

RA SMA Male to RA SMP Female Cable FM-F086 Coax, 270 Degree Clocking

The RA SMA male to RA SMP female cable using FM-F086 coax, part number FMC0421085/SP1, 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 FM-F086 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC0421085/SP1 SMA male to SMP female cable assembly operates to 12.4 GHz. The right angle SMA and right angle SMP interfaces on the FM-F086 cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 110 dB.

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	Typ	Max	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		95 [311.68]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	12.4		GHz
Insertion Loss (Typ.)	0.23	0.353	0.52	0.89		dB/ft
	0.75	1.16	1.71	2.92		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.04 lbs [18.14 g]

Cable

Cable Type FM-F086
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Tape
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material FEP, Blue



Configuration:

- SMA Male Right Angle
- SMP Female Right Angle
- FM-F086

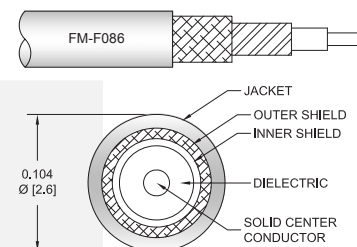
Features:

- Max Frequency 12.4 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use

Cable Diagram:



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Jacket Diameter 0.104 in [2.64 mm]

Repeated Minimum Bend Radius 0.5 in [12.7 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMP Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	50μ in. minimum	MIL-G-45204
Dielectric Type	Teflon	PTFE
Body Material & Plating	Stainless Steel, Gold	Beryllium Copper, Gold
Body Plating Spec.	3μ in. minimum	MIL-G-45204
Hex Size	5/16 inch	
Torque	8.5 in-lbs 0.96 Nm	

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration: **FMC0421085/SP1 - xx uu**

cm = Centimeters
 <blank> = Inches

Length

Example: FMC0421085/SP1-12 = 12 inches long cable
 FMC0421085/SP1-100cm = 100 cm long cable

RA SMA Male to RA SMP Female Cable FM-F086 Coax, 270 Degree Clocking 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: [RA SMA Male to RA SMP Female Cable FM-F086 Coax, 270 Degree Clocking FMC0421085/SP1](https://www.fairviewmicrowave.com/ra-sma-male-to-ra-smp-female-cable-fm-f086-coax-270-degree-clocking-fmc0421085-sp1)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-to-ra-smp-female-cable-fm-f086-coax-270-degree-clocking-fmc0421085-sp1-p.aspx>

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