



## Mini SMP Female Connector Solder Attachment for RG405, RG405 Tinned, .086 SR Cable

Mini SMP female connector with solder attachment for RG405, RG405 Tinned and .086 SR, part number SC5431, from Fairview Microwave is in-stock and ships same day. This Mini SMP female connector operates up to a maximum frequency of 26.5 GHz and offers excellent VSWR of 1.15:1. 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 Mini SMP female connector SC5431 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	Тур	Max	Units	
Frequency Range	DC		26.5	GHz	
VSWR			1.15:1		

### **Mechanical Specifications**

**Size** Length Width/Dia.

Weight

0.29 in [7.37 mm] 0.125 in [3.18 mm]

0.0007 lbs [0.32 g]

#### **Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Gold 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:



## **Configuration:**

- Mini SMP Female Connector
- 50 Ohms
- Straight Body Geometry
- RG405, RG405 Tinned, .086 SR Interface Type
- Solder Attachment

#### **Features:**

- Operating Frequency of 26.5 GHz Max.
- Excellent VSWR of 1.15:1
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

## **Applications:**

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com

sales@fairviewmicrowave.com





Mini SMP Female Connector Solder Attachment for RG405, RG405 Tinned, .086 SR Cable from Fairview Microwave is instock 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.

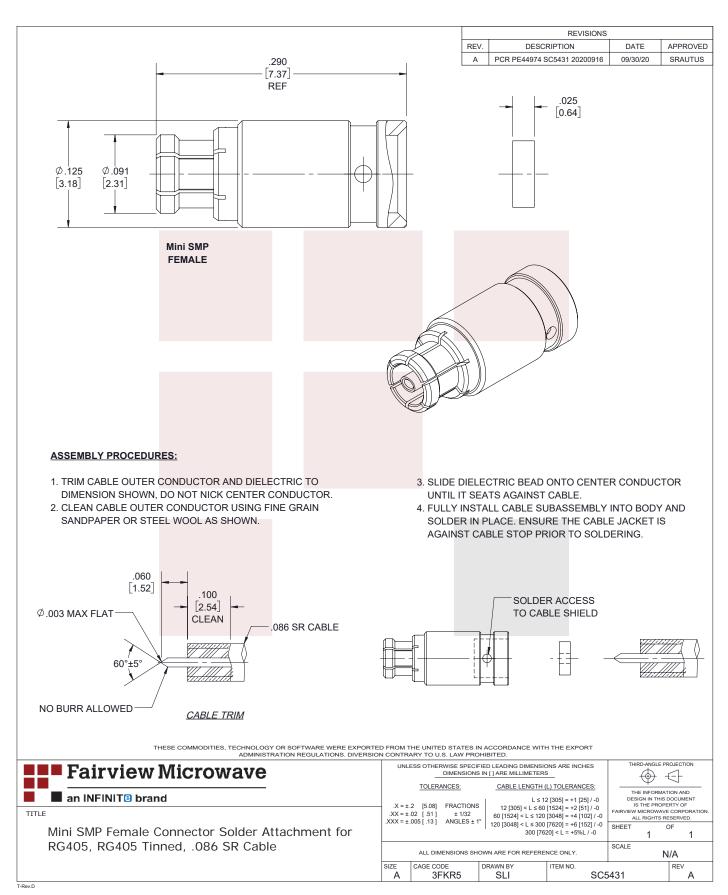
For additional information on this product, please click the following link: Mini SMP Female Connector Solder Attachment for RG405, RG405 Tinned, .086 SR Cable SC5431

URL: https://www.fairviewmicrowave.com/mini-smp-female-rg405-connector-sc5431-p.aspx













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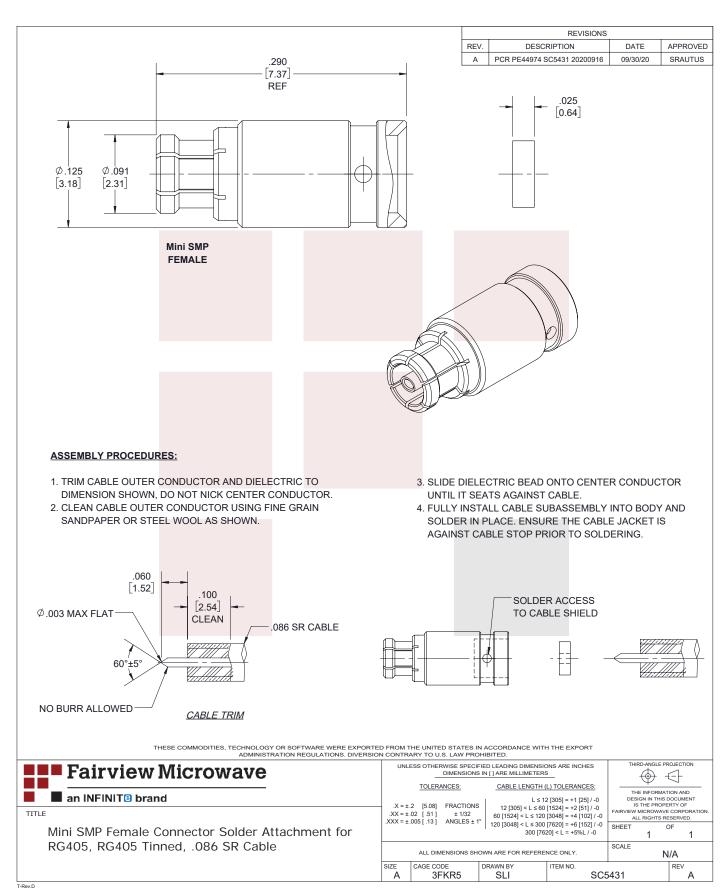
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## FM-SR086CU-COIL DATA SHEET

# RG405 Type .086 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections

.086 diamater 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 .12 inches.

#### **Electrical Specifications**

Description	Min	Т	ур	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	22 72.18	80 262.47	120 393.7			dB/100ft dB/100m
Power In (CW), Max	130	35	20			Watts

#### **Mechanical Specifications**

Min. Bend Radius (Installation)

0.12 in [3.05 mm]

#### **Construction Specifications**

Description	<b>Material and Plating</b>	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	Copper, Bare	0.087 in [2.21 mm]
Jacket	Tan	

#### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C

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

RoHS Compliant Yes

REACH Compliant 12/17/2014

## Fairview Microwave

## **Configuration:**

· Semi-Rigid Cable

#### Features:

- Silver Plated Copper Clad Steel center conductor
- PTFE dielectric material
- Bare Copper Outer Conductor
- Operating to 40 GHz
- Minimum inside bend radius of .12 inches
- ROHS compliant

## **Applications:**

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





#### **Plotted and Other Data**

Notes:

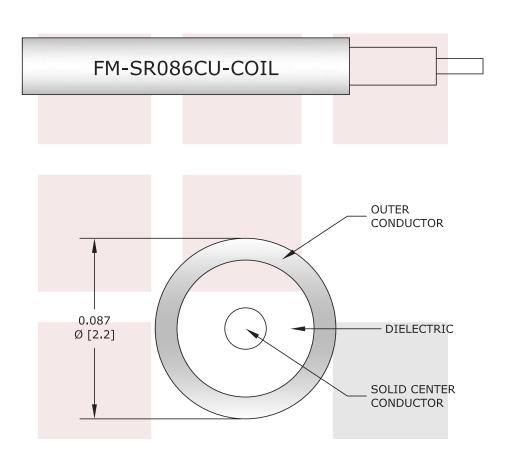
RG405 Type .086 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: RG405 Type .086 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections FM-SR086CU-COIL

URL: http://www.fairviewmicrowave.com/rg405-type-.086-semi-rigid-coax-cable-copper-fm-sr086cu-coil-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.





FAIRVIEW MICROWAVE INC.  ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].					
RG405 Type .086 Semi-Rigid Coax Cable with a Bare	DWG NO FM-SR086CU-COIL			CAGE CODE 3FKR5		
Copper Outer Conductor in Coiled Sections	CAD FILE 012716	SHEET	SCALE N	N/A SIZE A	2233	