx

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