

# RA SMP Female to SMP Female Cable FM-F086 Coax



## FMC2122085/SP

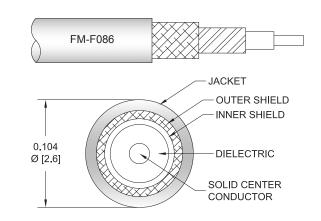
### Configuration

· Connector 1: SMP Female Right Angle

Connector 2: SMP FemaleCable Type: FM-F086Coax Flex Type: Flexible

#### **Features**

- Max Frequency 18 GHz
- 70.6% Phase Velocity
- · Double Shielded
- · FEP Jacket



### **Applications**

· General Purpose

· Laboratory Use

### **Description**

The RA SMP female to SMP female cable using FM-F086 coax, part number FMC2122085/SP, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to SMP cable assembly has a female 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 FMC2122085/SP SMP female to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the FM-F086 cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation	70.6 %			
Capacitance		pF/ft [pF/m]		

### Specifications by Frequency



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Part Number Length	Longth	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
	Frequency	1000	2000	4500	9000	18000	MHz	weight (ibs)	
FMC2122085/SP	Custom Lengths	Insertion Loss (Typ.)	0.19	0.28	0.43	0.69	0.951	dB/ft	
TWCZIZZU83/3F	Available		0.63	0.91	1.41	2.25	3.13	dB/m	
FMC2122085/SP-6	6 inch	Insertion Loss (Typ.)	0.4	0.44	0.52	0.65	0.78	dB	0.017
FMC2122085/SP-12	12 inch	Insertion Loss (Typ.)	0.5	0.58	0.73	0.99	1.26	dB	0.023
FMC2122085/SP-24	24 inch	Insertion Loss (Typ.)	0.69	0.86	1.16	1.67	2.21	dB	0.037
FMC2122085/SP-36	36 inch	Insertion Loss (Typ.)	0.88	1.14	1.59	2.36	3.16	dB	0.05
FMC2122085/SP-48	48 inch	Insertion Loss (Typ.)	1.07	1.41	2.02	3.04	4.11	dB	0.063

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:0.2 dBLoss due to Connector 2:0.1 dBBase Weight:0.023 poundsAdditional Weight per Inch:0.00109 pounds

### **Mechanical Specifications**

**Cable Assembly** 

Weight 0.023 lbs [10.43 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

Jacket Diameter 0.104 in [2.64 mm]

# Connectors

Description	Connector 1	Connector 2
Туре	SMP Female Right Angle	SMP Female
Specification	MIL-STD-348	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	30μ in. minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Conductor Plating Specification	MIL-G-45204	3 μin minimum



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### **Environmental Specifications**

Operating Range Temperature

-55 to +125 deg C

**Compliance Certifications** (see product page for current document)

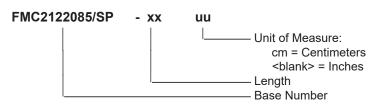
**Plotted and Other Data** 

Notes:

**Typical Performance Data** 

**How to Order** 

Part Number Configuration:



Example: FMC2122085/SP-12 = 12 inches long cable

FMC2122085/SP-100cm = 100 cm long cable

RA SMP Female to SMP Female Cable FM-F086 Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/ microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF ondemand.

For additional information on this product, please click the following link: RA SMP Female to SMP Female Cable FM-F086 Coax FMC2122085/SP

URL: https://www.fairviewmicrowave.com/ra-smp-female-to-smp-female-cable-fm-f086-coax-fmc2122085-sp-p.aspx

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