

## RA SMA Male Connector Solder Attachment For RG405, RG405 Tinned, .086 SR Cable

RA SMA male connector with solder/solder attachment for RG405, RG405 Tinned and .086 SR, part number SC7027, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 12.4 GHz and offers excellent VSWR of 1.23:1. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA SMA male connector SC7027 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		12.4	GHz
VSWR			1.23:1	
Operating Voltage (AC)			335	Vrms

### Mechanical Specifications

<b>Size</b>	
Length	0.65 in [16.51 mm]
Height	0.441 in [11.2 mm]
Weight	0.015 lbs [6.8 g]

### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 µin minimum
Insulation	PTFE	
Body	Stainless Steel	Gold 3 µin minimum
Coupling Nut	Stainless Steel	Gold 3 µin minimum

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-65 to +165 deg C

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

### Plotted and Other Data

Notes:



### Configuration:

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- RG405, RG405 Tinned, .086 SR Interface Type
- Solder/Solder Attachment
- 5/16 inch Hex

### Features:

- Operating Frequency of 12.4 GHz Max.
- Excellent VSWR of 1.23:1
- Gold Plated Brass Contact
- 50 µin minimum contact plating

### Applications:

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave  
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[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
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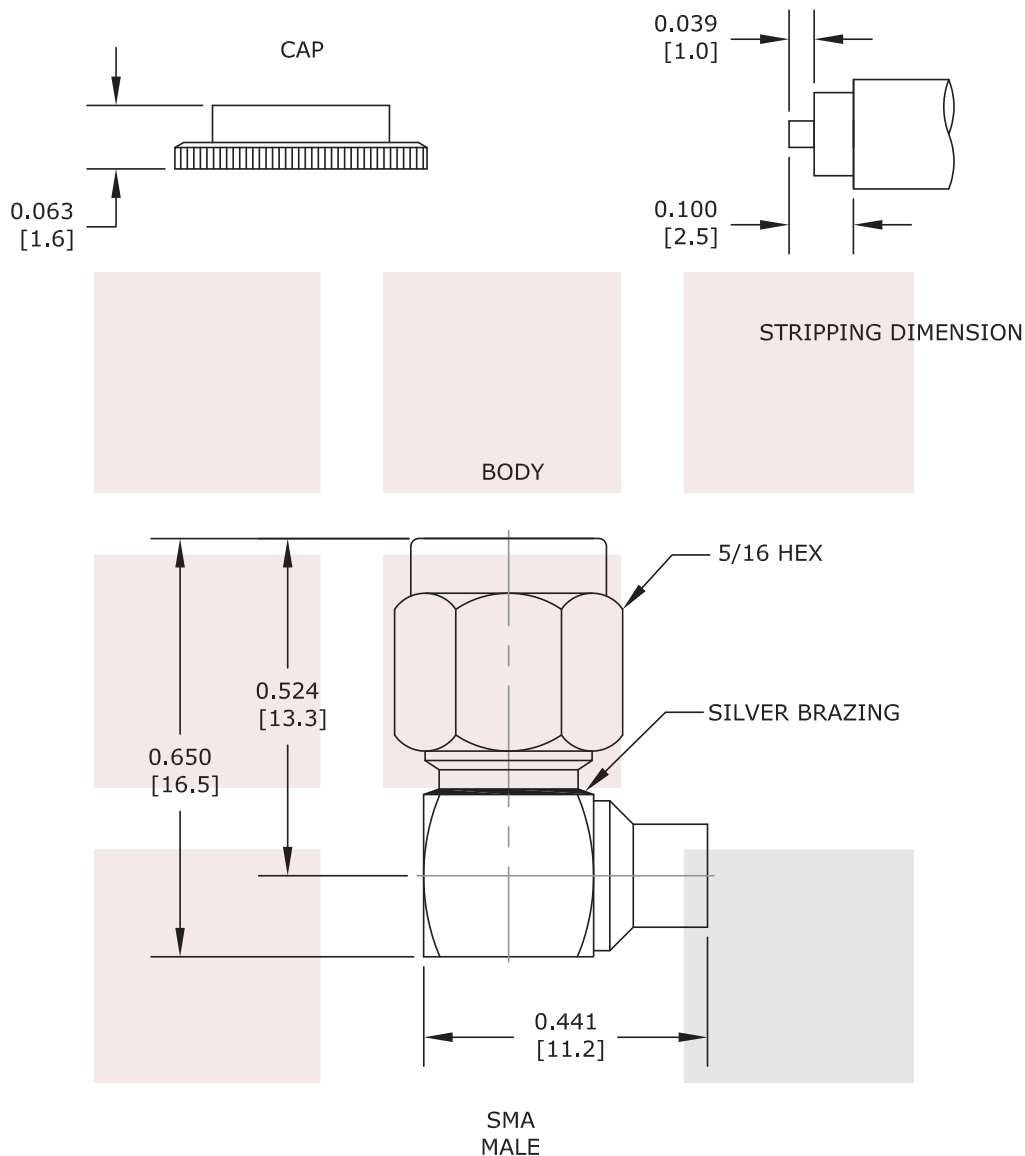
RA SMA Male Connector Solder Attachment For RG405, RG405 Tinned, .086 SR Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RA SMA Male Connector Solder Attachment For RG405, RG405 Tinned, .086 SR Cable SC7027](#)

URL: <https://www.fairviewmicrowave.com/sma-male-rg405-connector-sc7027-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.

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].

### TITLE

RA SMA Male Connector Solder Attachment For  
RG405, RG405 Tinned, .086 SR Cable

### DWG NO

SC7027

### CAGE CODE

3FKR5

### CAD FILE

120516

### SHEET

### SCALE

N/A

### SIZE

A

41742

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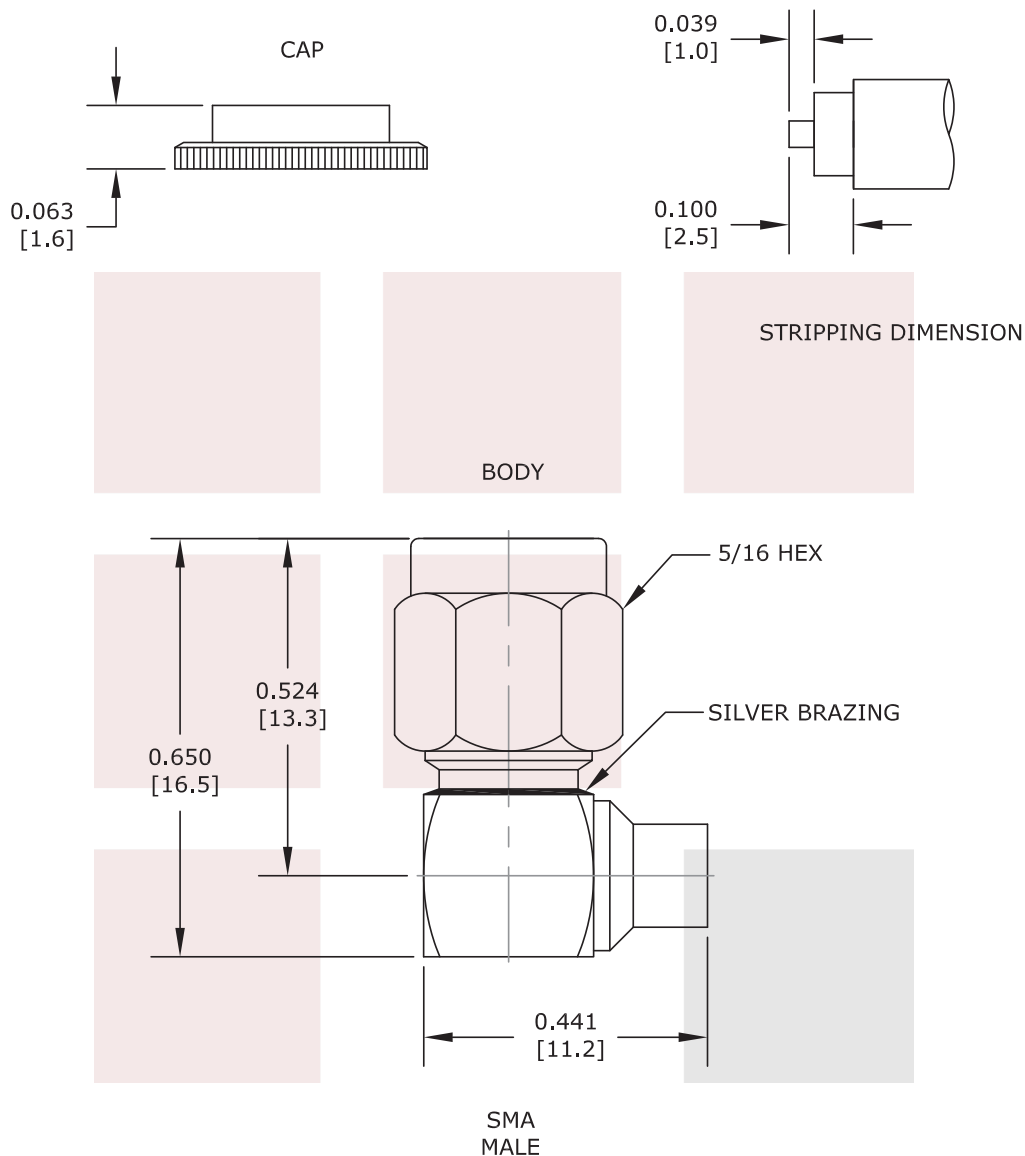
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### DWG NO

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### CAGE CODE

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120516

### SHEET

### SCALE

N/A

### SIZE

A

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## Formable .086 Formable Coax Cable Jacket

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly preformed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		20	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Inner Conductor DC Resist.			65.7	Ohms/1000ft
Outer Conductor DC Resist.			10.2	Ohms/1000ft
Nominal Capacitance		29		pF/ft
		[95.14]		[pF/m]

### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	20	GHz
Attenuation, Typ	15 49.21	22.5 73.82	54.9 180.12	81.2 266.4	120 393.7	dB/100ft dB/100m

### Mechanical Specifications

Min. Bend Radius (Repeated) 0.78 in [19.81 mm]

### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strands	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.062 in [1.57 mm]
Outer Conductor	Copper, Tin	0.085 in [2.16 mm]

### Environmental Specifications

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

### Plotted and Other Data

Notes:



### Configuration:

- Formable Cable
- 1 Shield(s)

### Features:

- Dimensionally the same as standard solid outer conductor semi-rigid coax
- Standard semi-rigid connectors can be used
- Cable is hand formable and does not require special tools to bend
- Connectors are easily soldered to Tin soaked outer conductor
- Cable can be formed more than once without damage to outer conductor
- High RF Shielding > 100 dB

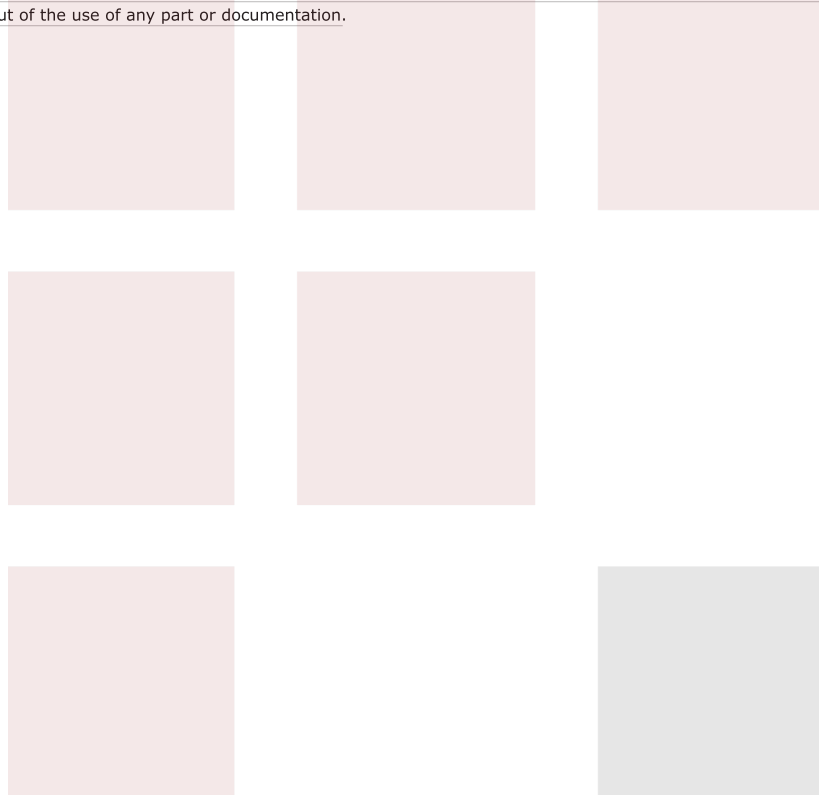
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Formable .086 Formable Coax Cable Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Formable .086 Formable Coax Cable Jacket FM-SR086TB](#)

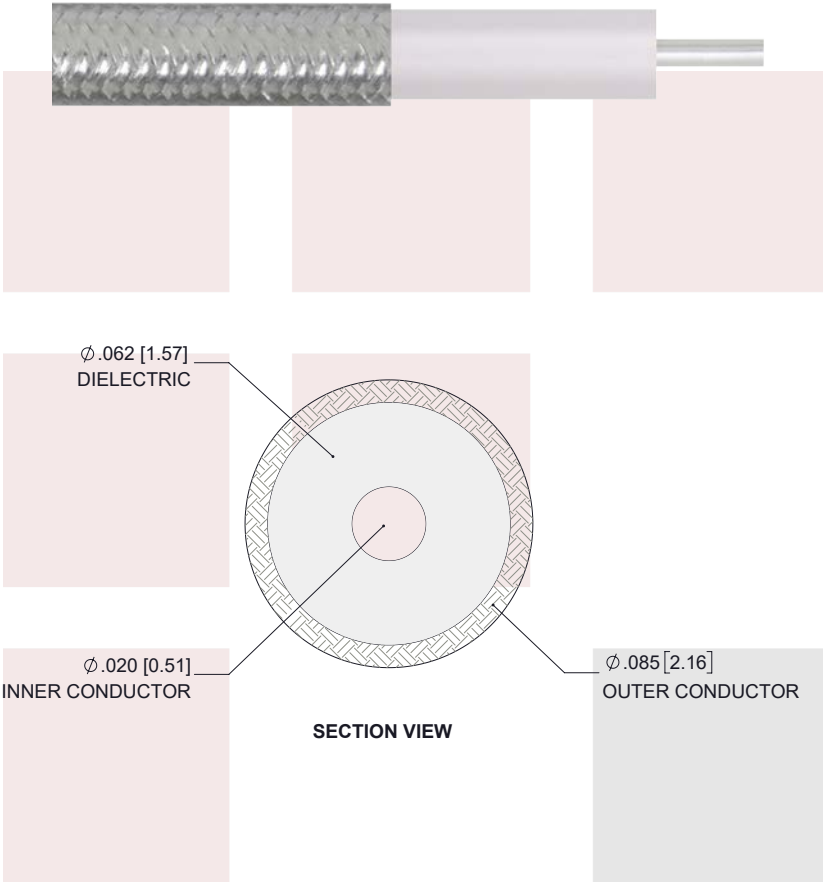
URL: <https://www.fairviewmicrowave.com/invalid-alias-formable-coax-cable-fm-sr086tb-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/22/19	S.ELLIS



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TITLE  Formable .086 Formable Coax Cable Jacket	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:				
	.X = ±.2 [5.08] FRACTIONS ± 1/32		L ≤ 12 [305] = +1 [25] / -0				
	.XX = ±.02 [.51] ± 1/32		12 [305] < L ≤ 60 [1524] = +2 [51] / -0				
	.XXX = ±.005 [.13] ANGLES ± 1°		60 [1524] < L ≤ 120 [3048] = +4 [102] / -0				
			120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0				
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						SHEET 1 OF 1	
						SCALE N/A	
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	PART NUMBER FM-SR086TB			REV A	

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