RG401 Coax Cable with Copper

**TECHNICAL DATA SHEET**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Inner Conductor Material and Plating</th>
<th>Copper, Silver</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dielectric Type</td>
<td>PTFE</td>
</tr>
<tr>
<td></td>
<td>Shield Materials</td>
<td>Copper</td>
</tr>
<tr>
<td></td>
<td>Jacket Material and Color</td>
<td>Tan</td>
</tr>
</tbody>
</table>

**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
- **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](#)
# TECHNICAL DATA SHEET

## RG401 Coax Cable with Copper

### 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**

PASTERNACK 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 )

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Attenuation (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 GHz</td>
<td>7.5</td>
</tr>
<tr>
<td>10 GHz</td>
<td>33.0</td>
</tr>
<tr>
<td>20 GHz</td>
<td>48.00</td>
</tr>
</tbody>
</table>

MAXIMUM POWER HANDLING ( AVERAGE POWER IN WATTS )

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Power Handling (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 GHz</td>
<td>1,400</td>
</tr>
<tr>
<td>10 GHz</td>
<td>350</td>
</tr>
<tr>
<td>20 GHz</td>
<td>200</td>
</tr>
</tbody>
</table>

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).