

FMC00309-100CM DATA SHEET

Low Loss N Male to SMB Plug Cable RG-316 Coax in 100 CM

The type N male to SMB plug 100 cm cable using RG-316 coax, part number FMC00309-100CM, 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 FMC00309-100CM 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	T	ур Мах	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		ϵ	59	%
Capacitance		29.4 [96.46]	pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms
Jacket Spark			2,000	Vrms

Performance 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

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]

 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 1

Silver Plated Copper Braid FEP, Tan



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





Jacket Diameter

0.102 in [2.59 mm]

Connectors

Description	Connect	or 1		Connector 2				
Туре	N Mal	е		SMB Plug				
Specification				MIL-STD-348A				
Impedance	50 Ohr	ns		50 Ohms				
Mating Cycles	500							
Contact Material & Plating	Beryllium Cop	per, G	old	Beryllium Copper, Gold				
Contact Plating Spec.				30 µin minir	num			
Dielectric Type	PTFE			PTFE				
Body Material & Plating	Brass, N	ickel		Brass, Gold				
Body Plating Spec.				3 µin minim	num			
Coupling Nut Material & Pla	ating Brass, N	ickel						
		_						

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

Part Number Configuration:

FMC00309 - xx uu

cm = Centimeters

clank> = Inches

Length

Example: FMC00309-12 = 12 inches long cable
FMC00309-100cm = 100 cm long cable

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





Low Loss N Male to SMB Plug Cable RG-316 Coax in 100 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 100 CM FMC00309-100CM

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

URL: https://www.fairviewmicrowave.com/n-male-smb-plug-cable-rg316-coax-fmc00309-100cm-p.aspx

o impleme	nt improver	ments.	Fairview	Microwa	ave reserve	s the righ	nt to mak	e such	changes	as req	uired.	Unless	other	wise
	specificatior													
	of the part of					purpose,	and Fair	view M	licrowave	does	not ass	sume a	ny liat	oility
rising out	of the use of	of any p	art or do	cument	ation.									





