

SMP Female to RA SMP Female Cable FM-F086 Coax in 5.6 Inch

The SMP female to RA SMP female 5.6 inch cable using FM-F086 coax, part number SCA69086, 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 SCA69086 SMP female to SMP female cable assembly operates to 12 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. The SMP female to RA SMP female cable using FM-F086 coax, part number SCA69086, 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 SCA69086 SMP female to SMP female cable assembly operates to 12 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.

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Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		12	GHz
VSWR			1.35:1	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	18			GHz
Insertion Loss (Typ.)	0.23	0.8	1.1			dB

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as $0.05 \times \sqrt{f(\text{GHz})}$ dB per connector.

Mechanical Specifications

Cable Assembly

Length* 5.6 in [142.24 mm]



Configuration:

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

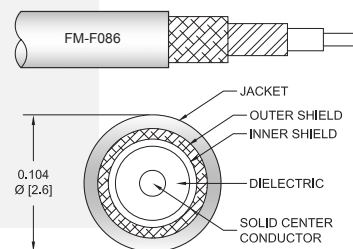
Features:

- Max Frequency 12 GHz
- Double Shielded
- FEP Jacket
- Max Frequency 12 GHz
- Double Shielded
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use
- General Purpose
- Laboratory Use

Cable Diagram:



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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
Type	SMP Female	SMP Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

SCA69086 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

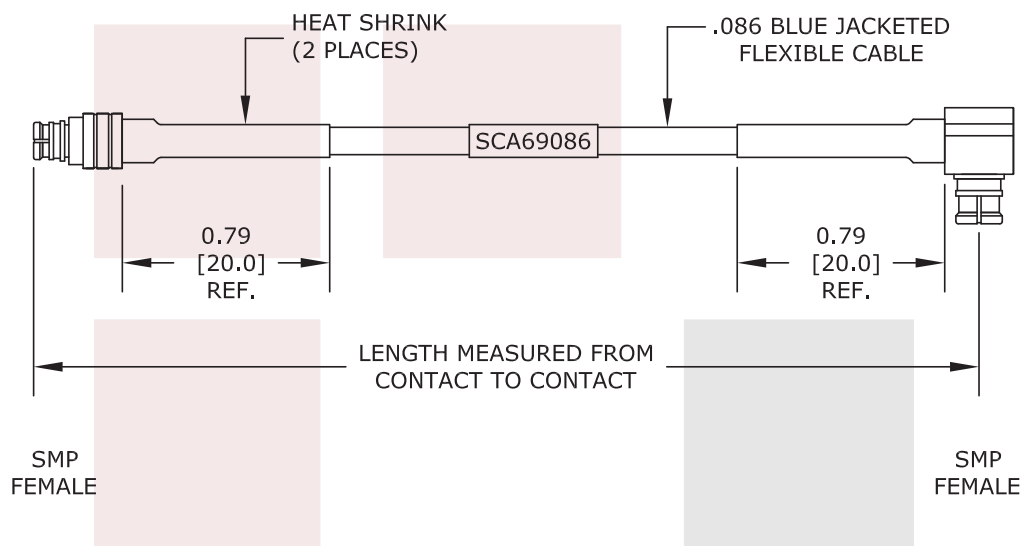
Example: SCA69086-12 = 12 inches long cable
 SCA69086-100cm = 100 cm long cable

SMP Female to RA SMP Female Cable FM-F086 Coax in 5.6 Inch 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: [SMP Female to RA SMP Female Cable FM-F086 Coax in 5.6 Inch SCA69086](#)

URL: <https://www.fairviewmicrowave.com/smp-female-ra-smp-female-cable-rg-405-coax-sca69086-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.



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.

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NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE SMP Female to RA SMP Female Cable FM-F086 Coax in 5.6 Inch	DWG NO SCA69086		CAGE CODE 3FKR5		
	CAD FILE 102016	SHEET	SCALE N/A	SIZE A	41742