

## RA SMA Male to RA SMP Female Cable FM-F086 Coax, 90 Degree Clocking

The RA SMA male to RA SMP female cable using FM-F086 coax, part number FMC0421085/SP2, 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/SP2 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

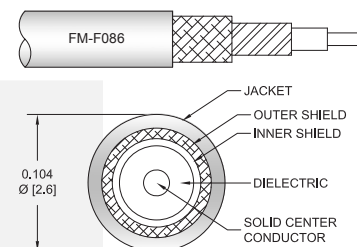
### Features:

- 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/SP2 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMC0421085/SP2-12 = 12 inches long cable  
 FMC0421085/SP2-100cm = 100 cm long cable

RA SMA Male to RA SMP Female Cable FM-F086 Coax, 90 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, 90 Degree Clocking FMC0421085/SP2](#)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-to-ra-smp-female-cable-fm-f086-coax-90-degree-clocking-fmc0421085-sp2-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.

