

BMA Plug Bulkhead Mount Slide-On Connector Solder/Non-Solder Contact Attachment for RG402, PE-SR402AL, PE-SR402FL, PE-SR402FLJ, Gold Plated



RF Connectors Technical Data Sheet

PE45313

Configuration

- Slide-On BMA Plug Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG402, PE-SR402AL, PE-

- SR402FL, PE-SR402FLJ, PE-SR402TN
- Bulkhead
- 11 mm Hex

Features

- Max. Operating Frequency 22 GHz
- Good VSWR of 1.28:1
- Gold Plated Beryllium Copper Contact
- 51.18 μ in. minimum contact plating

- Blind Mate Connector
- IP54
- Low-Engagement Force

Applications

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

- Blind Mating
- Rack and Panel
- Phased Array Systems

- Base Stations
- RF Backplanes
- Test I/O

Description

Pasternack's PE45313 BMA plug slide-on bulkhead connector with solder/non-solder contact attachment for RG402, PE-SR402AL, PE-SR402FL, PE-SR402FLJ and PE-SR402TN is part of our full line of RF components available for same-day shipping. Our BMA plug connector operates up to a maximum frequency of 22 GHz and offers good VSWR of 1.28:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. This BMA 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 BMA plug bulkhead connector PE45313 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		22	GHz
VSWR			1.28:1	
Insertion Loss			0.14	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Plug Bulkhead Mount Slide-On Connector Solder/Non-Solder Contact Attachment for RG402, PE-SR402AL, PE-SR402FL, PE-SR402FLJ, Gold Plated PE45313](#)

BMA Plug Bulkhead Mount Slide-On Connector Solder/
Non-Solder Contact Attachment for RG402, PE-
SR402AL, PE-SR402FL, PE-SR402FLJ, Gold Plated



RF Connectors
Technical Data Sheet

PE45313

Mechanical Specifications

Size	
Length	0.7 in [17.78 mm]
Width/Dia.	0.43 in [10.92 mm]
Weight	0.007 lbs [3.18 g]
Mating Cycles	1,000 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 51.18 μ in. minimum
Insulation	PTFE	
Outer Conductor	Stainless Steel	Gold 19.68 μ in. minimum
Body	Stainless Steel	Gold 19.68 μ in. minimum
Washer	Brass	Nickel
O-Ring	Silicone Rubber	

Environmental Specifications

Temperature	
Operating Range	-65 to +125 deg C
Ingress Protection (IP) Rating	IP54

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: [BMA Plug Bulkhead Mount Slide-On Connector Solder/Non-Solder Contact Attachment for RG402, PE-SR402AL, PE-SR402FL, PE-SR402FLJ, Gold Plated PE45313](#)



BMA Plug Bulkhead Mount Slide-On Connector Solder/ Non-Solder Contact Attachment for RG402, PE- SR402AL, PE-SR402FL, PE-SR402FLJ, Gold Plated

RF Connectors Technical Data Sheet

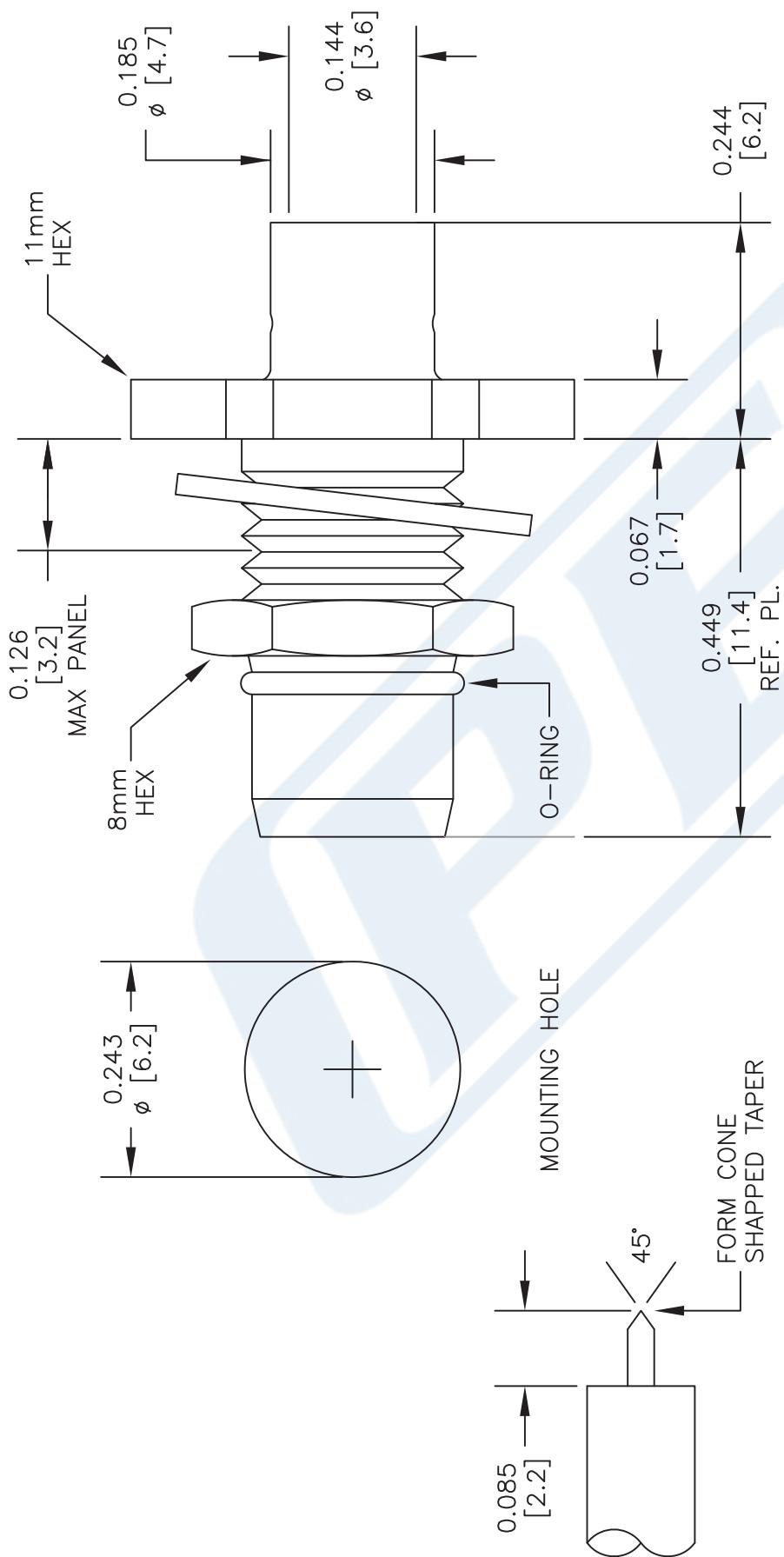
PE45313

BMA Plug Bulkhead Mount Slide-On Connector Solder/Non-Solder Contact Attachment for RG402, PE-SR402AL, PE-SR402FL, PE-SR402FLJ, Gold Plated 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: [BMA Plug Bulkhead Mount Slide-On Connector Solder/Non-Solder Contact Attachment for RG402, PE-SR402AL, PE-SR402FL, PE-SR402FLJ, Gold Plated PE45313](#)

URL: <https://www.pasternack.com/bma-plug-slide-on-rg402-pe-sr402al-pe-sr402fl-pe-sr402flj-connector-pe45313-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.

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN, DO NOT NICK CENTER CONDUCTOR.
2. SLIDE CABLE INTO CONNECTOR INSURING CENTER CONDUCTOR MATES WITH CENTER PIN.
3. OUTER CONDUCTOR BOTTOMS OUT WITH BODY SHOULDER. SOLDER OUTER CONDUCTOR TO BODY.

STANDARD TOLERANCES
 .X ± 0.2
 .XX ± 0.1
 .XXX ± 0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].

DWG TITLE	PE45313	CAGE CODE	53919	CAD FILE	022117	SCALE	N/A	SIZE	A	2233
PASTERNACK® THE ENGINEER'S RF SOURCE Pasternack Enterprises, Inc. P.O. Box 16759 Irvine CA 92623 Phone: (949) 261-1920 Fax: (949) 261-7451 Website: www.pasternack.com E-Mail: sales@pasternack.com										

SMA Male Connector Solder (Without Contact)
Attachment for PE-SR402AL, PE-SR402FL,
PE-SR402FLJ, PE-SR402TN, RG402

PE4007



Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402
- 5/16 inch Hex

Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.23:1

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4007, SMA, Standard, Connector is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.23:1.

Our SMA male connector PE4007 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		18	GHz
VSWR			1.23:1	
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			2	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	60			dB
Impedance		50		Ohms

Electrical Specification Notes:

Insertion loss: $0.06 \times \sqrt{f\text{GHz}}$ dB max up to 6 GHz.

Mechanical Specifications

Size	
Length	0.44 in [11.18 mm]
Width	0.312 in [7.92 mm]
Height	0.312 in [7.92 mm]
Weight	0.007 lbs [3.18 g]
Mating Cycles	500 Cycles
Mating Torque	3 to 5 in-lbs [[0.34 to 0.57 Nm]]

SMA Male Connector Solder (Without Contact)
Attachment for PE-SR402AL, PE-SR402FL,
PE-SR402FLJ, PE-SR402TN, RG402

PE4007



Material Specifications

Description	Material	Plating
Body	Stainless Steel	Gold
Coupling Nut	Brass	Nickel
Gasket	Silicone	
Washer	Stainless Steel	

Environmental Specifications

Temperature	-65 to +165 deg C
Operating Range	
Vibration	MIL-STD-202, Method 204, Condition B
Temperature Cycle	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 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.

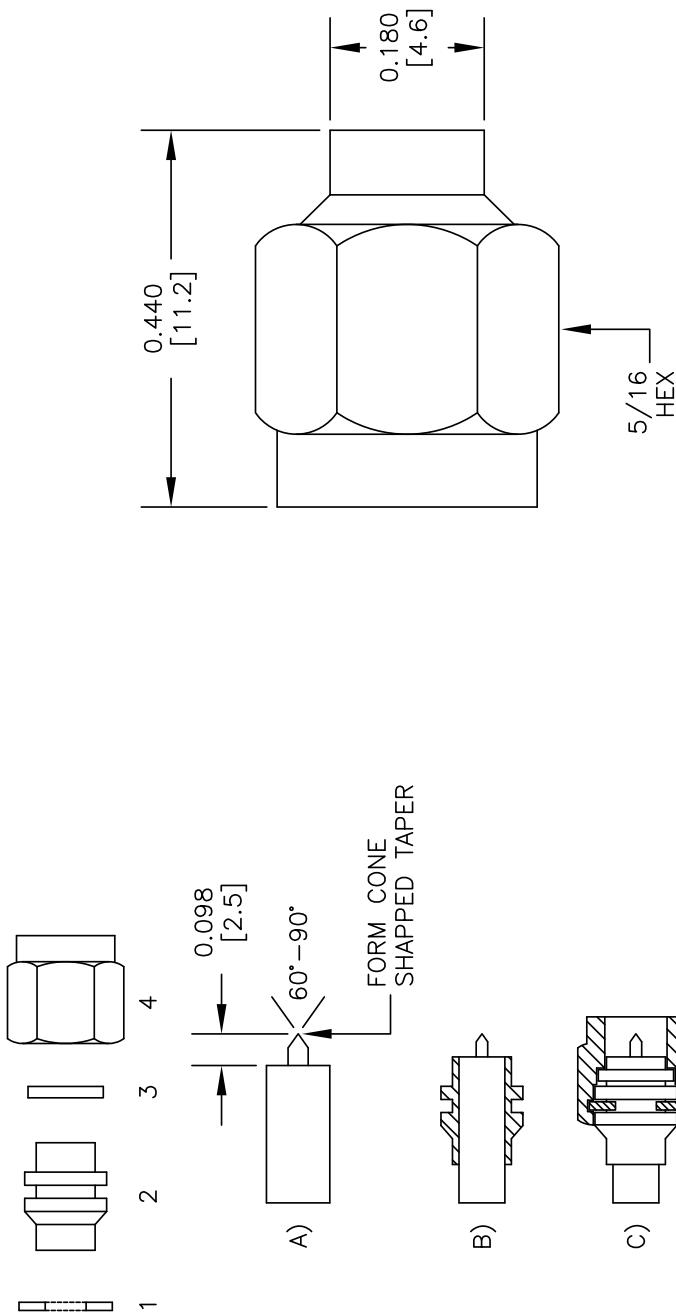
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder \(Without Contact\) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE4007](#)

URL: <https://www.pasternack.com/sma-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe4007-p.aspx>

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PE4007 CAD Drawing

SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A).
DO NOT NICK CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY (2) UNTIL
OUTER CONDUCTOR FLUSH WITH
BODY AS SHOWN IN (B). SOLDER
OUTER CONDUCTOR TO BODY.
3. ASSEMBLE GASKET (3), RETAINING
RING (1) AND COUPLING NUT (4), AS
SHOWN IN (C).

STANDARD TOLERANCES		
.X	±0.008	
.XX	±0.004	
.XXX	±0.002	

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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DWG TITLE	PE4007	CAD FILE	031416	SCALE	N/A	SIZE	A	3045
FSCM NO.	53919							

RG402 Coax Cable with Copper Outer Conductor



RG402/U

Configuration

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

Features

- Frequency range of 34 GHz
- Can be bent and formed into shape
- Low Loss
- Phase Stable

Applications

- Military & Defense
- Cable Assemblies
- Precise cable routing

Description

RG402/U part number from Pasternack is a RG402 coax cable that is semi-rigid. Pasternack RG402 semi-rigid coax cable is 50 Ohm and has a PTFE dielectric. RG402 coax has a shield count of 1 and the maximum frequency for this Pasternack cable is 34 GHz. RG402 coax cable has an attenuation at 1 GHz of 11.1 dB and a maximum power of 450 watts at 1 GHz.

Pasternack RG402 coax cables are part of over 40,000 RF, microwave and millimeter wave components. RG402 cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using RG402 or other coax can be built and shipped same day as well.

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
Power@ 1GHz			450	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	10	18	26.5	GHz
Attenuation, Typ	7.6	11.1	43.4	63.6	82.8	dB/100ft
	24.93	36.42	142.39	208.66	271.65	dB/100m
Input Power (CW), Max	600	450	120	73	70	Watts

Mechanical Specifications

Weight	0.032 lbs/ft [0.05 kg/m]
Min. Bend Radius (Repeated)	0.25 in [6.35 mm]

RG402 Coax Cable with Copper Outer Conductor



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	0.141 in [3.5 mm]
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.

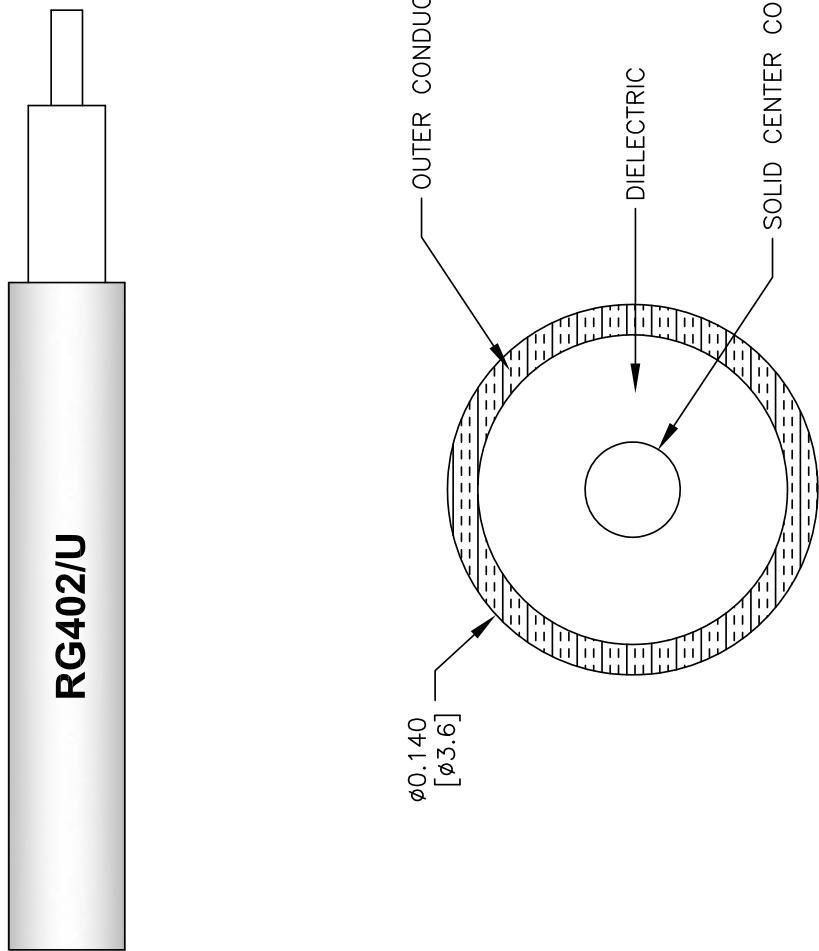
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG402 Coax Cable with Copper Outer Conductor RG402/U](#)

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

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FSCM NO.	CAD FILE	SCALE N/A	SIZE A	41742
53919	111816			