

## RA SMP Female to RA SMP Female Cable FM-F086 Coax in 48 Inch with LF Solder

The RA SMP female to RA SMP female 48 inch cable using FM-F086 coax, part number FMC2121085LF-48, 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 FMC2121085LF-48 SMP female to SMP female cable assembly operates to 18 GHz. The 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.

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		18	GHz
VSWR			1.4:1	
Velocity of Propagation		70.6		%
Capacitance	28.95 [94.98]			pF/ft [pF/m]

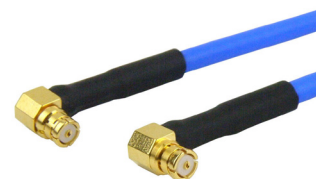
### Mechanical Specifications

#### Cable Assembly

Length*	48 in [121.92 cm]
Weight	0.106 lbs [48.08 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]



### Configuration:

- SMP Female Right Angle
- SMP Female Right Angle
- FM-F086

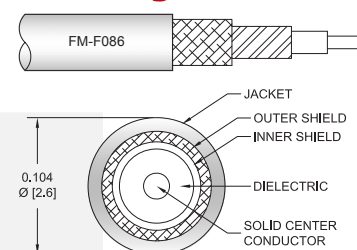
### Features:

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

### Applications:

- General Purpose
- Laboratory Use

### Cable Diagram:



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[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Connectors

Description	Connector 1	Connector 2
Type	SMP Female	SMP Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Plating Spec.	MIL-G-45204	MIL-G-45204

## Environmental Specifications

### Temperature

Operating Range

-65 to +165 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMC2121085LF - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

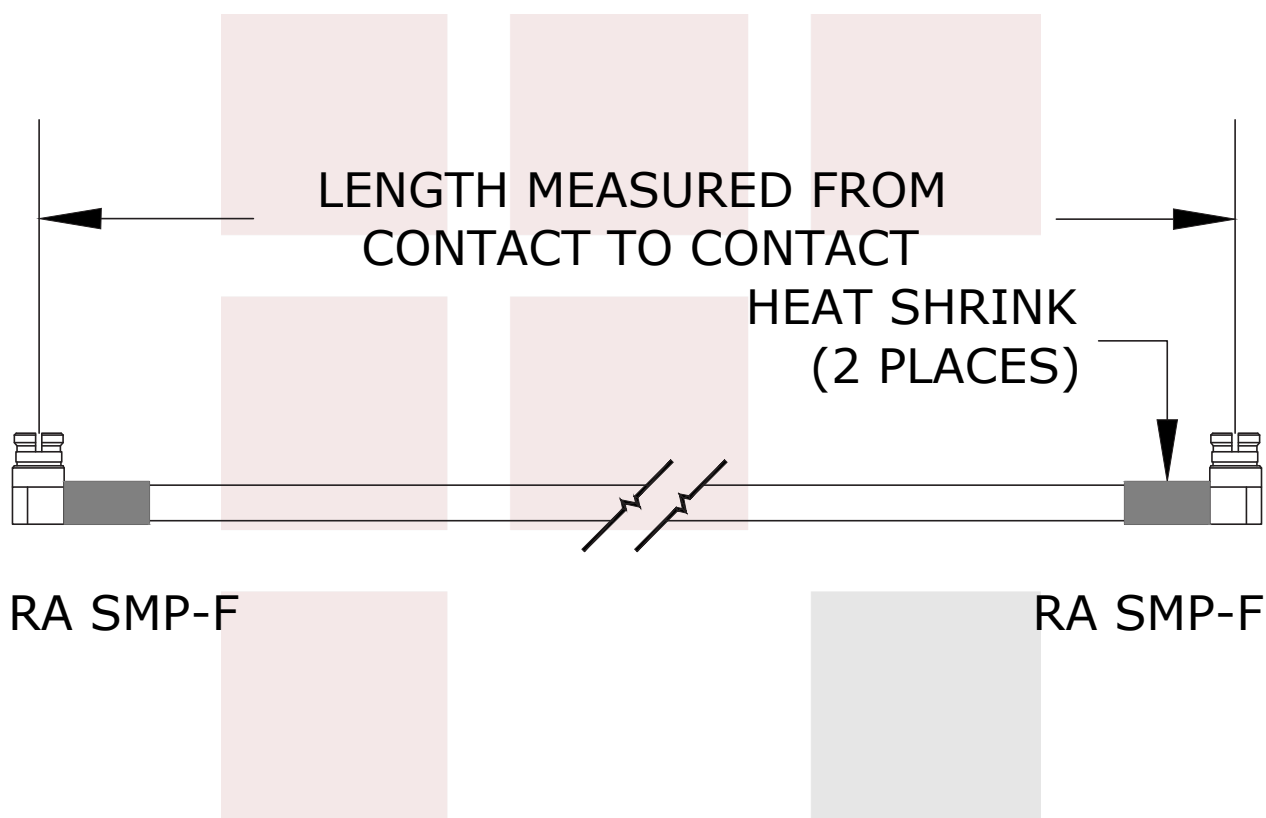
Example: FMC2121085LF-12 = 12 inches long cable  
 FMC2121085LF-100cm = 100 cm long cable

RA SMP Female to RA SMP Female Cable FM-F086 Coax in 48 Inch with LF Solder 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 SMP Female to RA SMP Female Cable FM-F086 Coax in 48 Inch with LF Solder FMC2121085LF-48](#)

URL: <https://www.fairviewmicrowave.com/standard-ra-smp-female-ra-smp-female-cable-fmf086-coax-fmc2121085lf-48-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.



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TITLE RA SMP Female to RA SMP Female Cable FM-F086 Coax in 48 Inch with LF Solder		DWG NO FMC2121085LF		CAGE CODE 3FKR5	
CAD FILE	103114	SHEET	SCALE	N/A	SIZE A 5568