

SMP Female to RA Mini SMP Female Cable RG405 Type .086 Coax with Heat Shrink in 12 Inch

The SMP female to RA Mini SMP female 12 inch cable using RG405 type .086 coax, part number FMC00937-12, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to Mini SMP cable assembly has a female to female gender configuration with 50 ohm semi-rigid FM-SR086ALTN coax. Fairview Microwave's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. The FMC00937-12 SMP female to Mini SMP female cable assembly operates to 18 GHz. The right angle Mini SMP interface on the FM-SR086ALTN cable allows for easier connections in tight spaces.

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	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.53	0.6	0.76	1.05	1.51	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per SMP connector and 0.2 dB per Mini SMP Connector.

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Weight	0.007 lbs [3.18 g]

Cable

Cable Type	FM-SR086ALTN
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	0
Outer Conductor Material and Plating	Aluminum, Tin
One Time Minimum Bend Radius	0.07 in [1.78 mm]



Configuration:

- SMP Female
- Mini SMP Female Right Angle
- FM-SR086ALTN

Features:

- Max Frequency 18 GHz

Applications:

- General Purpose
- Laboratory Use

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Connectors

Description	Connector 1	Connector 2
Type	SMP Female	Mini SMP Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	30 µin minimum	MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Cond Plating Spec.	3 µin minimum	
Body Material & Plating		Beryllium Copper, Gold
Body Plating Spec.		MIL-G-45204

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:

FMC00937 - xx uu

cm = Centimeters

<blank> = Inches

Length

Example: FMC00937-12 = 12 inches long cable
 FMC00937-100cm = 100 cm long cable

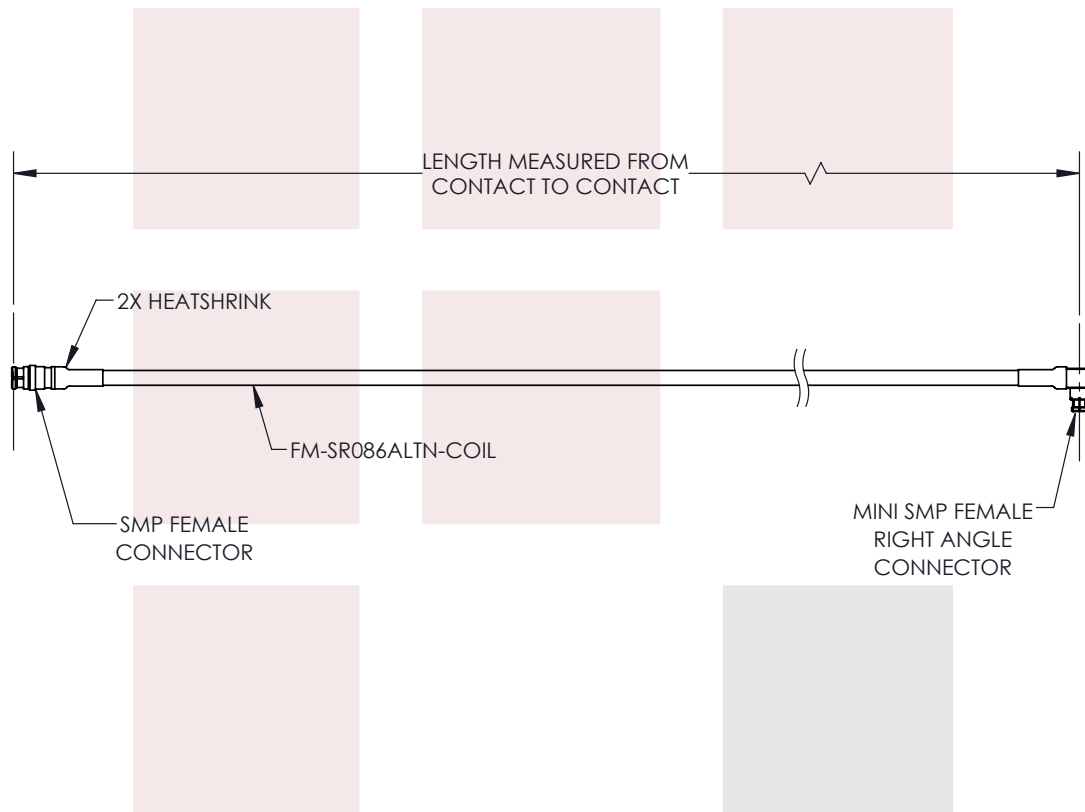
SMP Female to RA Mini SMP Female Cable RG405 Type .086 Coax with Heat Shrink in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMP Female to RA Mini SMP Female Cable RG405 Type .086 Coax with Heat Shrink in 12 Inch FMC00937-12](#)

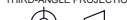
URL: <https://www.fairviewmicrowave.com/smp-female-ra-mini-smp-female-cable-rg405-type-.086-coax-fmc00937-12-p.aspx>

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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/10/2022	AGANWANI



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Fairview Microwave an INFINITI® brand		UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: CABLE LENGTH (L) TOLERANCES: .X = ±.2 [.508] FRACTIONS ± 1/32 .XX = ±.02 [.51] ± 1/32 .XXX = ±.005 [.13] ANGLES ± 1° L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0		THIRD-ANGLE PROJECTION  THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE N/A	
TITLE SMP Female to RA Mini SMP Female Cable RG405 Type .086 Coax with Heat Shrink in 12 Inch		ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SIZE A CAGE CODE 3FKR5 DRAWN BY BPUCHASKI ITEM NO. FMC00937	
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