



RG401 Coax Cable with Copper

TECHNICAL DATA SHEET

RG401/U

RG401 Coax Cable with Copper

Configuration

Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Shield Materials	Copper
Jacket Material and Color	Tan

Electrical Specifications

Impedance, Ohms	50
Velocity of Propagation, %	69.5
Maximum Operating Frequency, GHz	20
Capacitance, pF/ft [pF/m]	29.6 [97.11]
Maximum Operating Voltage, Volts	3,000
Dielectric Withstanding Voltage, Vrms	7,500

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	7.5 [24.61]
Power Handling, KWatts	1,400

Frequency 2

Frequency, GHz	10
Attenuation, dB/100ft [dB/100m]	33 [108.27]
Power Handling, Watts	350

Frequency 3

Frequency, GHz	20
Attenuation, dB/100ft [dB/100m]	48 [157.48]
Power Handling, Watts	200

Mechanical Specifications

Temperature

Operating Range, deg C	-55 to +125
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Inner Conductor

Number of Strands	1
Material	Copper
Plating	Silver
Diameter, in [mm]	0.064 [1.63]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG401 Coax Cable with Copper RG401/U](#)

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal.



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Dielectric:

Type PTFE
Diameter, in [mm] 0.209 [5.31]

Shield:

Number of 1
Material 1 Copper
Diameter, in [mm] 0.25 [6.35]

Jacket:

Color Tan
One Time Minimum Bend Radius, in [mm] 0.25 [6.35]
Weight, lbs/ft [Kg/m] 0.105 [0.16]

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes

Plotted and Other Data

Notes: Values at 25 °C, sea level

RG401 Coax Cable with Copper from Pasternack Enterprises 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 (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG401 Coax Cable with Copper RG401/U](#)

URL: <http://www.pasternack.com/semirigid-0.250-rg401-50-ohm-coax-cable-copper-rg401-u-p.aspx>

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PASTERNAK ENTERPRISES RG401/U

IMPEDANCE: 50 OHMS
 INNER CONDUCTOR DIAMETER: .0641"
 INNER CONDUCTOR MATERIAL: SILVER COVERED COPPER
 DIELECTRIC DIAMETER: .209"
 DIELECTRIC MATERIAL: SOLID POLYTETRAFLUOROETHYLENE
 OUTER DIAMETER: .250"
 OUTER SHIELD: BARE COPPER TUBE
 OPERATING TEMPERATURE: - 55° TO + 150° C
 MAX OPERATING VOLTAGE (VOLTS RMS): 3,000

NOMINAL ATTENUATION (PER 100 FEET)

1 GHz	7.5 dB
10 GHz	33.0 dB
20 GHz	48.00 dB

MAXIMUM POWER HANDLING (AVERAGE POWER IN WATTS)

1 GHz	1,400
10 GHz	350
20 GHz	200



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DWG TITLE

RG401/U

NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

REV. B

FSCM NO. 53919

CAD FILE 070512

SCALE N/A

SIZE A

2233