



QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68

RF Connectors Technical Data Sheet

PE44604

Configuration

- QN Male Connector
- 50 Ohms
- Right Angle Body Geometry
- PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 Interface Type
- Solder/Solder Attachment
- Low PIM Design

Features

- Max. Operating Frequency 11 GHz
- PIM levels lower than -160 dBc
- Gold Plated Brass Contact
- IP68 0.3 bar (interface only)

Applications

- General Purpose Test
- Custom Cable Assemblies
- Wireless Communications
- Low PIM Applications

Description

Pasternack's PE44604 QN male right angle low PIM connector with solder/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 QN male connector operates up to a maximum frequency of 11 GHz. The QN male connector also has low passive intermodulation of -160 dBc. Its right angle body geometry allows for easier connections in tight spaces. The connector has an IP68 rating to protect against dust and prolonged moisture protection under immersion conditions.

Our QN male right angle connector PE44604 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		11	GHz
Passive Intermodulation using 2x20W tones			-160	dBc
Operating Voltage (AC)			1,000	Vrms
Test Voltage (AC)			2,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1.5	mOhms
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: [QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68 PE44604](#)



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RF Connectors Technical Data Sheet

PE44604

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2.5	2.5 to 4	4 to 6			GHz
VSWR, Max	1.06:1	1.09:1	1.12:1			

Electrical Specification Notes:
RF leakage: 90 dB (up to 3 GHz) min.
Insertion loss = $0.05 \times \sqrt{f(\text{GHz})}$ dB max.

Mechanical Specifications

Size	
Length	1.039 in [26.39 mm]
Width/Dia.	0.75 in [19.05 mm]
Weight	0.052 lbs [23.59 g]
Mating Cycles	100 Cycles

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal
Body	Brass	Silver 3 µm minimum

Environmental Specifications

Temperature	
Operating Range	-40 to +125 deg C
Ingress Protection (IP) Rating	IP68 0.3 bar (interface only)
Humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition A
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

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QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68

RF Connectors Technical Data Sheet

PE44604

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

Plotted and Other Data

Notes:

QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68 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.

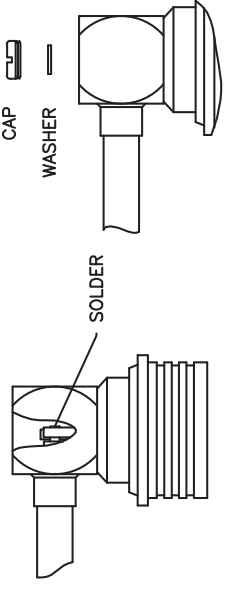
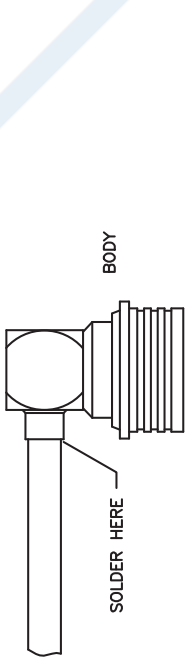
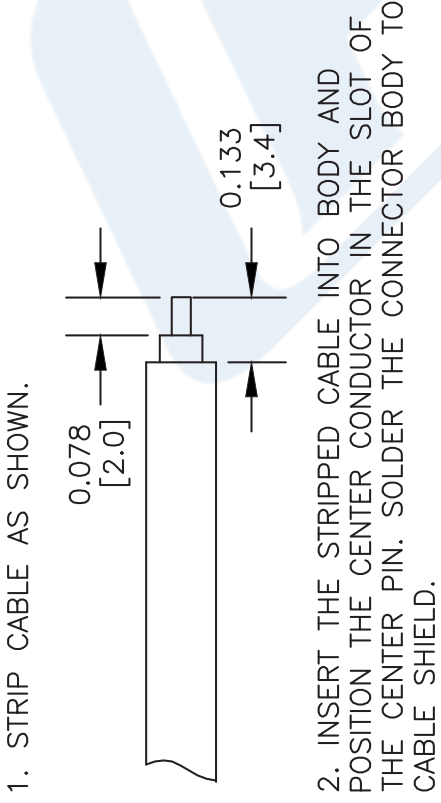
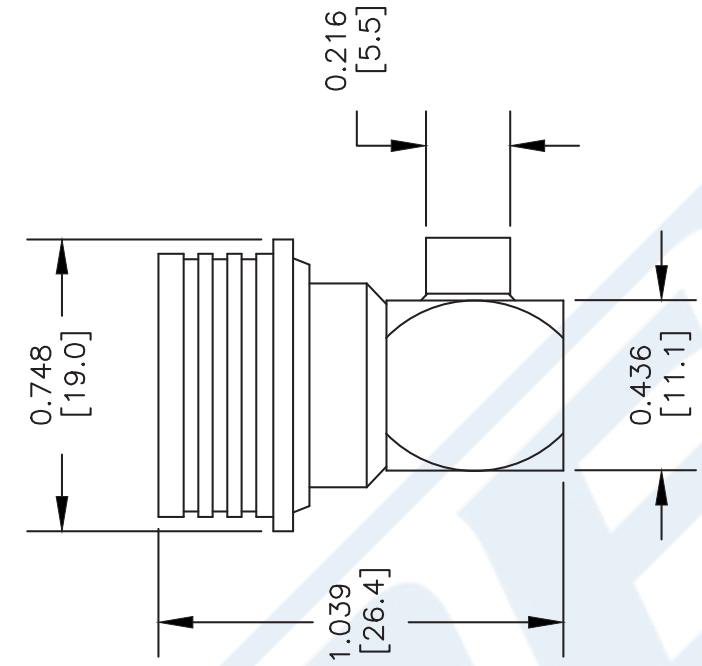
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URL: <https://www.pasternack.com/qn-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe44604-p.aspx>

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.

PE44604 CAD Drawing

QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68



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.

DWG TITLE
PE44604

FSCM NO. 53919

SIZE A

SCALE N/A

CAD FILE 082908

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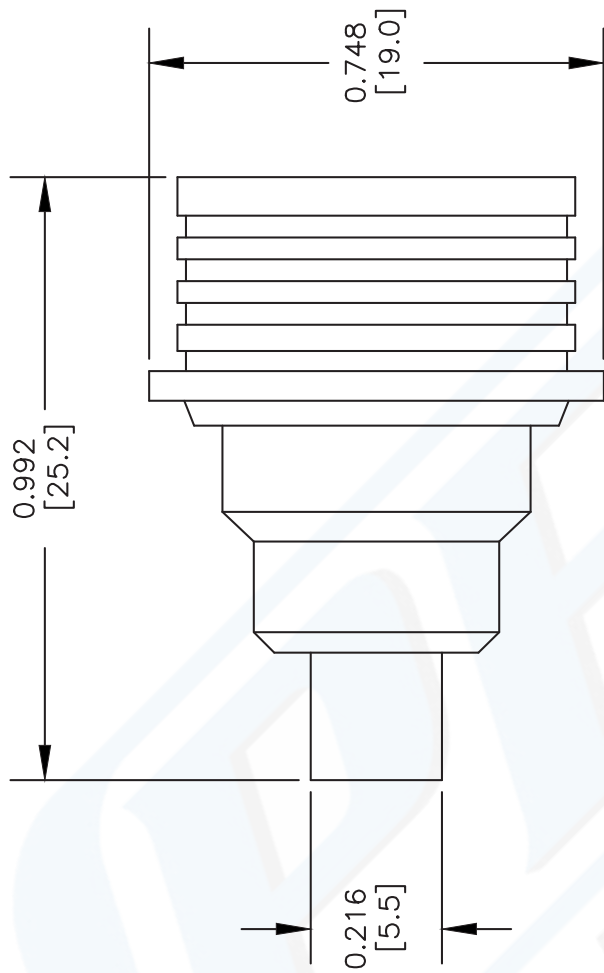
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 PE44599](http://www.pasternack.com/qn-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe44599-p.aspx)

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

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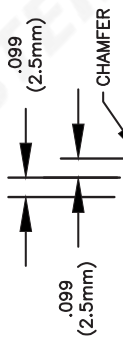
PE44599 CAD Drawing

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

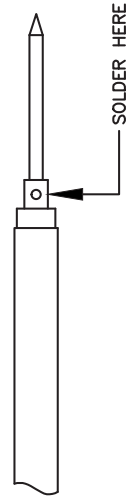


ASSEMBLY INSTRUCTIONS

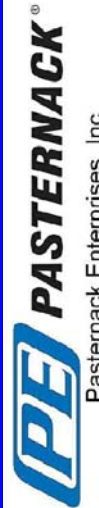
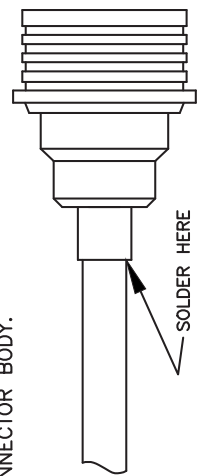
1. STRIP CABLE AS SHOWN AND CHAMFER CENTER CONDUCTOR.



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:

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- 3. DIMENSIONS ARE IN INCHES [mm].
- 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE 061608

SCALE N/A

SIZE A

XXXX



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:

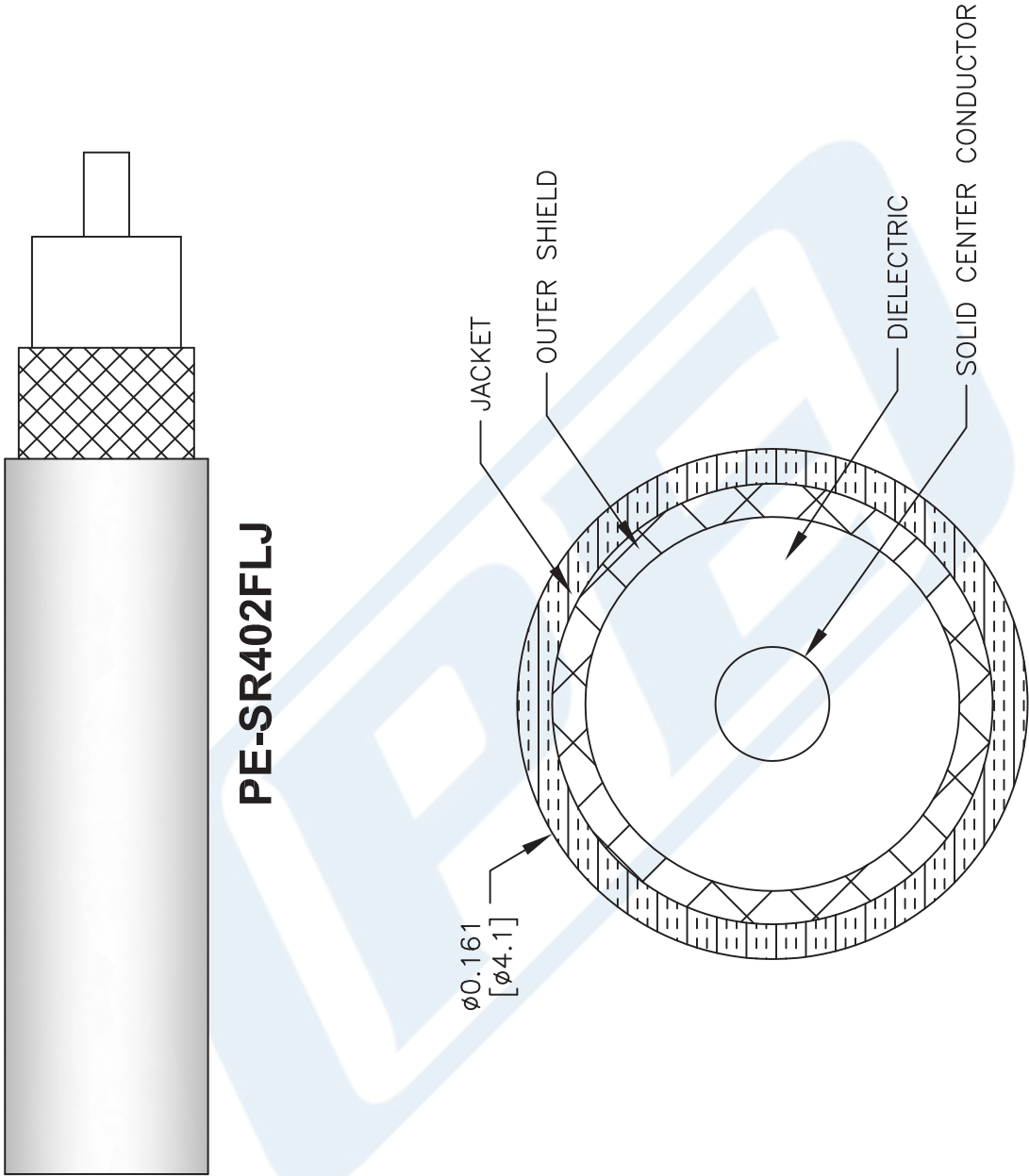
Formable 141 Semirigid Coax Cable with Tinned Braid Outer Conductor and Black FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the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

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](#)

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

SCALE N/A

SIZE A

41742



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