



**N Male Connector Clamp/Solder Attachment  
For PE-SR402AL, PE-SR402FL, RG402**

**TECHNICAL DATA SHEET**

**PE4006**

**Configuration**

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

**Electrical Specifications**

Frequency Range, GHz	DC to 4
Impedance, Ohms	50
Maximum VSWR	1.5:1

**Mechanical Specifications**

<b>Size</b>	
Length, in [mm]	1.36 [34.54]
Width/Dia., in [mm]	0.8 [20.32]
Weight, lbs [g]	0.082 [37.19]

**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 Connector Clamp/Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 PE4006](#)



## N Male Connector Clamp/Solder Attachment For PE-SR402AL, PE-SR402FL, RG402

### TECHNICAL DATA SHEET

PE4006

#### Plotted and Other Data

Notes:

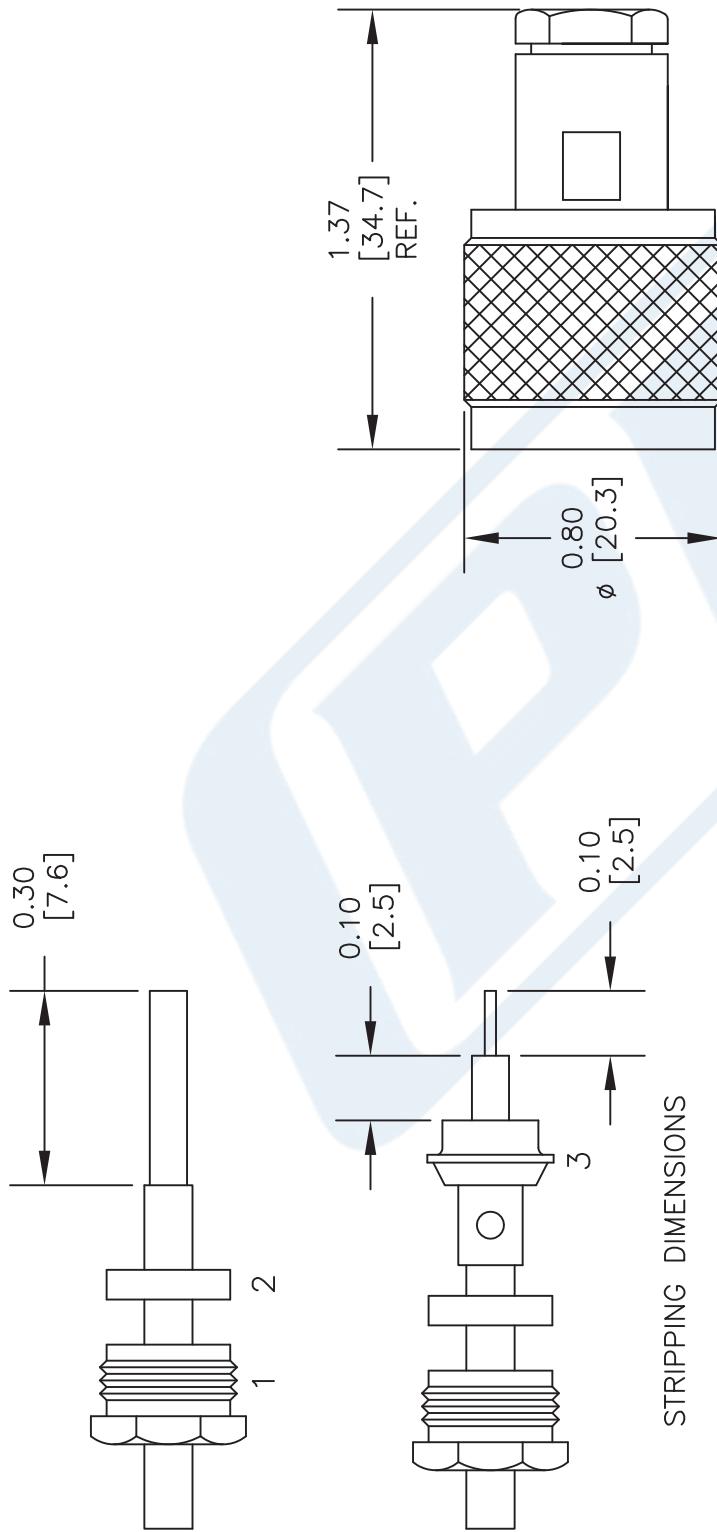
- Values at +25 °C, sea level

N Male Connector Clamp/Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 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 Connector Clamp/Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 PE4006](#)

URL: <http://www.pasternack.com/n-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe4006-p.aspx>

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#### 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.

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DWG TITLE  
**PE4006**

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.

FSCM NO.	CAD FILE	SCALE	SIZE	REV
53919	042109	N/A	A	127

## 3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



### RF Connectors Technical Data Sheet

**PE4981**

#### Configuration

- 3.5mm Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-

SR402TN, RG402 Interface Type

- Clamp/Solder Attachment
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 34 GHz
- Excellent VSWR of 1.2:1

- Gold over Nickel Plated Beryllium Copper Contact
- 50  $\mu$ in minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4981 3.5mm male connector with clamp/solder attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN and RG402 is part of our full line of RF components available for same-day shipping. Our 3.5mm male connector operates up to a maximum frequency of 34 GHz and offers excellent VSWR of 1.2:1.

Our 3.5mm male connector PE4981 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		34	GHz
VSWR			1.2:1	
Insertion Loss		0.233		dB
Operating Voltage (AC)		500		Vrms
Dielectric Withstanding Voltage (AC)		1,500		Vrms
High Potential Voltage			1,000	Vrms
5 to 7.5 MHz				
Corona Discharge @ 70000 ft			375	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	-90			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR-402FLJ, PE-SR402TN, RG402 PE4981](#)

## 3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



### RF Connectors Technical Data Sheet

**PE4981**

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 12.4	12.4 to 26.5	26.5 to 34			GHz
VSWR, Max	1.1:1	1.14:1	1.2:1			

Electrical Specification Notes:  
Insertion Loss is  $0.04 * \text{sqrt}(F(\text{GHz}))$  dB

#### Mechanical Specifications

##### Size

Length  
Width/Dia.

0.86 in [21.84 mm]  
0.32 in [8.13 mm]

Weight

0.012 lbs [5.44 g]

Mating Cycles  
Mating Torque

500 Cycles  
8 to 10 in-lbs [0.90 to 1.13 Nm]

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 $\mu$ in minimum
Insulation	PCTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700
Gasket	Silicone Rubber	

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +150 deg C

Humidity

MIL-STD-202, METHOD 106, (NO VIBRATION)

Shock

MIL-STD-202, METHOD 213, CONDITION I

Vibration

MIL-STD-202, METHOD 204, CONDITION D

Thermal Shock

MIL-STD-202, METHOD 107, CONDITION B

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: **3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE4981**



3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

RF Connectors  
Technical Data Sheet

PE4981

**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: [3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE4981](#)

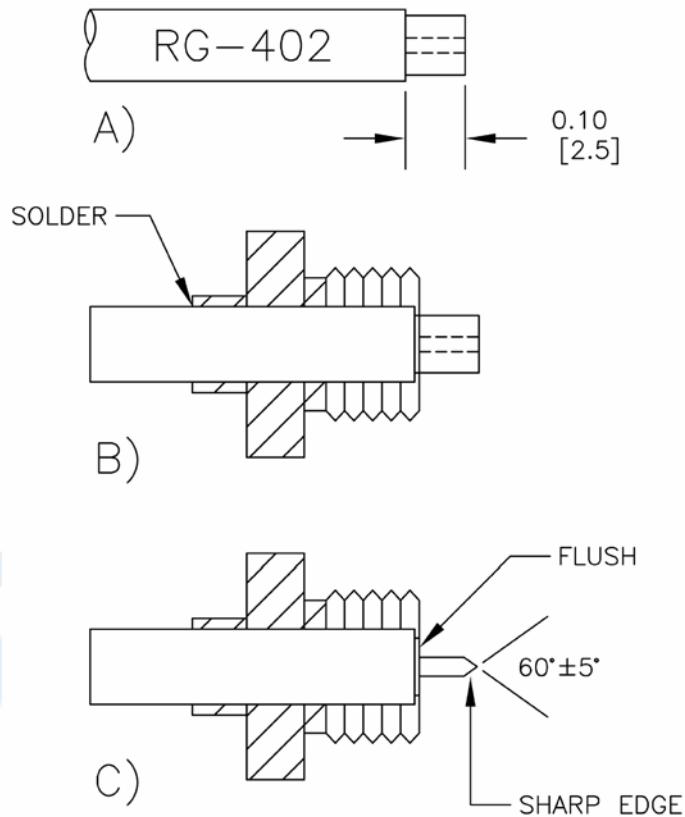
3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



RF Connectors  
Technical Data Sheet

PE4981

**Assembly Instruction**



**ASSEMBLY PROCEDURES**

1. STRIP CALBE AS SHOWN IN (A). DO NOT NICK CENTER DIELECTRIC.
2. INSERT CABLE THROUGH CLAMP NUT AS SHOWN IN (B). SOLDER OUTER CONDUCTOR TO CLAMP NUT.
3. TRIM DIELECTRIC AND POINT CENTER CONDUCTOR AS SHOWN IN (C).
4. INSERT CABLE SUB-ASSEMBLY INTO CONNECTOR UNTIL SEATED AND TORQUE TO 25-30 IN-LBS.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR-402FLJ, PE-SR402TN, RG402 PE4981](#)



## 3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

### RF Connectors Technical Data Sheet

PE4981

3.5mm Male Connector Clamp/Solder 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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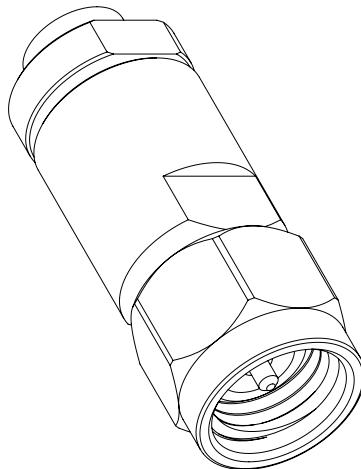
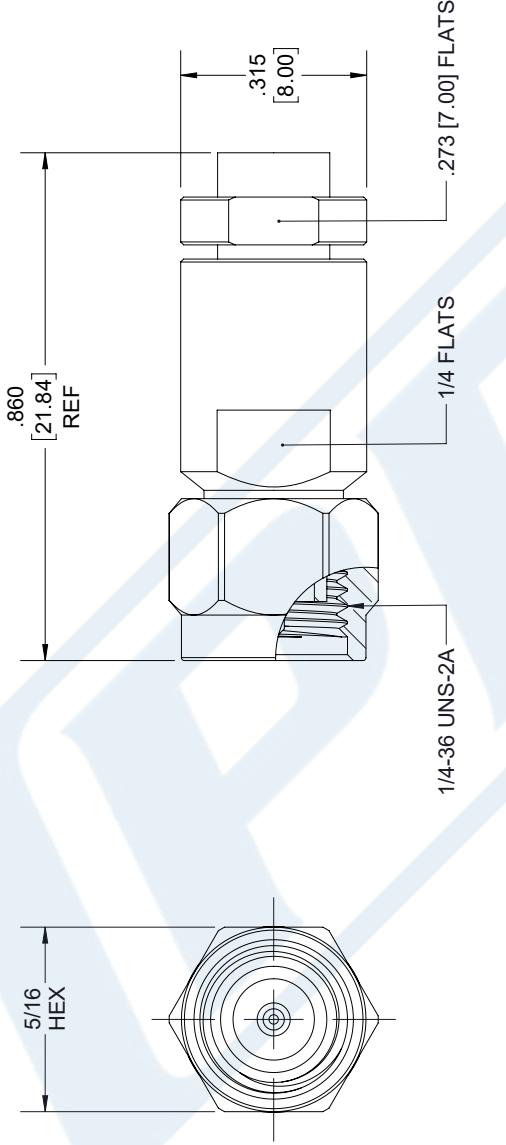
URL: <https://www.pasternack.com/3.5mm-male-pe-sr402al-pe-sr402fl-pe-sr402tn-rg402-connector-pe4981-p.aspx>

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# PE4981 CAD Drawing

3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL,  
PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
1.2	PCR PE4981 2019056	05/13/19	J.GARCIA	



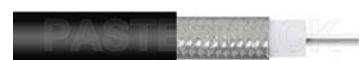
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www.pasternack.com   email: sales@pasternack.com	www.pasternack.com   email: sales@pasternack.com
SCALE	N/A
SIZE	REV
CAGE	
A	1.2
53919	
K.Dang	
PE4981	

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS  
TOLERANCES:  
X=± .002 [5.08] FRACTIONS  
.XX=± .01 [ .25 ] ± 1/32  
XXX=± .005 [ .13 ] ANGLES ± 1°

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.  
THIRD-ANGLE PROJECTION

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## Formable 141 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket

### RF Cables Technical Data Sheet

PE-SR402FLJ

#### Configuration

- Formable Cable

#### Features

- Dimensionally the same as standard solid outer conductor semi-rigid coax
- Standard semi-rigid connectors can be used
- Cable is hand formable and does not require special tools to bend

- Connectors are easily soldered to Tin soaked outer conductor
- Cable can be formed more than once without damage to outer conductor
- High RF Shielding >100 dB

#### Description

Formable semi-rigid coax is a hand formable version of standard semi-rigid that does not require complicated and costly pre-formed cable assemblies. Because the dimensions and electrical characteristics are so closely matched to semi-rigid coax, standard semi-rigid connectors can be used. The tin soaked copper braid outer shield provides excellent RF shielding. FEP Jacket reduces the chance of shorting exposed contacts or circuit conductors.

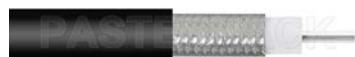
#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		34	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Time Delay		1.43 4.69		ns/ft ns/m
Shielding Effectiveness	100			dB
Operating Voltage (AC)			1,900	Vrms
Dielectric Withstanding Voltage (AC)			3,000	Vrms
Inner Conductor DC Resistance			8.23	Ohms/1000ft
Nominal Capacitance		29 [95.14]		pF/ft [pF/m]
Insulation Resistance	1,524			MOhms/1000ft

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	20	GHz
Attenuation, Typ	8.23	12.5	32	48.158	73.152	dB/100ft
	27	41.01	104.99	158	240	dB/100m
Input Power (CW), Max	436.5	303.4	126.7	85.5	56.6	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable PE-SR402FLJ Coax Cable with Tinned Copper Braid Outer Conductor and Black FEP Jacket PE-SR402FLJ](#)



## Formable 141 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket

### RF Cables Technical Data Sheet

**PE-SR402FLJ**

#### Mechanical Specifications

Diameter	0.161 in [4.09 mm]
Weight	0.032 lbs/ft [0.05 Kg/m]
Min. Bend Radius (Installation)	0.315 in [8 mm]
Min. Bend Radius (Repeated)	1.575 in [40.01 mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver1	0.036 in 0.91 mm
Conductor Type	Solid	
Dielectric	PTFE	0.117 in 2.97 mm
Outer Conductor	Tinned Copper Braid	0.139 in 3.53 mm
Jacket	FEP, Black	0.161 in [4.09 mm]

#### Environmental Specifications

##### Temperature

Operating Range	-65 to +150 deg C
Storage Range	10 to +35 deg C

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

#### Plotted and Other Data

Notes:

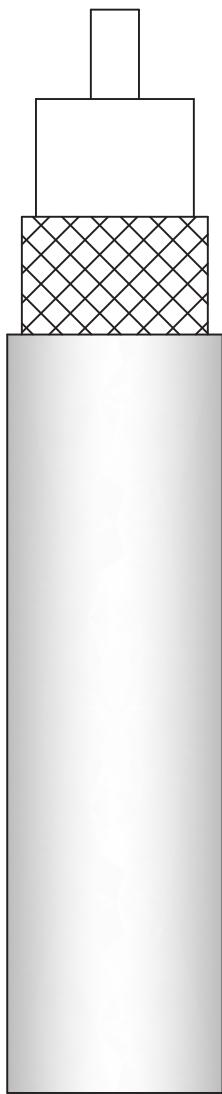
Formable 141 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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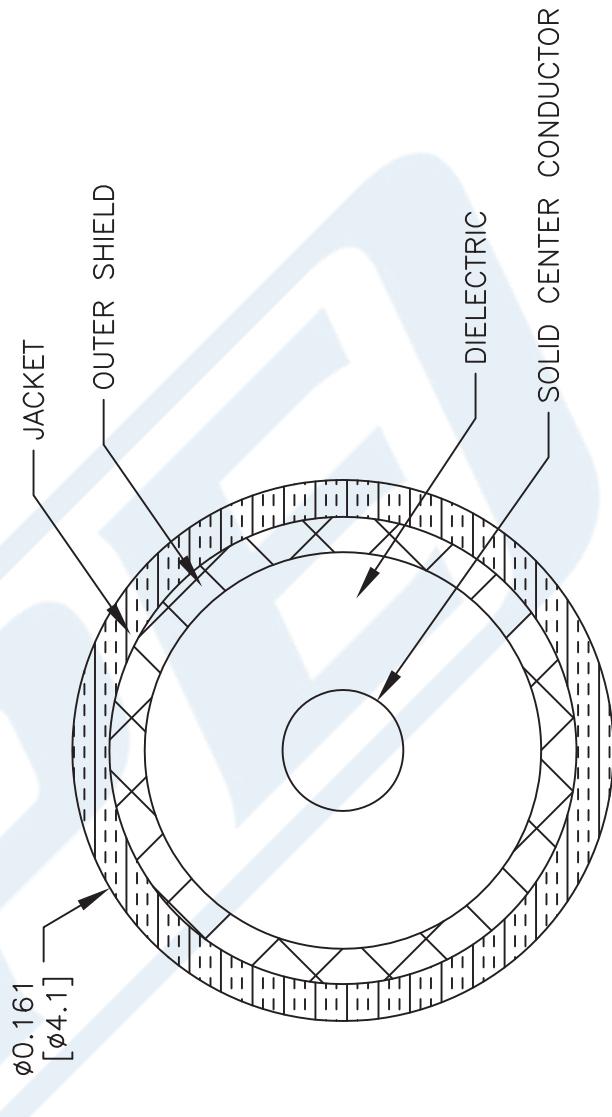
URL: <https://www.pasternack.com/50-ohm-formable-141-semirigid-tinned-braid-outer-conductor-fep-jacket-black-pe-sr402flj-p.aspx>

# PE-SR402FLJ CAD Drawing

Formable 141 Semirigid Coax Cable with Tinned Braid  
Outer Conductor and Black FEP Jacket



**PE-SR402FLJ**



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DWG TITLE	PE-SR402FLJ
FSCM NO. 53919	CAD FILE 111716 SCALE N/A SIZE A 41742

NOTES:  
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