

RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Copper Outer Conductor in Coiled Sections



FM-SR086CUTN-COIL

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

Description

.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	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			5,000	Vrms

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Typ	22	80	120			dB/100ft
	72.18	262.47	393.7			dB/100m
Input Power (CW), Max	130	35	20			Watts

Mechanical Specifications

Weight	0.014 lbs/ft [0.02 kg/m]
Min. Bend Radius (Installation)	0.05 in [1.27 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, Strand	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.066 in [1.68 mm]

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Construction Specifications

Description	Material and Plating	Diameter
Outer Conductor	Copper, Tin	0.086 in [2.18 mm]
Jacket	White	

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Copper Outer Conductor in Coiled Sections 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: [RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Copper Outer Conductor in Coiled Sections FM-SR086CUTN-COIL](#)

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

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FM-SR086CUTN-COIL CAD Drawing

RG405 Type .086 Semi-Rigid Coax Cable with a Tin Plated Copper Outer Conductor in Coiled Sections

