



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

The type N male to SMB plug cable using RG-316 coax, part number FMC00309, 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 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
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.)	0.1	0.15	0.23	0.37	0.57	dB/ft
	0.33	0.49	0.75	1.21	1.87	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1~\mathrm{dB}$ per connector

Mechanical Specifications

Cable Assembly

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
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:

- N Male
- 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	N Male	SMB Plug		
Specification		MIL-STD-348A		
Impedance	50 Ohms	50 Ohms		
Mating Cycles	500			
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Spec.		30 µin minimum		
Dielectric Type	PTFE	PTFE		
Body Material & Plating	Brass, Nickel	Brass, Gold		
Body Plating Spec.		3 µin minimum		
Coupling Nut Material & Plating	Brass, Nickel			

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Temperature

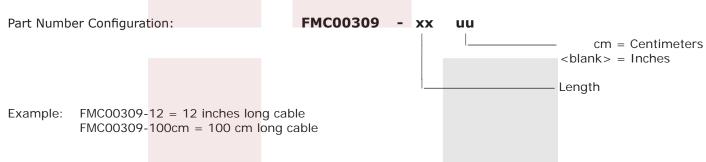
-55 to +200 deg C Operating Range

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 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 FMC00309

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

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