

SMP Male Bulkhead Smooth Bore CM Connector Solder Attachment For RG405, RG405 Tinned, .086 SR Cable

SMP male smooth bore CM bulkhead connector with solder/solder attachment for RG405, RG405 Tinned and .086 SR, part number SC5161, from Fairview Microwave is in-stock and ships same day. This SMP male connector operates up to a maximum frequency of 40 GHz and offers excellent VSWR of 1.25:1. 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 SC5161 bulkhead SMP 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 SMP male bulkhead connector SC5161 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			1.25:1	

Mechanical Specifications

Size	
Length	0.51 in [12.95 mm]
Width/Dia.	0.23 in [5.84 mm]
Weight	0.00088 lbs [0.4 g]

Material Specifications

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

- Smooth Bore CM SMP Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG405, RG405 Tinned, .086 SR Interface Type
- Solder/Solder Attachment
- Bulkhead

Features:

- Operating Frequency of 40 GHz Max.
- Excellent VSWR of 1.25:1
- Blind Mate Connector
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

Applications:

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

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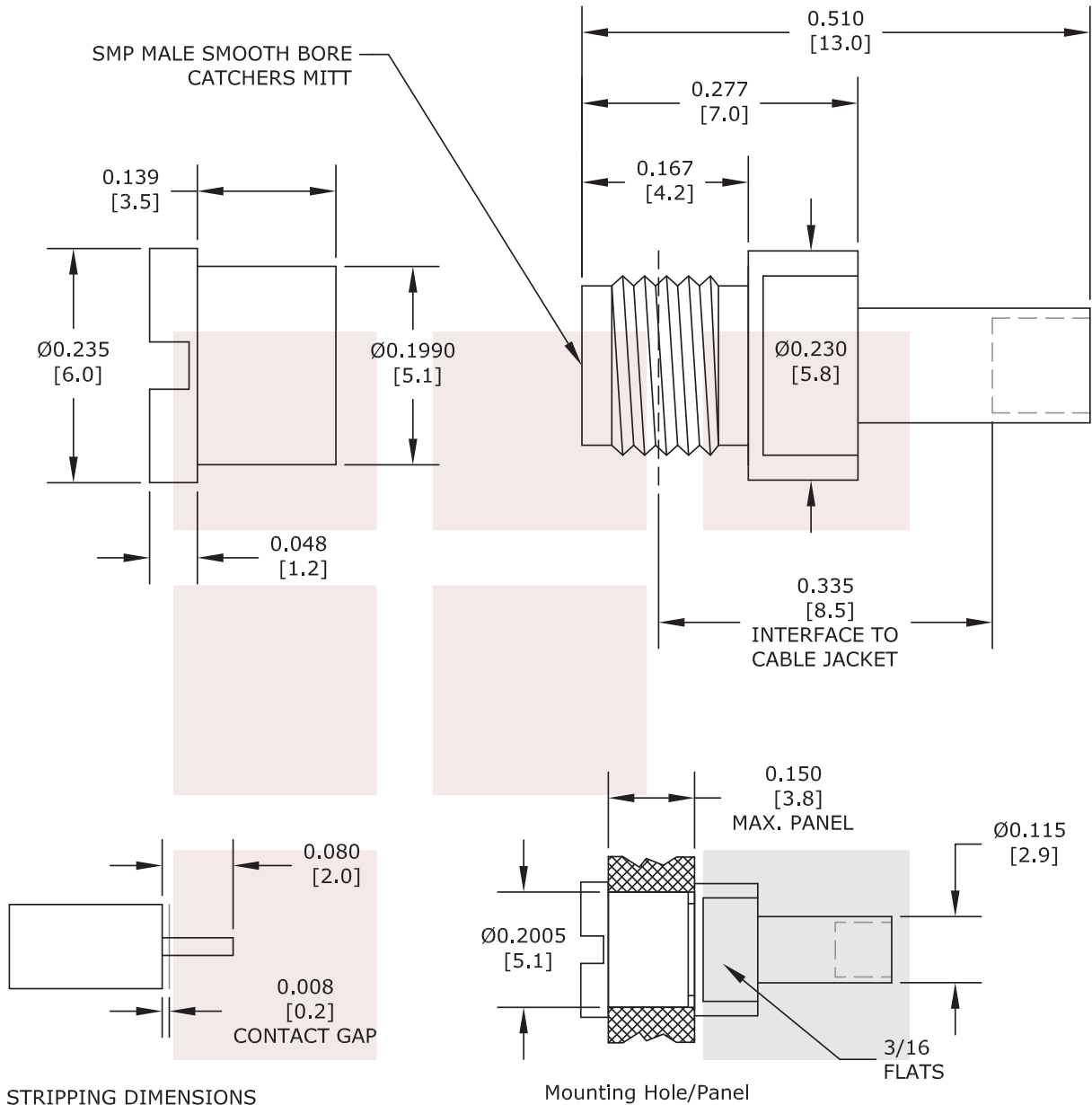
SMP Male Bulkhead Smooth Bore CM Connector Solder Attachment For RG405, RG405 Tinned, .086 SR Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave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

For additional information on this product, please click the following link: [SMP Male Bulkhead Smooth Bore CM Connector Solder Attachment For RG405, RG405 Tinned, .086 SR Cable SC5161](#)

URL: <https://www.fairviewmicrowave.com/smp-male-standard-smooth-bore-rg405-connector-sc5161-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

SMP Male Bulkhead Smooth Bore CM Connector
Solder Attachment For RG405, RG405 Tinned, .086 SR
Cable

DWG NO

SC5161

CAGE CODE

3FKR5

CAD FILE

112916

SHEET

SCALE

N/A

SIZE

A

41742

3.5mm Female (Jack) Bulkhead Connector Clamp/Solder Attachment for FM-SR086ALTN-COIL, FM-SR086CU-COIL, FM-SR086CUTN-COIL, FM-SR086TB Cable



FMCN5330

Configuration

- 3.5mm Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: FM-SR086ALTN-COIL, FM-SR086CU-COIL, FM-SR086CUTN-COIL, FM-SR086TB, FM-SR086TBJ, FM-F086
- Bulkhead

Features

- Operating Frequency of 34.5 GHz Max.
- Excellent VSWR of 1.25:1
- Gold over Nickel over Copper Plated Beryllium Copper Contact

Applications

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

Description

3.5mm Female Bulkhead Mount Connector Clamp/Solder Attachment for FM-SR086ALTN-COIL, FM-SR086CU-COIL, FM-SR086CUTN-COIL, FM-SR086TB, FM-SR086TBJ and FM-F086 Cable, part number FMCN5330, from Fairview Microwave is in-stock and ships same day. This 3.5mm female connector operates up to a maximum frequency of 34.5 GHz and offers excellent VSWR of 1.25:1. Fairview's FMCN5330 bulkhead 3.5mm 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 3.5mm female bulkhead connector FMCN5330 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		34.5	GHz
VSWR			1.25:1	
Insertion Loss			0.176	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	100			dB
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.012 in [25.7 mm]
Width	0.321 in [8.15 mm]

3.5mm Female (Jack) Bulkhead Connector Clamp/Solder Attachment for FM-SR086ALTN-COIL, FM-SR086CU-COIL, FM-SR086CUTN-COIL, FM-SR086TB Cable



FMCN5330

Height	0.321 in [8.15 mm]
Weight	0.02 lbs [9.07 g]
Mating Cycles	500 Cycles
Mating Torque	7.1 to 9.7 in-lbs [[0.80 to 1.10 Nm]]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel over Copper
Insulation	PPO	
Body	Stainless Steel	Passivated
Coupling Nut	Stainless Steel	Passivated
Crimp Sleeve	Brass	Copper-Tin-Zinc Alloy
Solder Sleeve	Brass	
Washer	Stainless Steel	Passivated

Environmental Specifications

Temperature	
Operating Range	-55 to +105 deg C
Humidity	MIL-STD-202, Method 106
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

3.5mm Female (Jack) Bulkhead Connector Clamp/Solder Attachment for FM-SR086ALTN-COIL, FM-SR086CU-COIL, FM-SR086CUTN-COIL, FM-SR086TB 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [3.5mm Female \(Jack\) Bulkhead Connector Clamp/Solder Attachment for FM-SR086ALTN-COIL, FM-SR086CU-COIL, FM-SR086CUTN-COIL, FM-SR086TB Cable FMCN5330](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/3.5mm-female-fm-sr086altn-coil-fm-sr086cu-coil-fm-sr-086cutn-coil-fm-sr086tb-fm-sr086tbj-fm-f086-connector-fmcn5330.html>

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3.5mm Female (Jack) Bulkhead Connector Clamp/Solder Attachment for FM-SR086ALTN-COIL, FM-SR086CU-COIL, FM-SR086CUTN-COIL, FM-SR086TB Cable

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RG405 Type .086 Semi-Rigid Coax Cable with a Bare Copper 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 .12 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	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	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	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

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

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Plotted and Other Data

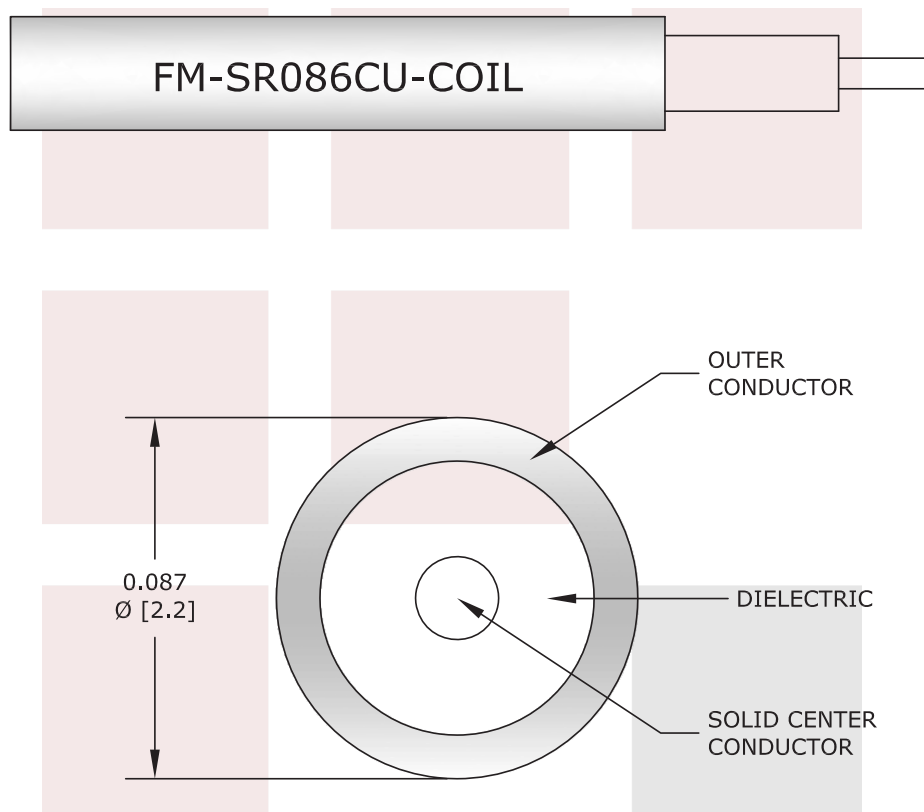
Notes:

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](http://www.fairviewmicrowave.com/rg405-type-.086-semi-rigid-coax-cable-copper-fm-sr086cu-coil-p.aspx)

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

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TITLE RG405 Type .086 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections	DWG NO FM-SR086CU-COIL		CAGE CODE 3FKR5		
	CAD FILE 012716	SHEET	SCALE N/A	SIZE A	2233