

## RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight 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 .070 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	23 75.46	81 265.75	131 429.79			dB/100ft dB/100m
Power In (CW), Max	130	35	20			Watts

### Mechanical Specifications

Min. Bend Radius (Installation) 0.07 in [1.78 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	Aluminum, Tin	0.086 in [2.18 mm]

### Environmental Specifications

#### Temperature

Operating Range -55 to +125 deg C

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

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
- Aluminum Tinned Outer Conductor
- Operating to 40 GHz
- Minimum inside bend radius of .070 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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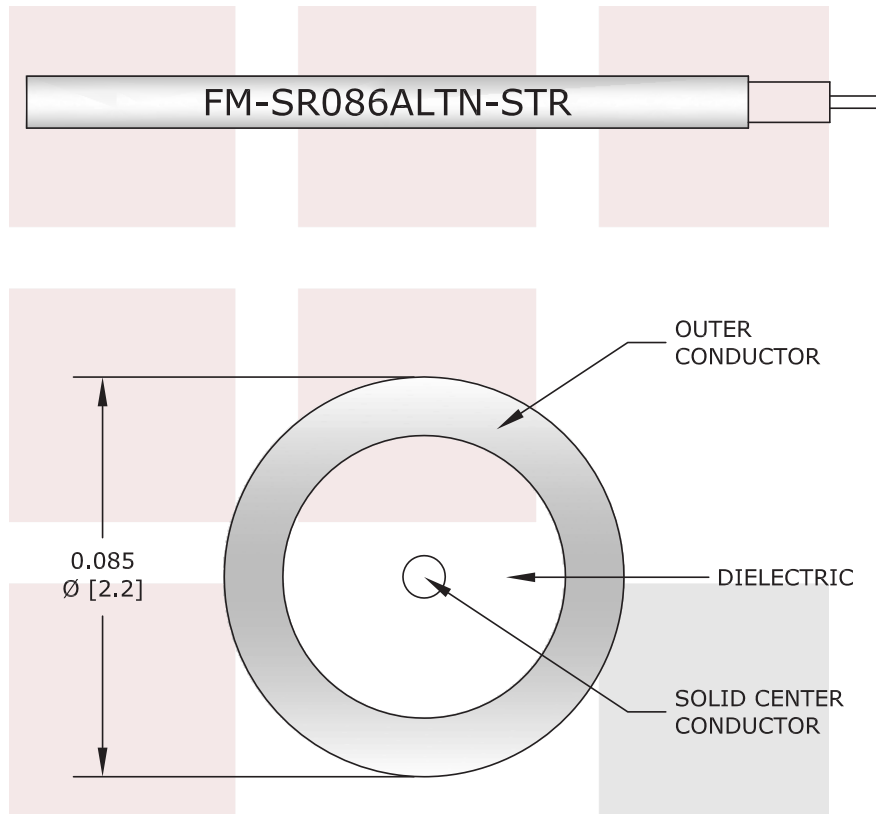
RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections FM-SR086ALTN-STR](#)

URL: <http://www.fairviewmicrowave.com/rg405-type-.086-semi-rigid-coax-cable-tin-plated-aluminum-fm-sr086altn-str-p.aspx>

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TITLE RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections		DWG NO FM-SR086ALTN-STR		CAGE CODE 3FKR5	
CAD FILE	012716	SHEET	SCALE	N/A	SIZE A 2233