



SMA Female to SMA Female Cable M17/113-RG316 Coax

The SMA female to SMA female cable using M17/113-RG316 coax, part number FMC01143, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a female to female gender configuration with 50 ohm flexible M17/113-RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC01143 SMA female to SMA female 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

Min	Т	ур	Max	Units
DC			3	GHz
			1.4:1	
	69.5		%	
	32 [104.99]		pF/ft [pF/m]	
			335	Vrms
		DC 60	DC 69.5	DC 3 1.4:1 69.5 32 [104.99]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.11	0.16	0.238	0.38	0.58	dB/ft
	0.36	0.52	0.78	1.25	1.9	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Cable

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

Repeated Minimum Bend Radius

M17/113-RG316 50 Ohms Stranded Copper Clad Steel, Silver PTFE 1 Silver Plated Copper Braid

Silver Plated Copper Braid FEP, Tan

0.098 in [2.49 mm]

0.5 in [12.7 mm]



Configuration:

- SMA Female
- SMA Female
- M17/113-RG316

Features:

- Max Frequency 3 GHz
- 69.5% 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	SMA Female	SMA Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gol	d Beryllium Copper, Gold
Contact Plating Spec.	50 μin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Gold	Brass, Gold
Outer Cond Plating Spec.	3 µin minimum	3 µin minimum
Hex Size	1/4 inch	1/4 inch

Environmental Specifications

Temperature

Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC01143 - xx uu | cm = Centimeters | cblank> = Inches | Length

Example: FMC01143-12 = 12 inches long cable FMC01143-100cm = 100 cm long cable

SMA Female to SMA Female Cable M17/113-RG316 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: SMA Female to SMA Female Cable M17/113-RG316 Coax FMC01143

URL: https://www.fairviewmicrowave.com/sma-female-to-sma-female-cable-m17-113-rg316-coax-fmc01143-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





