

FMC00238-60 DATA SHEET

Low Loss SMA Male to RA Push-On SMP Female Cable RG-316 Coax in 60 Inch

The SMA male to RA SMP female push-on 60 inch cable using RG-316 coax, part number FMC00238-60, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMP cable assembly has a male to female 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 FMC00238-60 SMA male to SMP female cable assembly operates to 3 GHz. The right angle SMP interface on the RG316 cable allows for easier connections in tight spaces.

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.



Description	Min	T	ур	Max	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)				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.)	0.85	1.1	1.49	2.2	3.19	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 for the straight connector and 0.2 dB for the right angle connector

Mechanical Specifications

Cable Assembly

Length* 60 in [152.4 cm]
Diameter 0.312 in [7.92 mm]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

RG316 50 Ohms Stranded Copper Clad Steel, Silver PTFE 1



Configuration:

- SMA Male
- Push-OnSMP Female Right Angle
- RG316

Features:

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

Applications:

- General Purpose
- Laboratory Use

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Shield Layer 1 Jacket Material Jacket Diameter Silver Plated Copper Braid FEP, Tan 0.102 in [2.59 mm]

Connectors

Description	Connector 1	Connector 2			
Туре	SMA Male	SMP Female			
Specification	MIL-STD-348A	MIL-STD-348A			
Impedance	50 Ohms	50 Ohms			
Connection Method		Push-On			
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold			
Contact Plating Spec.	50 μin minimum	n 30µ in. minimum			
Dielectric Type	PTFE	PTFE			
Outer Cond Material & Plati	ng	Beryllium Copper, Gold			
Outer Cond Plating Spec.		3μ in. minimum			
Body Material & Plating	Brass, Nickel	Brass, Gold			
Body Plating Spec.	100 µin minimur	n 3µ in. minimum			
Coupling Nut Material & Pla	iting Brass, Nickel				
Coupling Nut Plating Spec.	100 µin minimur	n			
Hex Size	5/16 inch				
Torque	3 in-lbs 0.34 Nr	n			

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Notes.

How to Order

Example: FMC00238-12 = 12 inches long cable

FMC00238-100cm = 100 cm long cable





Low Loss SMA Male to RA Push-On SMP Female Cable RG-316 Coax in 60 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 SMA Male to RA Push-On SMP Female Cable RG-316 Coax in 60 Inch FMC00238-60

URL: https://www.fairviewmicrowave.com/low-loss-sma-male-ra-smp-female-cable-rg316-coax-fmc00238-60-p.aspx







