

## FMC00309-50CM DATA SHEET

# Low Loss N Male to SMB Plug Cable RG-316 Coax in 50 CM

The type N male to SMB plug 50 cm cable using RG-316 coax, part number FMC00309-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMB cable assembly has a male 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 FMC00309-50CM type N male 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	nits
Frequency Range	DC			3		GHz
VSWR				1.4:1		
Velocity of Propagation		(	59			%
Capacitance		29.4	[96.46	]	pF/ft	[pF/m]
Operating Voltage (AC)				335	V	'rms
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.)	0.38	0.46	0.59	0.82	1.15	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**

Jacket Diameter

Length\* 19.68 in [499.87 mm]
Diameter 0.827 in [21.01 mm]

### Cable

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

RG316 50 Ohms Stranded Copper Clad Steel, Silver PTFE

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Silver Plated Copper Braid

FEP, Tan

0.102 in [2.59 mm]



## **Configuration:**

- N Male
- SMB Plug
- RG316

## **Features:**

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

## **Applications:**

- General Purpose
- Laboratory Use

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





#### **Connectors**

Description	Connector 1			Connector 2			
Туре	N Male	N Male		SMB Plug			
Specification					MIL-STD-348A		
Impedance	50 Ohms		50 Ohms				
Mating Cycles	500						
Contact Material & Plating	Beryllium Cop	Beryllium Copper, Gold		Beryllium Copper, Gold		ld	
Contact Plating Spec.				30 µin minir	num		
Dielectric Type	PTFE			PTFE			
Body Material & Plating	Brass, Ni	ckel		Brass, Gold			
Body Plating Spec.				3 µin minimum			
Coupling Nut Material & Pla	nting Brass, Ni	ckel					

## **Environmental Specifications**

**Temperature** 

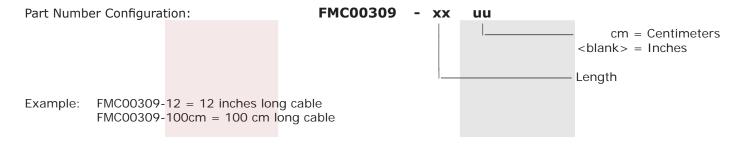
Operating Range -55 to +200 deg C

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

#### **Plotted and Other Data**

Notes:

## **How to Order**



Low Loss N Male to SMB Plug Cable RG-316 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: Low Loss N Male to SMB Plug Cable RG-316 Coax in 50 CM FMC00309-50CM

URL: https://www.fairviewmicrowave.com/n-male-smb-plug-cable-rg316-coax-fmc00309-50cm-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.

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





