



BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316

RF Connectors Technical Data Sheet

PE1948

Configuration

- BNC Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG188, RG316
- Bulkhead

Features

- Max. Operating Frequency 4 GHz
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Phosphor Bronze
- Contact
- Hermetically Sealed

Applications

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

Description

Pasternack's PE1948, BNC, Standard, Connector is part of our full line of RF components available for same-day shipping. Our BNC female connector operates up to a maximum frequency of 4 GHz and offers excellent VSWR of 1.2:1. This BNC 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 BNC female bulkhead connector PE1948 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		4	GHz
VSWR			1.2:1	
Insertion Loss			0.2	dB
Operating Voltage (AC)			500	Vrms
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length 1.19 in [30.23 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316 PE1948](#)



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Width	0.69 in [17.53 mm]
Height	0.69 in [17.53 mm]
Weight	0.06 lbs [27.22 g]
Mating Cycles	500 Cycles
Mating Torque	0.6 to 2.5 in-lbs [0.07 to 0.28 Nm]
Cable Retention Force	6.1 lbs 2.77 kg

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Gold over Nickel over Copper
Insulation	PTFE	
Body	Brass	Tri-Metal over Copper
Coupling Nut	Brass	Tri-Metal over Copper
Gasket	Silicone	
Washer	Brass	Tri-Metal over Copper

Environmental Specifications

Temperature

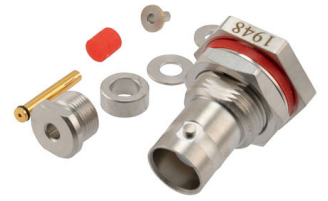
Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method106
Thermal Shock	MIL-STD-202, Method107, Condition B
Salt Spray	MIL-STD-202, Method101, Condition B
Hermetic Seal	1*10-6cc/sec helium at 1atm

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: [BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316 PE1948](#)



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RF Connectors Technical Data Sheet

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BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316 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.

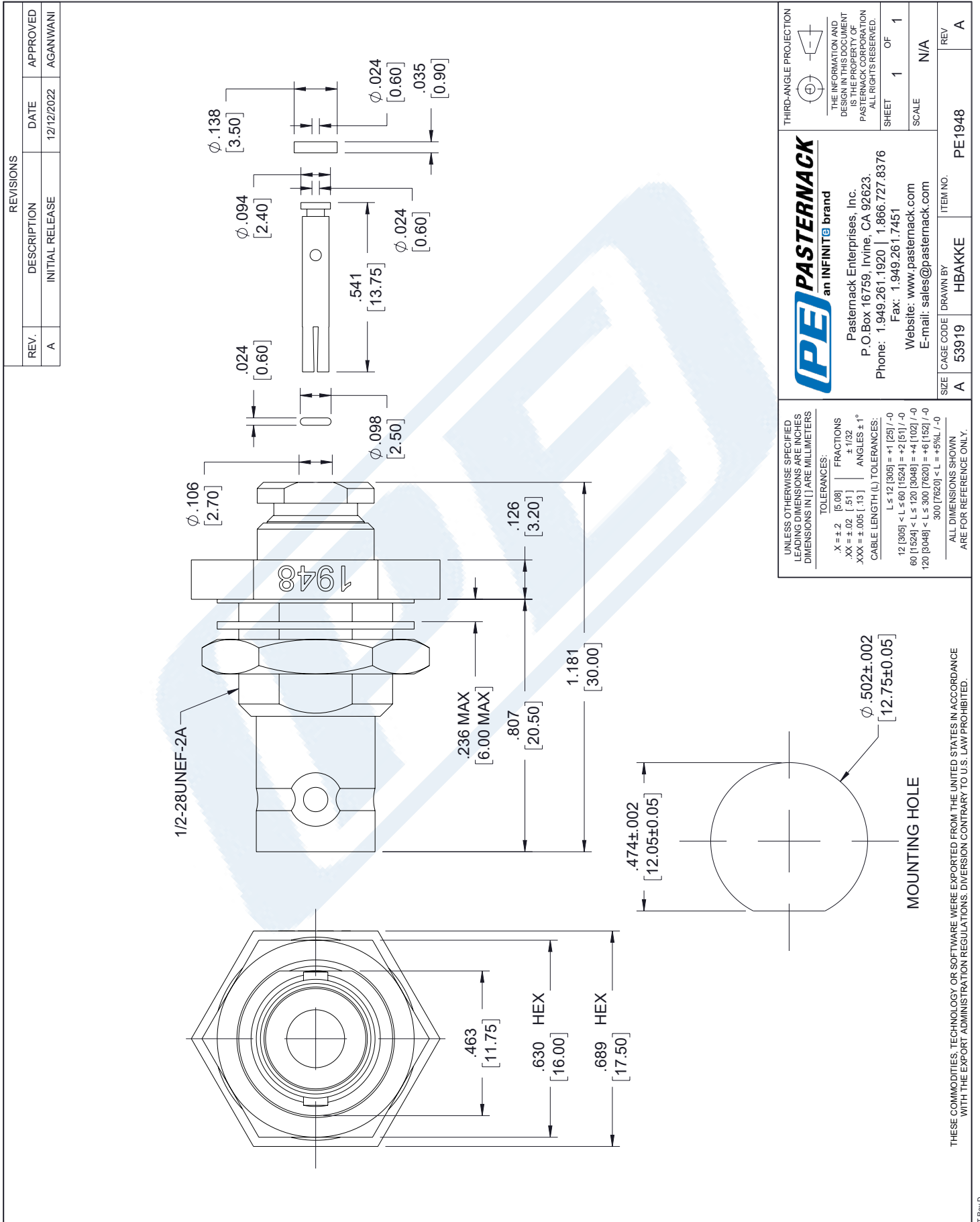
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316 PE1948](https://www.pasternack.com/bnc-female-rg174-rg188-rg316-connector-pe1948-p.aspx)

URL: <https://www.pasternack.com/bnc-female-rg174-rg188-rg316-connector-pe1948-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.

PE1948 CAD Drawing

BNC Female Bulkhead Mount Hermetically Sealed Connector
Clamp/Solder Attachment for RG174, RG188, RG316





QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402

TECHNICAL DATA SHEET

PE44599

QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402

Configuration

Connector	QN Male
Connector Interface Type	PE-SR402AL, PE-SR402FL, RG402
Cable Attachment Method (Shield/Contact)	Solder/Solder
Body Style	Straight

Electrical Specifications

Impedance, Ohms	50
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Mechanical Specifications

Size

Length, in [mm]	0.992 [25.2]
Width/Dia., in [mm]	0.748 [19.00]
Weight, lbs [g]	0.082 [37.19]

Connector

Type	QN Male
Contact Material and Plating	Gold
Body Material and Plating	Brass, Tri-Metal
Dielectric Type	PTFE

Compliance Certifications (visit 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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QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 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.

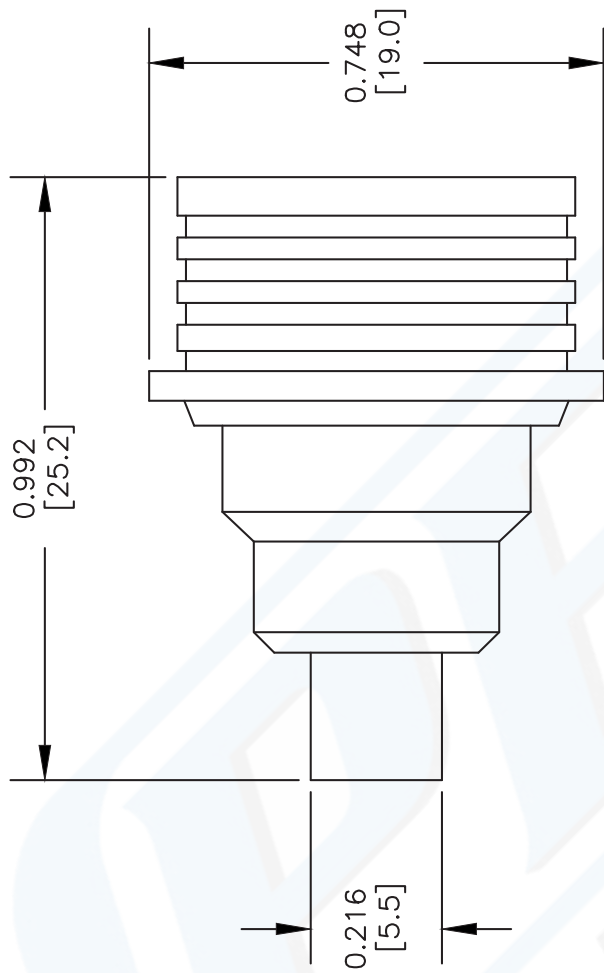
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 PE44599](http://www.pasternack.com/qn-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe44599-p.aspx)

URL: <http://www.pasternack.com/qn-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe44599-p.aspx>

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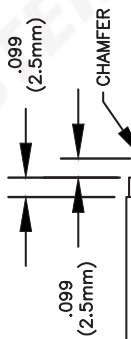
PE44599 CAD Drawing

QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402

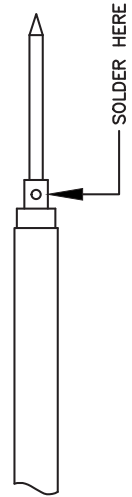


ASSEMBLY INSTRUCTIONS

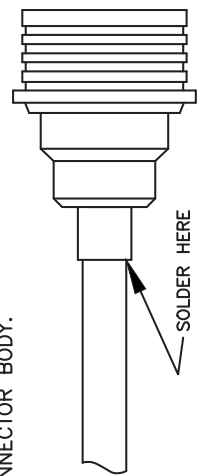
1. STRIP CABLE AS SHOWN AND CHAMFER CENTER CONDUCTOR.



2. SLIDE CONTACT OVER CENTER CONDUCTOR AND SOLDER IT.



3. INSERT STRIPPED CABLE INTO THE BODY UNTIL IT STOPS. SOLDER THE COPPER JACKET TO THE CONNECTOR BODY.



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DWG TITLE

PE44599

FSCM NO. 53919

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.

CAD FILE 061608

SCALE N/A

SIZE A

XXX

RG402 Coax Cable with Copper Outer Conductor

RF Cables Technical Data Sheet

RG402/U

Configuration

- Semi-Rigid Cable
- M17/130-RG402
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		34	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Corona Discharge at 60 Hz			1,900	Vrms

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	18	GHz
Attenuation, Typ	7.6	11.1	28.1	43.4	63.6	dB/100ft
	24.93	36.42	92.19	142.39	208.66	dB/100m
Input Power (CW), Max	600	450	180	120	73	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	26.5					GHz
Attenuation, Typ	82.8					dB/100ft
	271.65					dB/100m
Input Power (CW), Max	70					Watts

Mechanical Specifications

Min. Bend Radius (Repeated)

0.25 in [6.35 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG402 Coax Cable with Copper Outer Conductor RG402/U](#)

RG402 Coax Cable with Copper Outer Conductor

RF Cables
Technical Data Sheet

RG402/U

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.036 in 0.91 mm
Conductor Type	Solid	
Dielectric	PTFE	0.118 in [3 mm]
Outer Conductor	Copper .141	
Jacket	Tan	

Environmental Specifications**Temperature**

Operating Range -55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)**Plotted and Other Data**

Notes:

RG402 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.

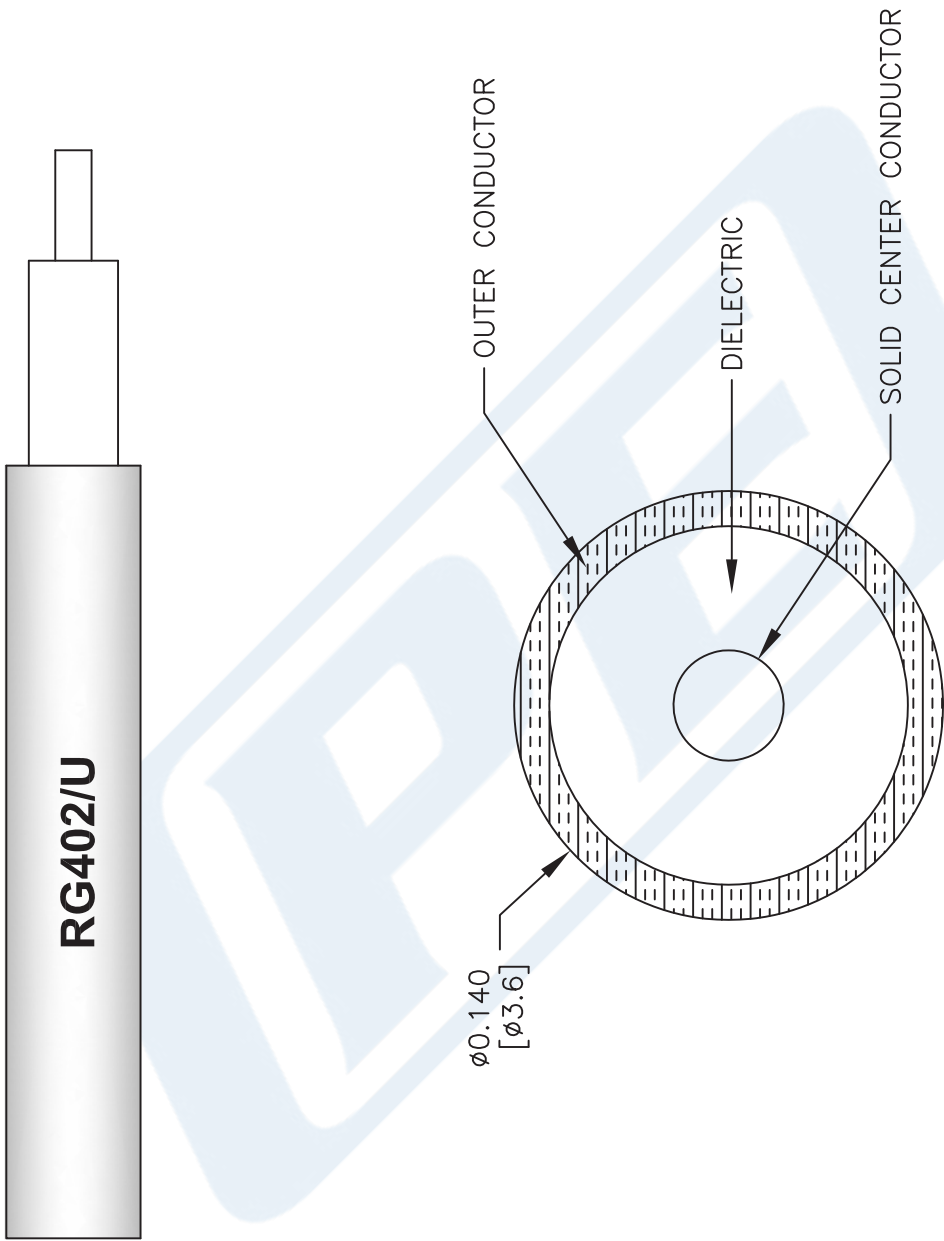
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG402 Coax Cable with Copper Outer Conductor RG402/U](#)

URL: <https://www.pasternack.com/semirigid-0.141-rg402-50-ohm-coax-cable-copper-rg402-u-p.aspx>

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RG402/U CAD Drawing

RG402 Coax Cable with Copper Outer Conductor



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DWG TITLE
RG402/U

FSCM NO. 53919

SIZE A

41742

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