



## N Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG401

# RF Connectors Technical Data Sheet

**PE1952**

## Configuration

- N Female Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: RG401
- Bulkhead

## Features

- Max. Operating Frequency 10 GHz
- Excellent VSWR of 1.25:1

- Gold Plated Beryllium Copper Contact
- Hermetically Sealed

## Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

## Description

Pasternack's PE1952 type N, N, Standard, Connector is part of our full line of RF components available for same-day shipping. Our type N female connector operates up to a maximum frequency of 10 GHz and offers excellent VSWR of 1.25:1. This type N bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our type N female bulkhead connector PE1952 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

## Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.25:1	
Insertion Loss			0.158	dB
Operating Voltage (AC)			1,000	Vrms
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			2,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms

## Mechanical Specifications

## Size

Length	1.21 in [30.73 mm]
Width	0.75 in [19.05 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG401 PE1952](#)



## N Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG401

### RF Connectors Technical Data Sheet

**PE1952**

Height	0.75 in [19.05 mm]
Weight	0.09 lbs [40.82 g]
Mating Cycles	500 Cycles
Mating Torque	6 to 10 in-lbs [0.68 to 1.13 Nm]
Cable Retention Force	6.3 lbs 2.86 kg

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Brass	Tri-Metal
Gasket	Silicone	

#### Environmental Specifications

Temperature	-65 to +165 deg C
Operating Range	MIL-STD-202, Method 106
Humidity	MIL-STD-202, Method 107, Condition B
Thermal Shock	MIL-STD-202, Method 101, Condition B
Salt Spray	1*10-6cc/sec helium at 1atm
Hermetic Seal	

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG401 PE1952](#)



## N Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG401

### RF Connectors Technical Data Sheet

**PE1952**

N Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG401 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.

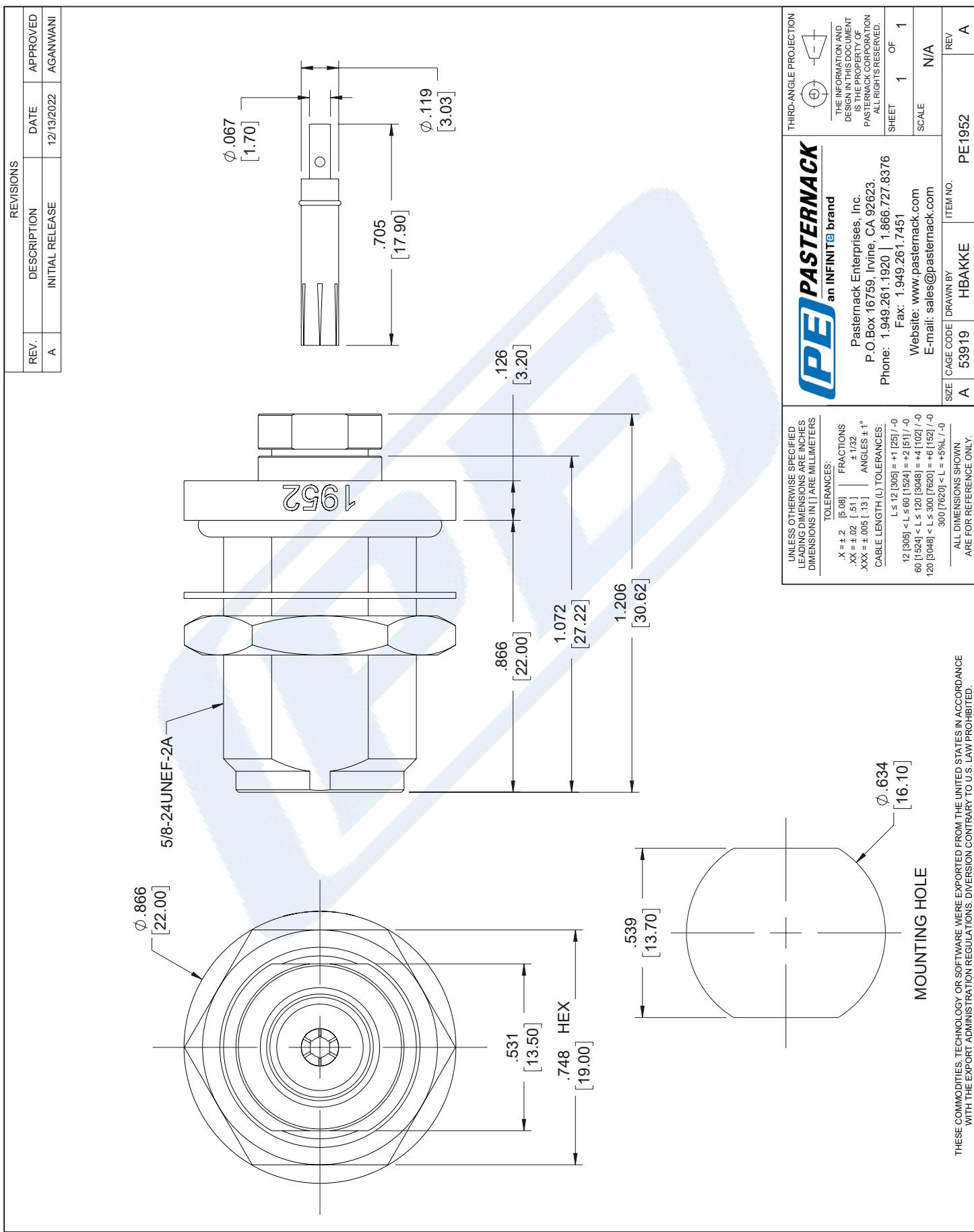
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG401 PE1952](#)

URL: <https://www.pasternack.com/n-female-rg401-connector-pe1952-p.aspx>

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. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE1952 CAD Drawing

N Female Bulkhead Mount Hermetically Sealed Connector  
Clamp/Solder Attachment for RG401





**N Male Right Angle Connector Clamp/Solder Attachment  
for PE-SR401AL, PE-SR401FL, RG401**

**TECHNICAL DATA SHEET**

**PE4935**

**Configuration**

Connector	N Male
Connector Specification	MIL-STD-348A
Connector Interface Type	PE-SR401AL, PE-SR401FL, RG401
Attachment Method (Shield/Contact)	Clamp/Solder
Body Style	Right Angle

**Electrical Specifications**

Impedance	50 Ohms
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**Mechanical Specifications**

**Size**

Length	1.96 in [49.78 mm]
Width/Dia.	0.75 in [19.05 mm]
Height	1.29 in [32.77 mm]
Weight	0.22 lbs [99.79 g]

**Connector**

Type	N Male
Contact Material and Plating	Brass, Gold
Contact Plating Specification	30 $\mu$ in. minimum
Coupling Nut Material and Plating	Brass, Nickel
Coupling Nut Plating Specification	100 $\mu$ in. minimum
Body Material and Plating	Brass, Nickel
Body Plating Specification	100 $\mu$ in. minimum
Dielectric Type	Teflon

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle Connector Clamp/Solder Attachment for PE-SR401AL, PE-SR401FL, RG401 PE4935](#)



## N Male Right Angle Connector Clamp/Solder Attachment for PE-SR401AL, PE-SR401FL, RG401

### TECHNICAL DATA SHEET

PE4935

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level

N Male Right Angle Connector Clamp/Solder Attachment for PE-SR401AL, PE-SR401FL, RG401 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

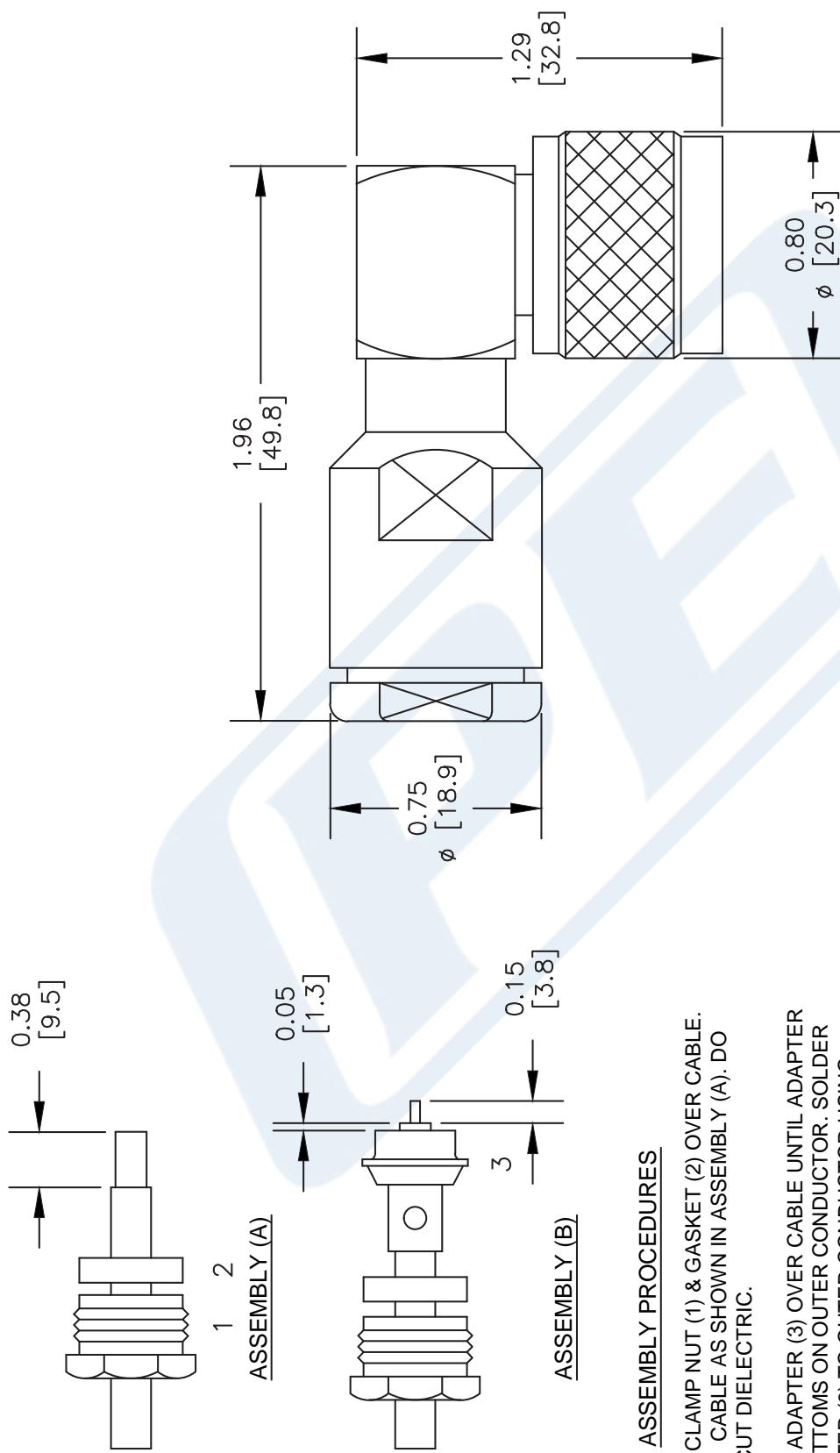
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle Connector Clamp/Solder Attachment for PE-SR401AL, PE-SR401FL, RG401 PE4935](#)

URL: <http://www.pasternack.com/n-male-standard-pe-sr401al-pe-sr401fl-rg401-connector-pe4935-p.aspx>

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# PE4935 CAD Drawing

N Male Right Angle Connector Clamp/Solder Attachment  
for PE-SR401AL, PE-SR401FL, RG401



## ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1) & GASKET (2) OVER CABLE.  
STRIP CABLE AS SHOWN IN ASSEMBLY (A). DO  
NOT CUT DIELECTRIC.
2. SLIDE ADAPTER (3) OVER CABLE UNTIL ADAPTER  
(3) BOTTOMS ON OUTER CONDUCTOR. SOLDER  
ADAPTER (3) TO OUTER CONDUCTOR USING  
MINIMUM HEAT.
3. STRIP CABLE AS SHOWN IN ASSEMBLY (B).  
SOLDER CONTACT TO CENTER CONDUCTOR.  
SLIDE ASSEMBLY FORWARD & TIGHTEN TO  
BODY.

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).  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

PASTERNAK®	DWG TITLE
<b>PE</b>	<b>PE4935</b>
Pasternack Enterprises, Inc. P.O. Box 16759   Irvine   CA   92623 Phone: (949) 261-1920   Fax: (949) 261-7451 Website: <a href="http://www.pasternack.com">www.pasternack.com</a>   E-Mail: <a href="mailto:sales@pasternack.com">sales@pasternack.com</a>	
FSQM NO.	CAD FILE
53919	061802
SCALE	SIZE
N/A	A
xxxx	

## 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](#)

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## RG401 Coax Cable with Copper

### TECHNICAL DATA SHEET

RG401/U

**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](http://www.Pasternack.com) for current document)

RoHS Compliant	Yes
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**Plotted and Other Data**

Notes:	Values at 25 °C, sea level
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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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**PASTERNACK ENTERPRISES RG401/U**

IMPEDANCE: 50 OHMS  
INNER CONDUCTOR DIAMETER: .0641"  
INNER CONDUCTOR MATERIAL: SILVER COVERED COPPER  
DIELECTRIC DIAMETER: .209"  
DIELECTRIC MATERIAL: SOLID POLYETRAFLUOROETHYLENE  
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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2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

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		COAXIAL & FIBER OPTICS									