

## 086 Semi-rigid Coax Cable with Copper Outer Conductor



### RG405/U-BULK

#### Configuration

- Semi-Rigid Cable
- 1 Shield(s)

#### Features

- Copper Outer Conductor
- Max Frequency 40 GHz

#### Applications

- Test and Measurement
- Communication Systems
- Wireless Systems
- Medical Equipment
- RADAR
- Low Loss Applications

#### Description

Semi-rigid RG405/U coaxial cable provides the highest electrical performance including low loss and high RF shielding effectiveness, which is why it is the cable type of choice for many RF and microwave engineers. Pasternack's RG405 is a .086 semi-rigid cable constructed with silver plated copper clad steel inner conductor, solid PTFE dielectric and copper outer conductor. This .086 semi-rigid RG405 coaxial cable has a maximum operating frequency of 40 GHz. Semi-rigid cable is used in a wide variety of applications including when higher operating frequency or precision performance is required. The Pasternack RG405/U datasheet specifications and outline drawing for this semi-rigid coaxial cable are shown in the PDF below.

Pasternack carries a wide range of cables ready to ship same day to fit your needs. They are available in corrugated, flexible, formable or semi-rigid versions with different constructions of conductor materials, dielectric materials, shielding configurations and jacket materials. Our cables are designed to fit a wide range of performance criteria including attenuation, operating temperature, environmental factor, and power capability.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Shielding Effectiveness	-110			dB
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]
Power@ 1GHz			130	Watts

#### Performance by Frequency Band

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

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### RG405/U-BULK

Description	F6	F7	F8	F9	F10	Units
Frequency						GHz

#### Mechanical Specifications

Weight	0.013 lbs/ft [0.02 kg/m]
Min. Bend Radius (Repeated)	0.05 in [1.27 mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.02 in [0.51 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.066 in [1.68 mm]
Outer Conductor	Copper	0.087 in [2.21 mm]

#### Environmental Specifications

Temperature	
Operating Range	-55 to +125 deg C

#### Compliance Certifications

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

#### Plotted and Other Data

Notes:

086 Semi-rigid Coax Cable with Copper Outer Conductor from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Copper Outer Conductor RG405/U-BULK](#)

URL: <https://www.pasternack.com/semirigid-0.085-rg405-50-ohm-coax-cable-copper-rg405-u-bulk-p.aspx>

The information contained within 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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# RG405/U-BULK CAD Drawing

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