

## SMC Plug to MMCX Jack Cable RG-316 Coax in 100 CM



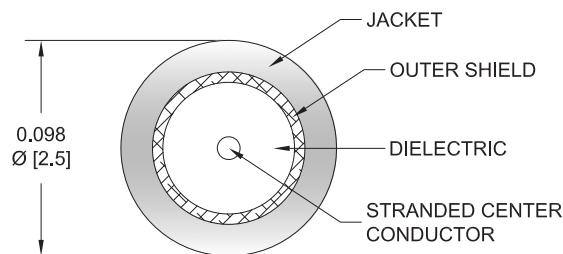
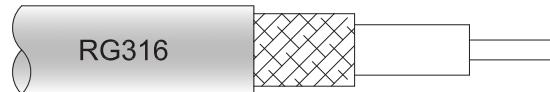
### FMC00324-100CM

#### Configuration

- Connector 1: SMC Plug
- Connector 2: MMCX Jack
- Cable Type: RG316
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

The SMC plug to MMCX jack 100 cm cable using RG-316 coax, part number FMC00324-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMC to MMCX cable assembly has a plug to jack gender configuration with 50 ohm flexible RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00324-100CM SMC plug to MMCX jack cable assembly operates to 3 GHz.

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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.56	0.72	0.98	1.44	2.1	dB

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#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable 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	39.37 in [100 cm]
Width/Diameter	0.5 in [12.7 mm]

##### Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.102 in [2.59 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	SMC Plug	MMCX Jack
Specification	MIL-STD-348A	BS EN 122340
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	3 $\mu$ in minimum	3 $\mu$ in minimum
Coupling Nut Material and Plating	Brass, Gold	
Coupling Nut Plating Specification	3 $\mu$ in minimum	
Hex Size	1/4 inch	

#### Environmental Specifications

Operating Range Temperature -55 to +200 deg C

#### Compliance Certifications

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

#### Plotted and Other Data

Notes:

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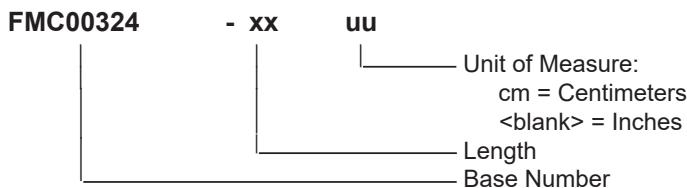


### **FMC00324-100CM**

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: FMC00324-12 = 12 inches long cable  
FMC00324-100cm = 100 cm long cable

SMC Plug to MMCX Jack Cable RG-316 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: [SMC Plug to MMCX Jack Cable RG-316 Coax in 100 CM](#)  
[FMC00324-100CM](#)

URL: <https://www.fairviewmicrowave.com/smc-plug-mmcx-jack-cable-rg316-coax-fmc00324-100cm-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# FMC00324-100CM CAD Drawing

SMC Plug to MMCX Jack Cable RG-316 Coax in 100 CM

