Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

SC7027
DATA SHEET

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

Size

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

Temperature

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

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sales@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

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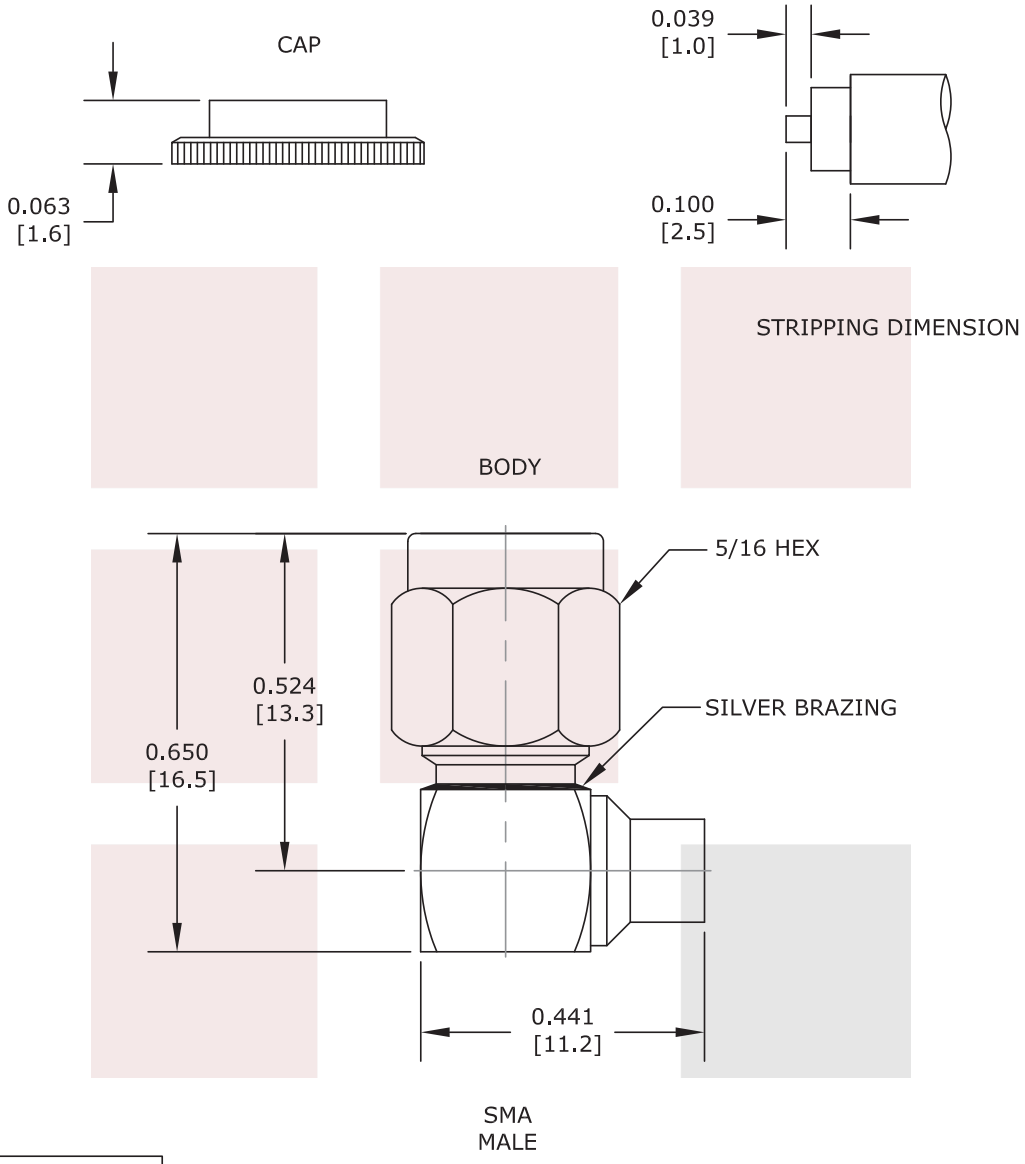

STANDARD TOLERANCES
.X ±0.2
.XX ±0.1
.XXX ±0.05

*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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Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

SC5433
DATA SHEET

RA Mini SMP Female Connector Solder Attachment For RG405 Cable

RA Mini SMP female connector with solder attachment for RG405, part number SC5433, from Fairview Microwave is in-stock and ships same day. This Mini SMP female connector operates up to a maximum frequency of 40 GHz and offers good VSWR of 1.35:1. 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. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA Mini SMP female connector SC5433 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		40	GHz
VSWR			1.35:1	

Mechanical Specifications

Size

Length	0.25 in [6.35 mm]
Width/Dia.	0.156 in [3.96 mm]
Weight	0.0025 lbs [1.13 g]

Material Specifications

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

Configuration:

- Mini SMP Female Connector
- 50 Ohms
- Right Angle Body Geometry
- RG405 Interface Type
- Solder Attachment

Features:

- Operating Frequency of 40 GHz Max.
- Good VSWR of 1.35:1
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

Applications:

- General Purpose Test
- Custom Cable Assemblies

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sales@fairviewmicrowave.com

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Assembly Instruction

RA Mini SMP Female Connector Solder Attachment For RG405 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 Mini SMP Female Connector Solder Attachment For RG405 Cable SC5433

URL: https://www.fairviewmicrowave.com/mini-smp-female-rg405-connector-sc5433-p.aspx

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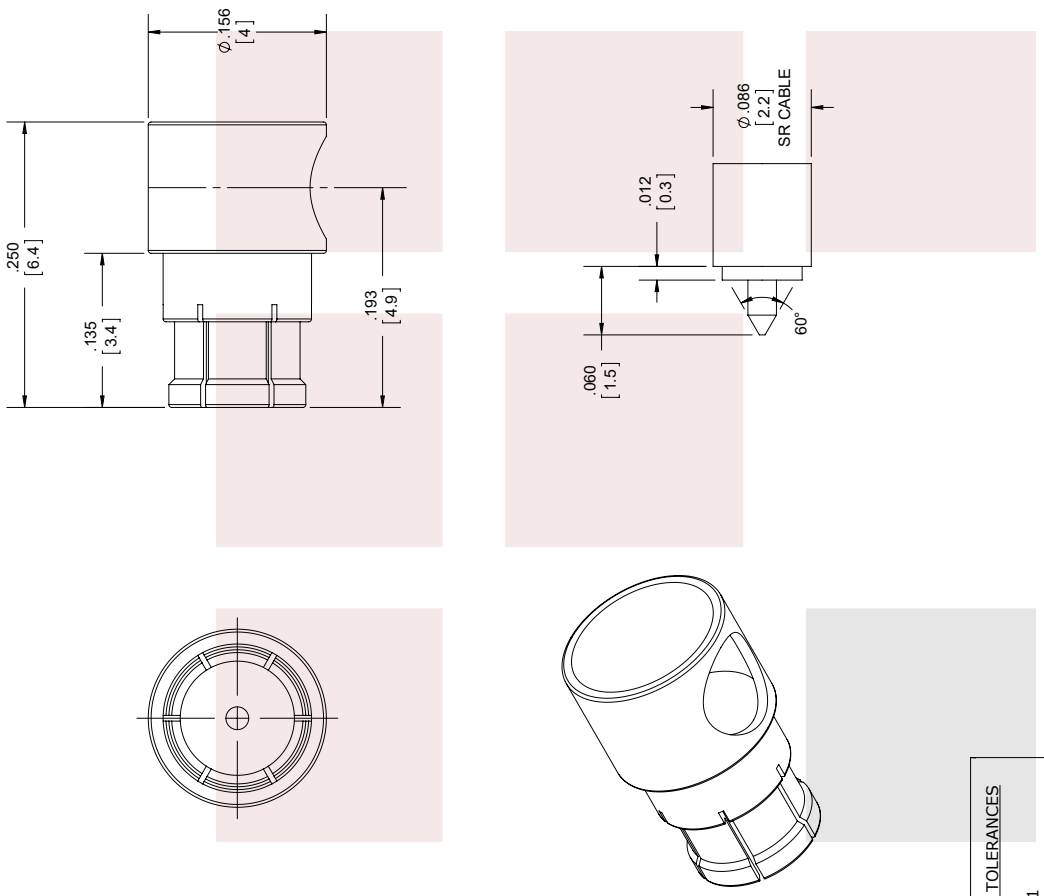

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

TITLE

DWG NO SC5433 | CAGE CODE 3FKR5
CAD FILE 071317 | SHEET 1 OF 1 | SCALE N/A | SIZE A | 2233

RA Mini SMP Female Connector Solder Attachment For RG405 Cable

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FM-SR086TBJ DATA SHEET

Formable .086 Formable Coax Cable Black FEP 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. FEP Jacket reduces the chance of shorting exposed contacts or circuit conductors.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		61	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Time Delay		1.43 [4.69]		ns/ft [ns/m]
Shielding Effectiveness	100			dB
Operating Voltage (AC)			1,500	Vrms
Inner Conductor DC Resist.			65.7	Ohms/1000ft
Outer Conductor DC Resist.			10.2	Ohms/1000ft
Nominal Capacitance		29 [95.14]		pF/ft [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
Power In (CW), Max	173.5	121.5	52.2	35.8	24.3	Watts

Mechanical Specifications

Diameter	0.105 in [2.67 mm]
Weight	0.026 lbs/ft [0.04 Kg/m]
Min. Bend Radius (Installation)	0.5 in [12.7 mm]
Min. Bend Radius (Repeated)	0.787 in [19.99 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	Tinned Copper Composite Braid	0.085 in [2.16 mm]
Jacket	FEP, Black	0.105 in [2.67 mm]

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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Environmental Specifications

Temperature

Operating Range	-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Formable .086 Formable Coax Cable Black FEP 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 Black FEP Jacket FM-SR086TBJ

URL: https://www.fairviewmicrowave.com/invalid-alias-formable-coax-cable-fep-jacket-fm-sr086tbj-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 Black FEP Jacket

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08]
.XX = ±.02 [.51]
.XXX = ±.005 [.13]
FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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

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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	PART NUMBER	REV
A	3FKR5	K.DANG	FM-SR086TBJ	A

T-Rev.D

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