

RP SMA Female Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086CUTN, FM-SR086TBJ, RG405

RP SMA female connector with solder/solder attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086CUTN, FM-SR086TBJ and RG405, part number FMCN1908, from Fairview Microwave is in-stock and ships same day. Our reverse polarity female configuration uses a female connector body with a male inner contact pin.

Fairview's RP SMA female connector FMCN1908 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	0.503 in [12.78 mm]
Width/Dia.	0.25 in [6.35 mm]
Height	0.25 in [6.35 mm]
Weight	0.004 lbs [1.81 g]

Material Specifications

Description	Material	Plating
Contact		Gold
Insulation	PTFE	
Body	Stainless Steel	Gold

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

Plotted and Other Data

Notes:



Configuration:

- SMA Female Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR086ALTN, FM-SR086TB, FM-SR086CUTN, FM-SR086TBJ, RG405 Interface Type
- Solder/Solder Attachment

Features:

- Reverse Polarity
- Gold Plated Contact

Applications:

- General Purpose Test
- Custom Cable Assemblies

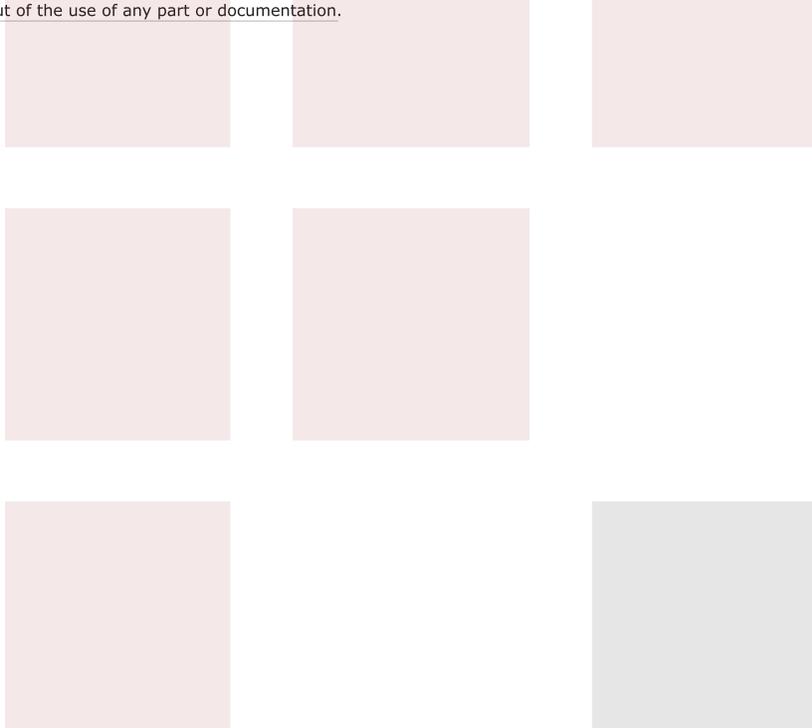
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RP SMA Female Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086CUTN, FM-SR086TBJ, RG405 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

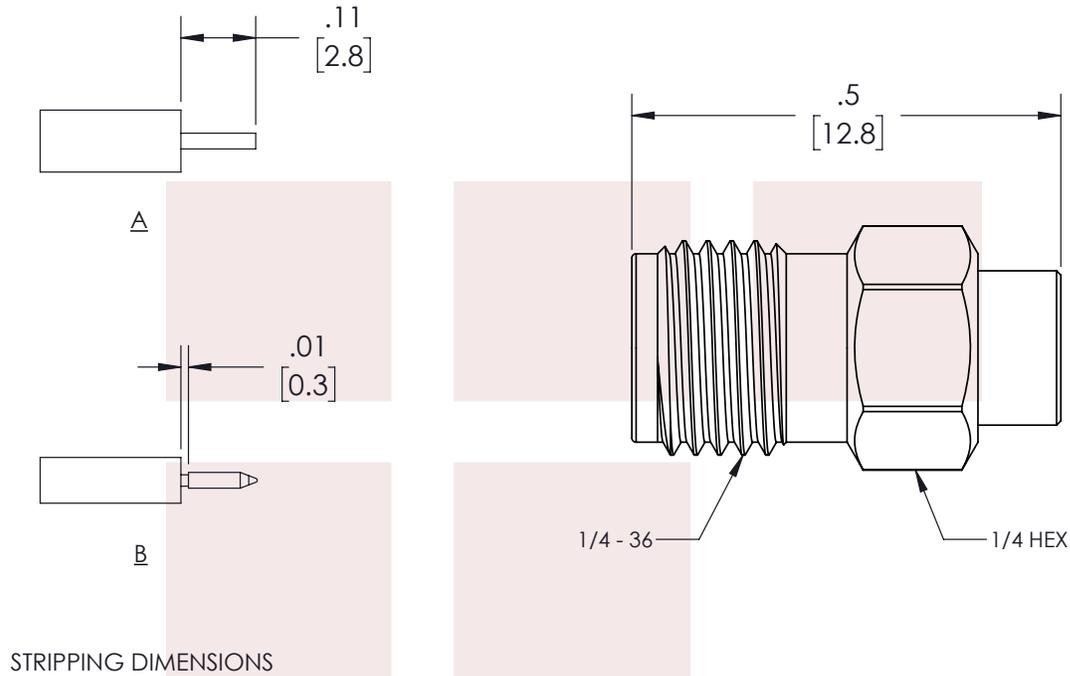
For additional information on this product, please click the following link: [RP SMA Female Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086CUTN, FM-SR086TBJ, RG405 FMCN1908](#)

URL: <https://www.fairviewmicrowave.com/sma-female-reverse-polarity-pe-sr405al-pe-sr405fl-rg405-connector-fmcn1908-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/07/22	AGANWANI



ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A).
DO NOT NICK CENTER CONDUCTOR.
2. SHIM CONTACT AS SHOWN IN (B).
SOLDER CONTACT TO CENTER CONDUCTOR.
3. INSERT CABLE INTO BODY UNTIL OUTER
CONDUCTOR IS FLUSH WITH BODY SHOULDER.
SOLDER OUTER CONDUCTOR TO BODY.

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<p>Fairview Microwave an INFINIT[®] brand</p>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		THIRD-ANGLE PROJECTION 	
	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE RP SMA Female Connector Solder Attachment for FM-SR086ALTN, FM-SR086TB, FM-SR086CUTN, FM- SR086TBJ, RG405	.X = ±.2 [.51]	FRACTIONS ± 1/32	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	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.
	.XX = ±.02 [.51]	ANGLES ± 1°	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	SHEET 1 OF 1 SCALE N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY VTHANGARAJ	ITEM NO. FMCN1908	REV A

T-Rev.D

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	Typ	Max	Units
Frequency Range	DC		26.5	GHz
VSWR			1.15:1	

Mechanical Specifications

Size	
Length	0.29 in [7.37 mm]
Width/Dia.	0.125 in [3.18 mm]
Weight	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

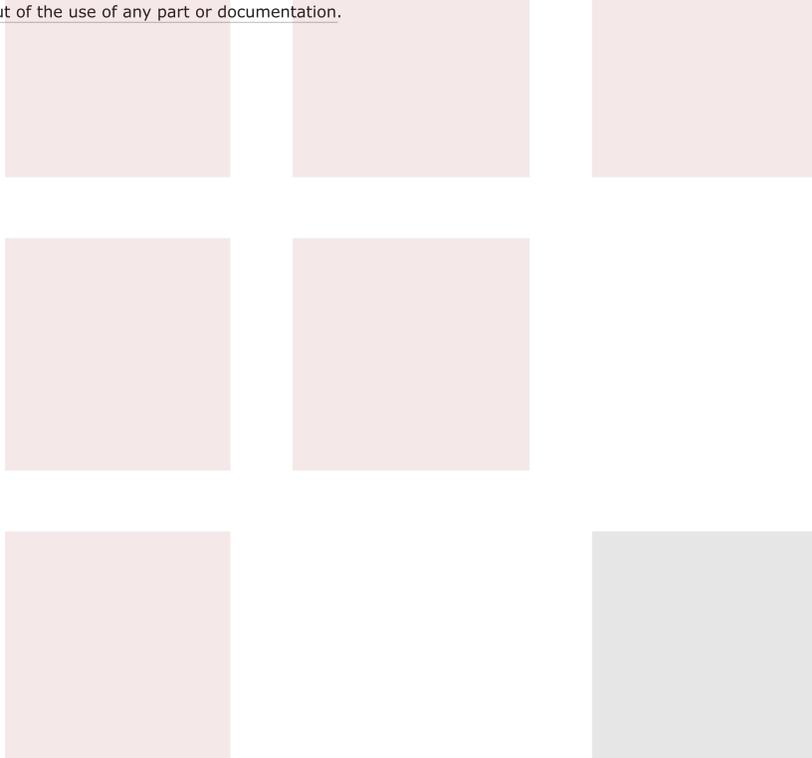
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Mini SMP Female Connector Solder Attachment for RG405, RG405 Tinned, .086 SR Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities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

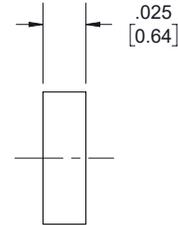
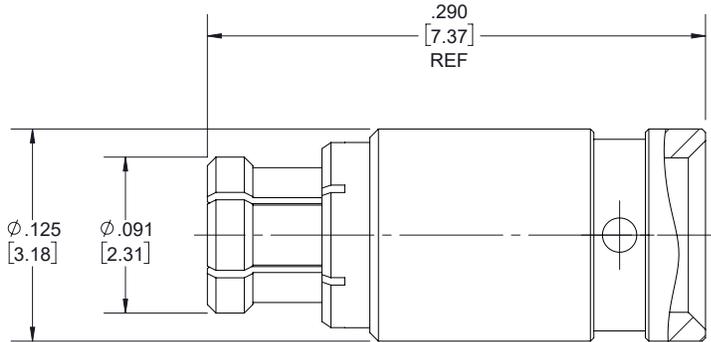
For additional information on this product, please click the following link: [Mini SMP Female Connector Solder Attachment for RG405, RG405 Tinned, .086 SR Cable SC5431](#)

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

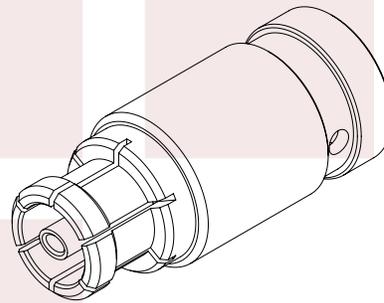
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE44974 SC5431 20200916	09/30/20	SRAUTUS

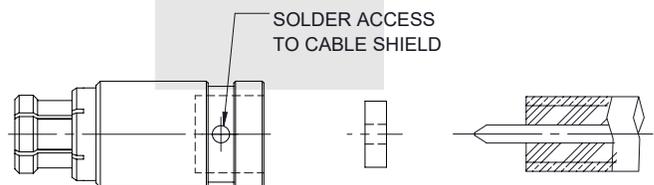
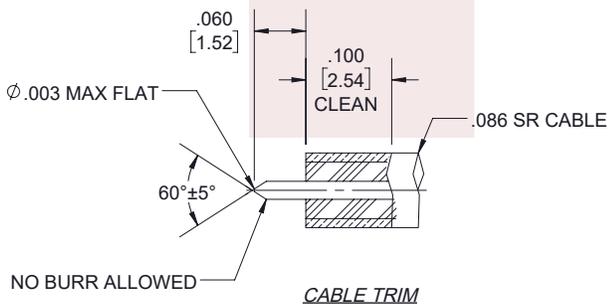


Mini SMP
FEMALE



ASSEMBLY PROCEDURES:

1. TRIM CABLE OUTER CONDUCTOR AND DIELECTRIC TO DIMENSION SHOWN, DO NOT NICK CENTER CONDUCTOR.
2. CLEAN CABLE OUTER CONDUCTOR USING FINE GRAIN SANDPAPER OR STEEL WOOL AS SHOWN.
3. SLIDE DIELECTRIC BEAD ONTO CENTER CONDUCTOR UNTIL IT SEATS AGAINST CABLE.
4. FULLY INSTALL CABLE SUBASSEMBLY INTO BODY AND SOLDER IN PLACE. ENSURE THE CABLE JACKET IS AGAINST CABLE STOP PRIOR TO SOLDERING.



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TITLE

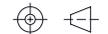
Mini SMP Female Connector Solder Attachment for
RG405, RG405 Tinned, .086 SR Cable

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

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A	CAGE CODE 3FKR5	DRAWN BY SLI	ITEM NO. SC5431	REV A
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T-Rev.D

RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated 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 .05 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) 0.05 in [1.27 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver	0.2 in [5.08 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.066 in [1.68 mm]
Outer Conductor	Copper, 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)

RoHS Compliant Yes
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
- Copper Tinned Outer Conductor
- Operating to 40 GHz
- Minimum inside bend radius of .05 inches
- ROHS compliant

Applications:

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

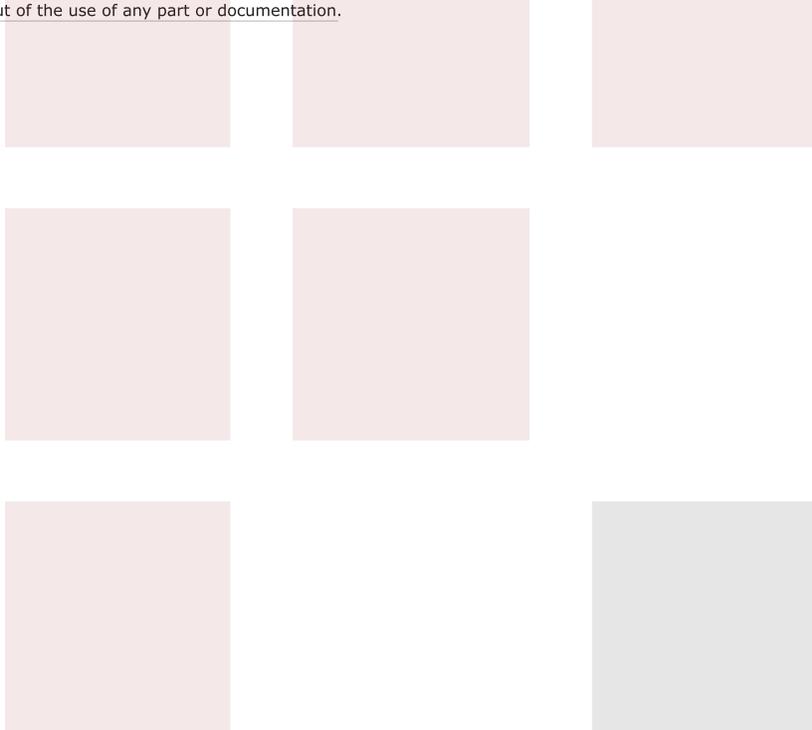
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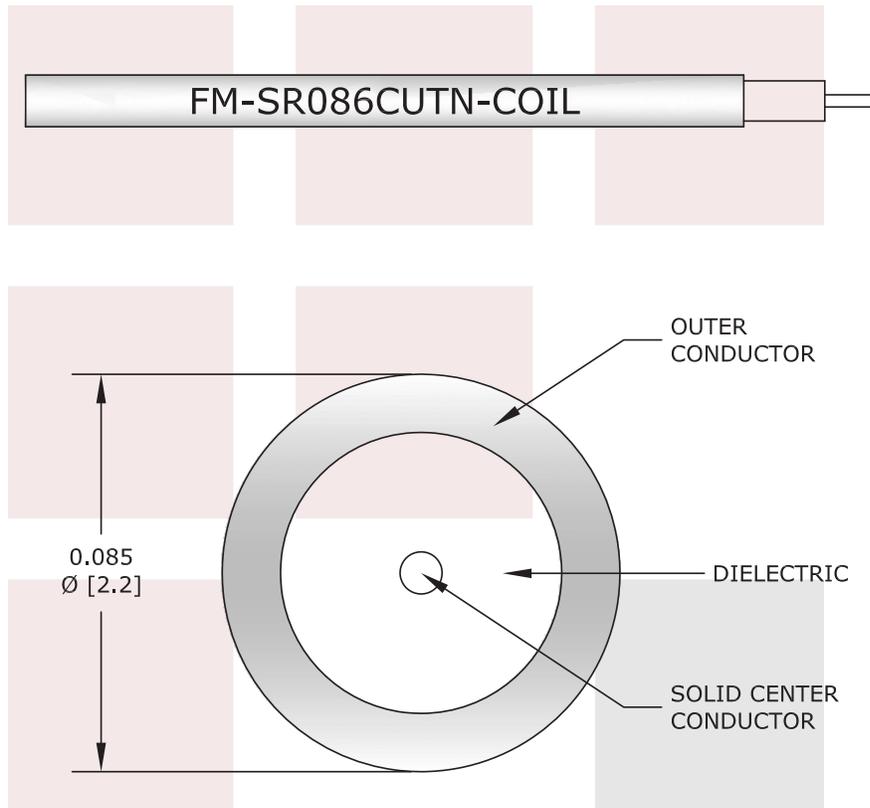
RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Copper Outer Conductor in Coiled Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Copper Outer Conductor in Coiled Sections FM-SR086CUTN-COIL](#)

URL: <http://www.fairviewmicrowave.com/rg405-type-.086-semi-rigid-coax-cable-tin-plated-copper-fm-sr086cutn-coil-p.aspx>

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TITLE RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Copper Outer Conductor in Coiled Sections		DWG NO FM-SR086CUTN-COIL		CAGE CODE 3FKR5	
		CAD FILE 012716	SHEET	SCALE N/A	SIZE A