

## FMC00323-48 DATA SHEET

# Low Loss SSMC Plug to SMB Plug Cable RG-316 Coax in 48 Inch

The SSMC plug to SMB plug 48 inch cable using RG-316 coax, part number FMC00323-48, from Fairview Microwave is in-stock and ships same day. This Fairview SSMC to SMB cable assembly has a plug to plug 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 FMC00323-48 SSMC plug to SMB plug 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	Min	Т	ур	Max	U	Inits
Frequency Range	DC			3		GHz
VSWR				1.4:1		
Velocity of Propagation		(	59			%
Capacitance		29.4	[96.46]		pF/fi	t [pF/m]
Jacket Spark				2,000	V	/rms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.63	0.83	1.15	1.72	2.51	dB

#### 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\* 48 in [121.92 cm]

#### Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Jacket Material
Jacket Diameter

RG316 50 Ohms Stranded

Copper Clad Steel, Silver PTFE

1

Silver Plated Copper Braid

FEP, Tan

0.102 in [2.59 mm]



## **Configuration:**

- SSMC Plug
- SMB Plug
- RG316

## **Features:**

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

## **Applications:**

- General Purpose
- Laboratory Use

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#### **Connectors**

Description	Connector 1	Connector 2
Туре	SSMC Plug	SMB Plug
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material & Plating	Beryllium Copper, G	old Beryllium Copper, Gold
Contact Plating Spec.		30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Beryllium Copper, G	old Brass, Gold
Body Plating Spec.		3 µin minimum
Coupling Nut Material & Pla	ting Brass, Gold	
Hex Size	5/32 inch	

## **Environmental Specifications**

**Temperature** 

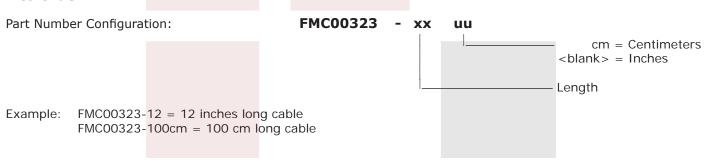
Operating Range -55 to +200 deg C

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

## **Plotted and Other Data**

Notes:

#### **How to Order**



Low Loss SSMC Plug to SMB Plug Cable RG-316 Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Low Loss SSMC Plug to SMB Plug Cable RG-316 Coax in 48 Inch FMC00323-48

URL: https://www.fairviewmicrowave.com/low-loss-ssmc-plug-smb-plug-cable-rg316-coax-fmc00323-48-p.aspx

The information contained in 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 any liability arising out of the use of any part or documentation.

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