PASTERNACK
an INFINITE brand

086 Semi-rigid Coax Cable with Copper Outer Conductor

RF Cables
Technical Data Sheet

RG405/U-FT

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]

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-FT

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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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

Mechanical Specifications

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 in [0 mm]
Jacket	Tan	[ ]

Environmental Specifications

Temperature

Operating Range -55 to 125 deg C

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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.

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

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