

# FMC00924-50CM DATA SHEET

# Fire Rated Low Loss SMA Male to SMA Male Cable LMR-400-FR Coax in 50 cm

The SMA male to SMA male 50 cm cable using LMR-400-FR coax, part number FMC00924-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-FR coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00924-50CM SMA male to SMA male cable assembly operates to 5.8 GHz. The double 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	Т	Typ Max		Units	
Frequency Range	DC			5.8		GHz
VSWR				1.5:1		
Velocity of Propagation			84			%
RF Shielding	90					dB
Group Delay		1.2	[3.94]		ns/f	t [ns/m]
Capacitance		23.9	[78.41]		pF/f	t [pF/m]
Inductance		0.06	5 [0.2]		uH/f	t [uH/m]
DC Resistance Inner Conductor			[4.56]		Ω/100	Oft [Ω/Km
DC Resistance Outer Conductor		1.65	[5.41]		Ω/100	Oft [Ω/Km
Dielectric Withstanding Voltage (DC)				500		Vdc
Jacket Spark				8,000	\	/rms

# **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.39	0.48	0.6	0.86	1.26	dB

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

# **Mechanical Specifications**

# **Cable Assembly**

Length\* 19.68 in [499.87 mm] Weight 0.146 lbs [66.22 g]

#### Cable

Cable Type LMR-400-FR



# **Configuration:**

- SMA Male
- SMA Male
- LMR-400-FR

# **Features:**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- FRPE Jacket

# **Applications:**

- General Purpose
- Laboratory Use

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Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypeFoam PE

Number of Shields 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper
Jacket Material FRPE, Black

Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]
Repeated Minimum Bend Radius 4 in [101.6 mm]
Bending Moment 0.5 lbs-ft [0.68 N-m]

Flat Plate Crush 40 lbs/in [0.71 Kg/mm] Tensile Strength 160 lbs [72.57 Kg]

#### **Connectors**

Description	Connector 1	Connector 2		
Туре	SMA Male	SMA Male		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Brass, Gold	Brass, Gold		
Contact Plating Spec.	50µ" Min	50μ″ Minimum		
Dielectric Type	Teflon	Teflon		
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Coupling Nut Material & Platin	ng Brass, Tri-Metal	Brass, Tri-Metal		

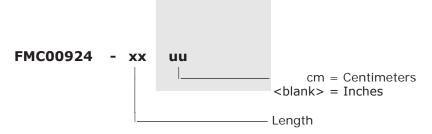
# **Compliance Certifications** (see product page for current document)



Notes:

#### **How to Order**

Part Number Configuration:



Example: FMC00924-12 = 12 inches long cable

FMC00924-100cm = 100 cm long cable





Fire Rated Low Loss SMA Male to SMA Male Cable LMR-400-FR Coax in 50 cm 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: Fire Rated Low Loss SMA Male to SMA Male Cable LMR-400-FR Coax in 50 cm FMC00924-50CM

URL: https://www.fairviewmicrowave.com/fire-rated-low-loss-sma-male-to-sma-male-cable-lmr-400-fr-coax-fmc00924-50cm-p.aspx







