

SMP Female Connector Solder Attachment For RG405, RG405 Tinned, .086 SR Cable

SMP female connector with solder/solder attachment for RG405, RG405 Tinned and .086 SR, part number SC5152, from Fairview Microwave is in-stock and ships same day. This SMP female connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.3:1. This blind mate connector is ideal for applications without direct visual or tactile access to the connection point, for example, when two circuit boards need to be mated.

Fairview's SMP female connector SC5152 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.3:1	
Operating Voltage (AC)			335	Vrms

Mechanical Specifications

Size	
Length	0.25 in [6.35 mm]
Width/Dia.	0.131 in [3.33 mm]
Weight	0.0155 lbs [7.03 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 µin minimum
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Gold 3 µin minimum

Environmental Specifications

Temperature	
Operating Range	-65 to +165 deg C

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

Plotted and Other Data

Notes:



Configuration:

- SMP Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- RG405, RG405 Tinned, .086 SR Interface Type
- Solder/Solder Attachment

Features:

- Operating Frequency of 18 GHz Max.
- Good VSWR of 1.3:1
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

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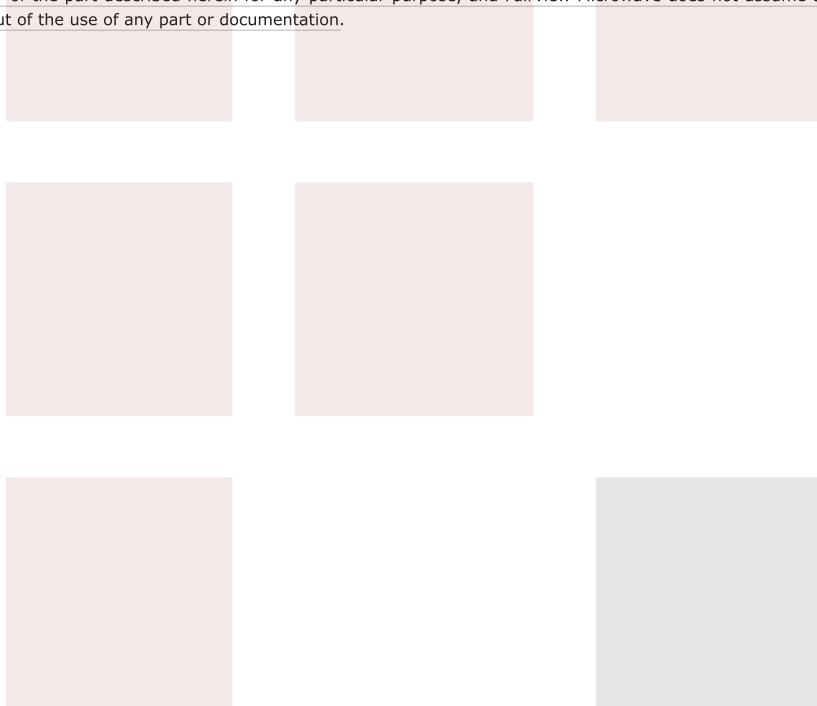
Assembly Instruction

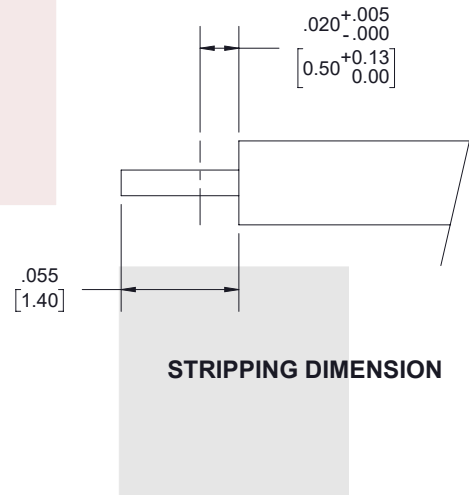
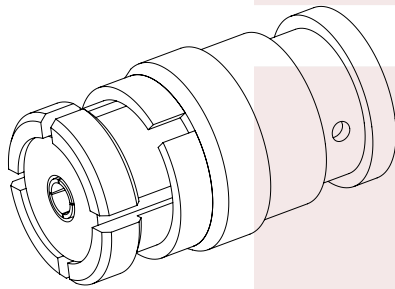
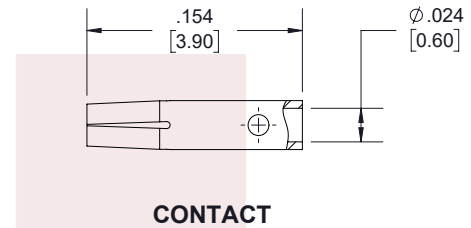
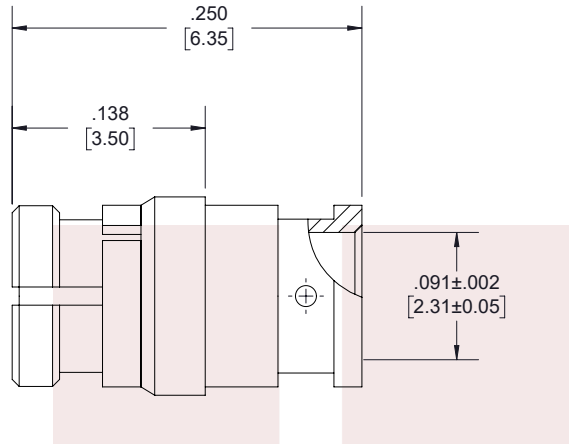
SMP Female Connector Solder Attachment For RG405, RG405 Tinned, .086 SR Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMP Female Connector Solder Attachment For RG405, RG405 Tinned, .086 SR Cable SC5152](#)

URL: <https://www.fairviewmicrowave.com/smp-female-standard-rg405-connector-sc5152-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 ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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 Connector Solder Attachment For RG405,
RG405 Tinned, .086 SR Cable

DWG NO SC5125		CAGE CODE 3FKR5				
CAD FILE	04/11/18	SHEET	1 OF 1	SCALE	N/A	SIZE A 7361

SSMA Female Connector Solder Attachment 4 Hole Flange for FM-SR086ALTN, FM-SR086TB, RG405, .232 inch Hole Spacing

SSMA female 4 hole flange mount connector with solder/solder attachment for FM-SR086ALTN, FM-SR086TB and RG405 (.232 inch hole spacing), part number FMCN1871, from Fairview Microwave is in-stock and ships same day. Fairview's FMCN1871 4 hole flange SSMA connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Fairview's SSMA female 4 hole flange connector FMCN1871 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Mechanical Specifications

Size

Length	0.5 in [12.7 mm]
Width/Dia.	0.38 in [9.65 mm]
Height	0.38 in [9.65 mm]
Weight	0.005 lbs [2.27 g]

Material Specifications

Description	Material	Plating
Contact		Gold MIL-G-45204
Insulation	Teflon	
Body	Stainless Steel	Gold MIL-G-45204

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Configuration:

- SSMA Female Connector
- MIL-C-39012
- 50 Ohms
- Straight Body Geometry
- FM-SR086ALTN, FM-SR086TB, RG405 Interface Type
- Solder/Solder Attachment
- 4 Hole Flange

Features:

- Gold Plated Contact
- Contact plating according to MIL-G-45204

Applications:

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

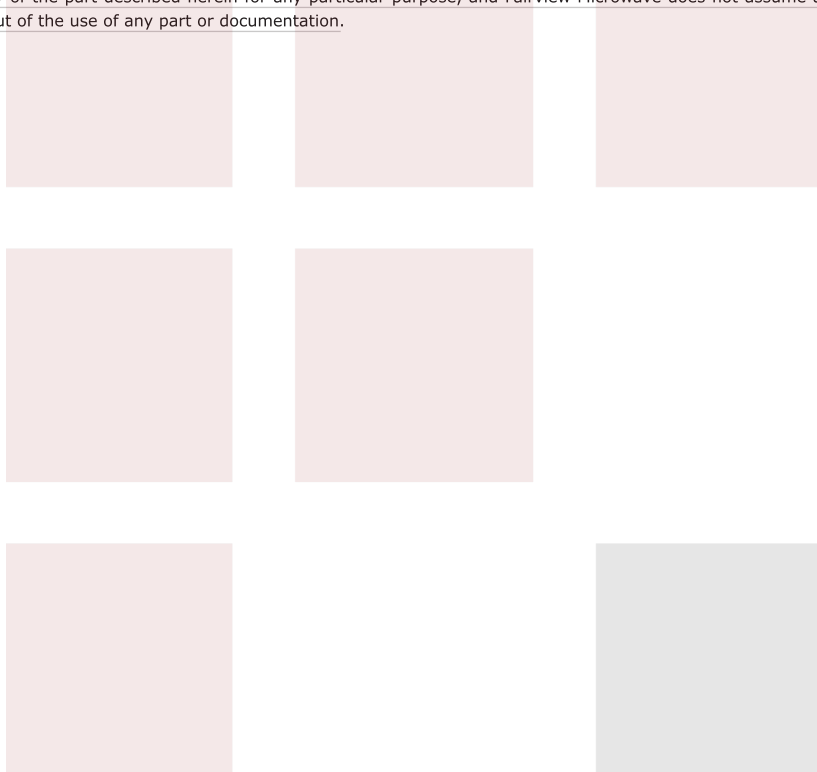
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SSMA Female Connector Solder Attachment 4 Hole Flange for FM-SR086ALTN, FM-SR086TB, RG405, .232 inch Hole Spacing from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SSMA Female Connector Solder Attachment 4 Hole Flange for FM-SR086ALTN, FM-SR086TB, RG405, .232 inch Hole Spacing FMCN1871](https://www.fairviewmicrowave.com/ssma-female-fm-sr086altn-fm-sr086tb-rg405-connector-fmcn1871-p.aspx)

URL: <https://www.fairviewmicrowave.com/ssma-female-fm-sr086altn-fm-sr086tb-rg405-connector-fmcn1871-p.aspx>

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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/21/2022	AGANWANI

STRIPPING DIMENSIONS

ASSEMBLY PROCEDURE

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. PLACE CONTACT OVER CENTER CONDUCTOR. SOLDER CONTACT TO CENTER CONDUCTOR.
3. INSERT CABLE AND CONTACT INTO CONNECTOR BODY UNTIL OUTER CONDUCTOR IS FLUSH WITH SHOULDER IN CONNECTOR BODY. SOLDER OUTER CONDUCTOR TO BODY.

FAIRVIEW MICROWAVE

an INFINITI brand

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SIZE	CAGE CODE	3FKR5	DRAWN BY	ITEM NO.	REV	SCALE
A	3FKR5		A.KRESOWSKI	FMCM1871		N/A

REV 1.0 Page 3 of 3

RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Coiled Sections

.086 diameter semi-rigid coaxial cable is the cable of choice for many RF and Microwave engineers. 0.086 cables sometimes referred to as RG405 based on the mil specification for semi-rigid cable of this diameter has a maximum operating frequency of 40 GHz. This form factor is widely used in the RF industry and many connector series and configurations are available for this cable. Because of the solid copper wall design the cable can be formed using proper tooling with a minimum inside bend radius of .07 inches.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
DWV (AC)			5,000	Vrms

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Typ	23 75.46	81 265.75	131 429.79			dB/100ft dB/100m
Power In (CW), Max	130	35	20			Watts

Mechanical Specifications

Min. Bend Radius (Installation) 0.07 in [1.78 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.066 in [1.68 mm]
Outer Conductor	Aluminum, Tin	0.086 in [2.18 mm]

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

REACH Compliant 12/17/2014

Plotted and Other Data

Notes:

Configuration:

- Semi-Rigid Cable

Features:

- Silver Plated Copper Clad Steel center conductor
- PTFE dielectric material
- Aluminum Tinned Outer Conductor
- Operating to 40 GHz
- Minimum inside bend radius of .07 inches
- ROHS compliant

Applications:

- RF and Microwave Cable Assemblies to 40 GHz
- Preformed cable assemblies to insure fit and layout
- Test Equipment port jumpers

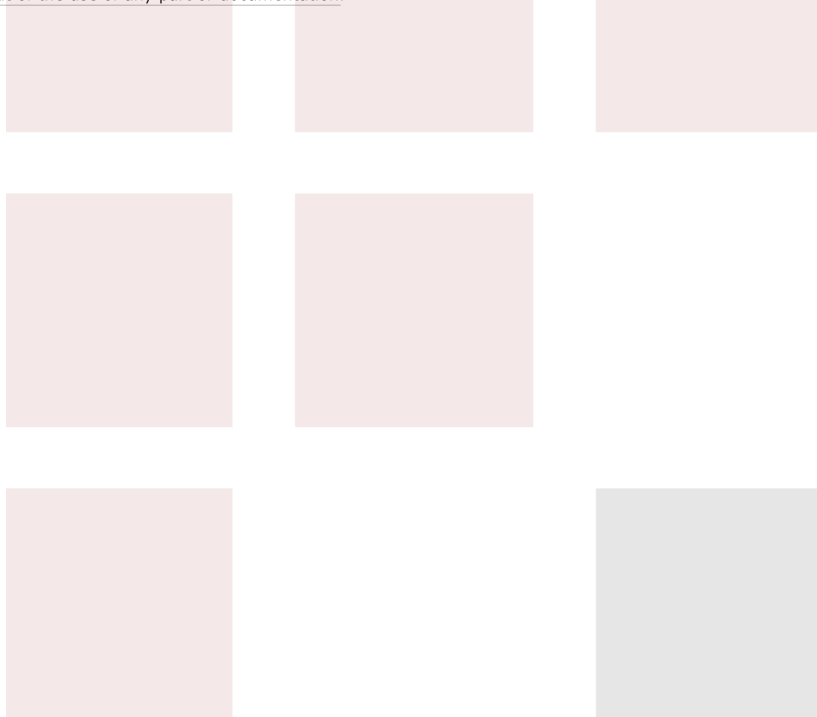
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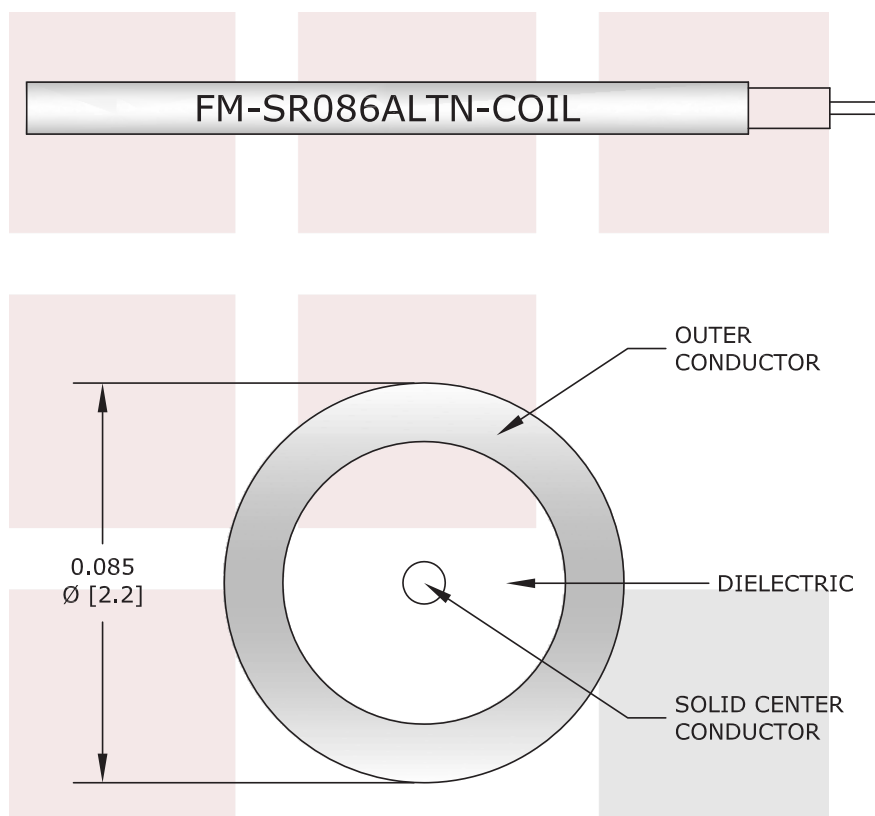
RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Coiled Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Coiled Sections FM-SR086ALTN-COIL](#)

URL: <http://www.fairviewmicrowave.com/rg405-type-.086-semi-rigid-coax-cable-tin-plated-aluminum-fm-sr086altn-coil-p.aspx>

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TITLE RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Coiled Sections		DWG NO FM-SR086ALTN-COIL		CAGE CODE 3FKR5	
CAD FILE	012716	SHEET	SCALE	N/A	SIZE A 2233