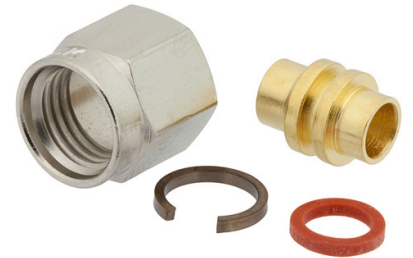


SMA Male Connector Solder (Without Contact)  
Attachment for PE-SR402AL, PE-SR402FL,  
PE-SR402FLJ, PE-SR402TN, RG402



**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 x sqrt(fGHz) 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**

Operating Range

-65 to +165 deg C

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.

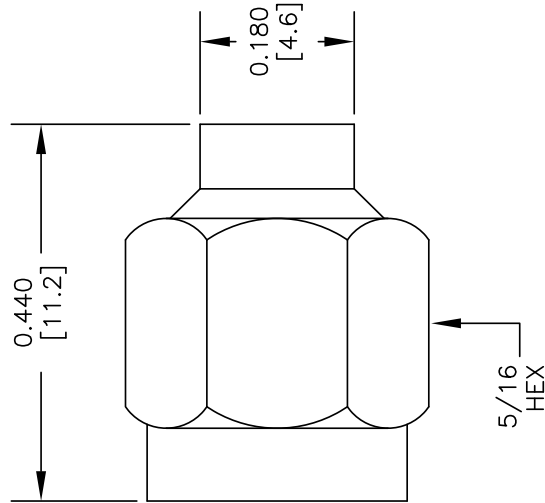
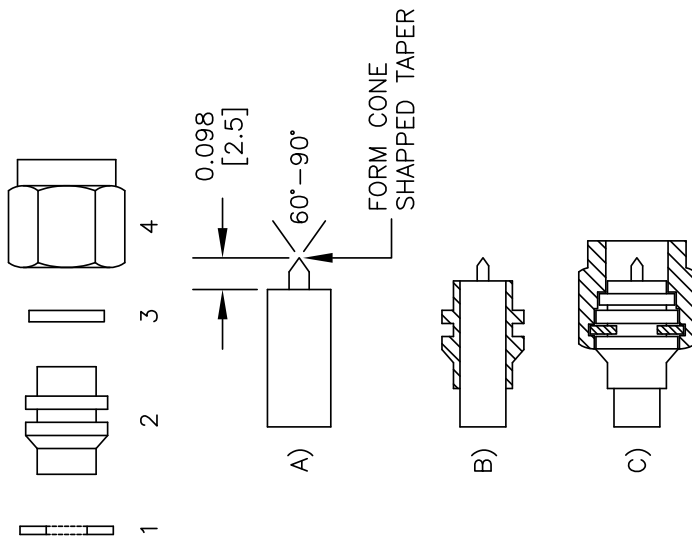
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URL: <https://www.pasternack.com/sma-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe4007-p.aspx>

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# PE4007 CAD Drawing

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



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

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

### 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).

DWG TITLE

**PE4007**

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].

FSCM NO. 53919

CAD FILE 031416

SCALE N/A

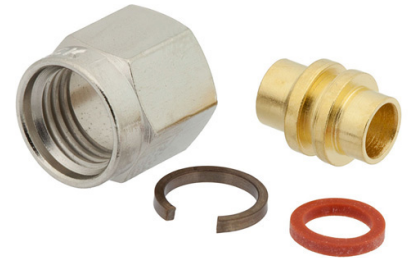
SIZE A

3045



Pasternack Enterprises, Inc.  
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 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
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**Applications**

- General Purpose Test
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Insulation Resistance	5,000			MOhms
RF Leakage	60			dB
Impedance		50		Ohms

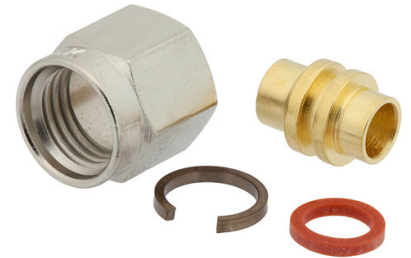
Electrical Specification Notes:  
Insertion loss: 0.06 x sqrt(fGHz) dB max up to 6 GHz.

**Mechanical Specifications**

**Size**

- Length 0.44 in [11.18 mm]
- Width 0.312 in [7.92 mm]
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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**

Operating Range

-65 to +165 deg C

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:

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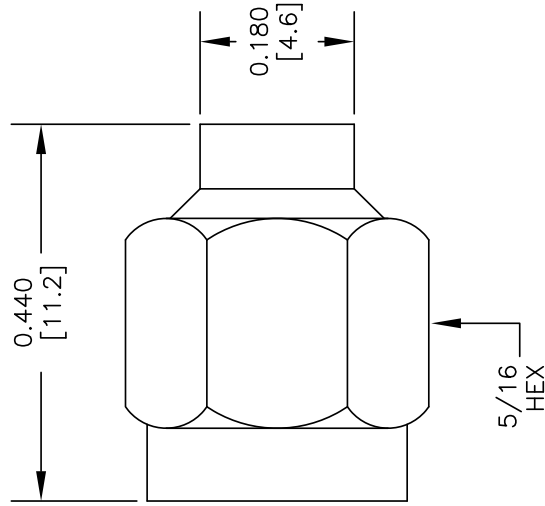
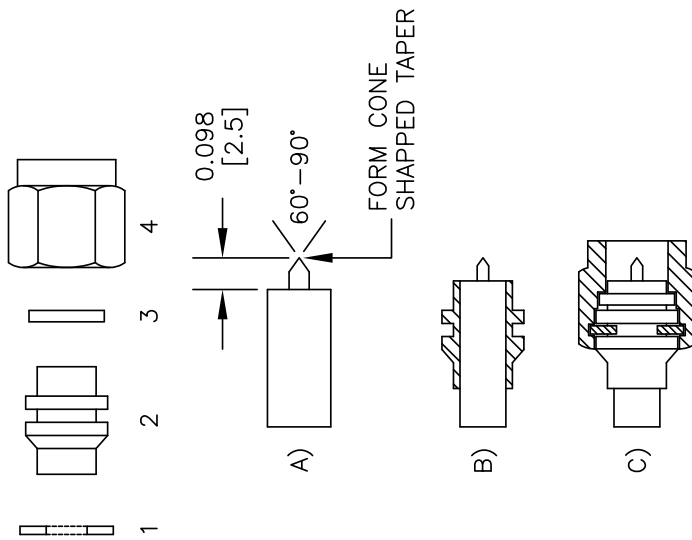
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URL: <https://www.pasternack.com/sma-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe4007-p.aspx>

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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

DWG TITLE

**PE4007**

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**(PE) PASTERNAK®**  
 THE ENGINEER'S RF SOURCE  
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 Website: www.pasternack.com | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 031416

SCALE N/A

SIZE A

3045



# 0.141 Semi Rigid Non-Magnetic Cable with Silver Plated Copper Conductor

## RF Cables Technical Data Sheet

**PE-SR141-NM**

### Configuration

- Non-Magnetic Semi-Rigid Cable
- 1 Shield(s)

### Features

- Max Frequency 34 GHz
- Magnetic Susceptibility  $10^{-5}$

### Applications

- General Purpose Test
- Medical
- Quantum Computing
- Custom Cable Assemblies
- Military and Aerospace

### Description

Pasternack's 0.141 semi-rigid non-magnetic cable uses series coaxial is available for same-day shipping from our facility. PE-SR141-NM cables from Pasternack are great choices for solutions requiring high quality and rapid shipping. Our non-magnetic RF cable has a 50 Ohm impedance and is rated for a 34 GHz maximum operating frequency. This high-quality cable is part of a large selection of in-stock, commercial-off-the-shelf, and custom-built coaxial cable assemblies for RF and microwave that all ship the same business day as they are ordered.

These semi-rigid RF cable assemblies are built with RF shielding of 165 dB and have a cable weight of 0.0183 lbs/ft. Our RF coaxial cable has a 0.036-inch SPC (silver-plated copper) conductor and a bending moment of 0.250 lbs-ft. The coaxial RF cable has a maximum attenuation of 82.8 dB/100ft and a maximum power of 70 Watts at a frequency of 26.5 GHz.

The technical performance specifications of this 34 GHz cable are located on the PE-SR141-NM datasheet PDF, along with a CAD drawing and dimensions. Our non-magnetic RF cable has a PTFE dielectric type. This RF non-magnetic cable has a copper outer conductor and a maximum operating temperature of 125 deg C. The Pasternack 0.141 semi-rigid RF cable assembly data sheet with specs and drawing dimensions can be found on this product page just above.

0.141 semi-rigid non-magnetic cable is one of a large selection of in-stock RF products available. Pasternack not only has this off-the-shelf but also custom versions of our cable assemblies are available for same-day shipping, we have thousands of other products that have same day shipping. Our expert technical support and knowledgeable sales teams are ready to help and answer your RF coaxial cable assembly questions.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		34	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Shielding Effectiveness	165			dB
Operating Voltage (AC)			5,000	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.141 Semi Rigid Non-magnetic Cable with Silver Plated Copper Conductor PE-SR141-NM](#)



## 0.141 Semi Rigid Non-Magnetic Cable with Silver Plated Copper Conductor

### RF Cables Technical Data Sheet

**PE-SR141-NM**

#### 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]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Silver Plated Copper, 1 Strand	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.118 in [3 mm]
	PTFE	
Outer Conductor	Copper 100% coverage	0 in [0 mm]
Jacket	Copper	[ ]

#### Environmental Specifications

##### Temperature

Operating Range -55 to +125 deg C  
Storage Range -55 to +125 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.141 Semi Rigid Non-magnetic Cable with Silver Plated Copper Conductor PE-SR141-NM](#)



## 0.141 Semi Rigid Non-Magnetic Cable with Silver Plated Copper Conductor

### RF Cables Technical Data Sheet

**PE-SR141-NM**

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

#### Plotted and Other Data

Notes:

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URL: <https://www.pasternack.com/non-magnetic-semirigid-pe-sr141-nm-coax-cable-copper-pe-sr141-nm-p.aspx>

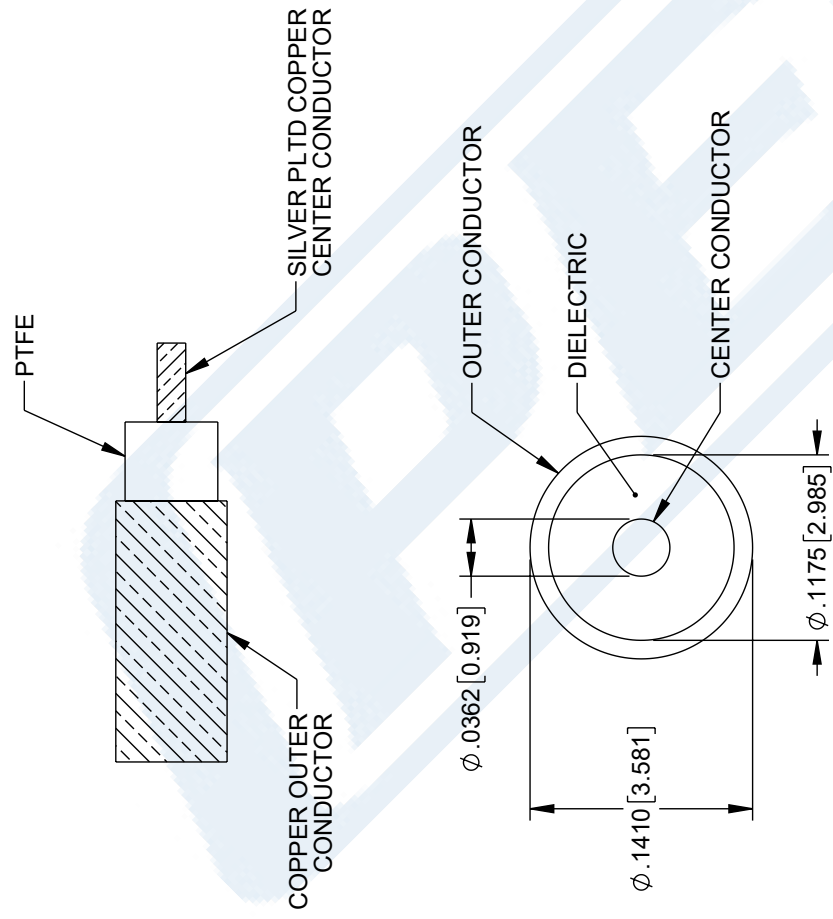
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# PE-SR141-NM CAD Drawing

0.141 Semi Rigid Non-Magnetic Cable with Silver Plated Copper Conductor

ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
		A	INITIAL RELEASE	08/01/2023	DZINN	AGANWANI

REVISION	
1	
2	
3	
4	
5	
6	



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ± 2 [5] FRACTIONS  
 .XX = ± 02 [0.5] ± 1/32  
 .XXX = ± 005 [0.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 ≤ 12 [305] = +1 [25] / -0  
 > 12 [305] ≤ 60 [1524] = +2 [51] / -0  
 > 60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 > 120 [3048] ≤ 300 [7620] = +58 [1.5] / -0  
 > 300 [7620] = +58 [1.5] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY

**PE PASTERNAK**  
an INFINITIB brand

Website: [www.Pasternack.com](http://www.Pasternack.com)  
 Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION  
 .141 DIA COAX CABLE, SEMI-RIGID, COPPER OUTER CONDUCTOR, NON-MAGNETIC

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SIZE	CABLE CODE	DRAWN BY	ITEM NO.
A	53919	DZINN	PE-SR141-NM

REV A

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