

## SMA Male Right Angle to N Female 4 Hole Flange Cable Using PE-SR402FL Coax



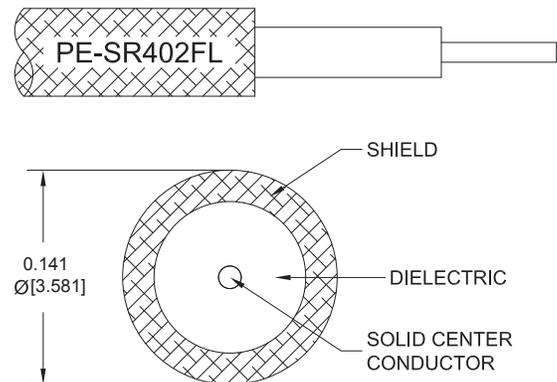
### PE3W15180

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: N Female 4 Hole Flange
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W15180 SMA male right angle to type N female 4 hole flange cable using PE-SR402FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMA to type N cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FL coax. The PE3W15180 SMA male to type N female cable assembly operates to 6 GHz. The right angle SMA interface on the PE-SR402FL cable allows for easier connections in tight spaces. Our RF cable assembly with type N 4 hole flange interface 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.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]

#### Specifications by Frequency

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**PE3W15180**

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	500	1000	2500	6000	
PE3W15180	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.184	0.322	dB/ft	
			0.27	0.4	0.61	1.06	dB/m	
PE3W15180-6	6 inch	Insertion Loss (Typ.)	0.34	0.36	0.4	0.47	dB	0.022
PE3W15180-9	9 inch	Insertion Loss (Typ.)	0.36	0.39	0.44	0.55	dB	0.03
PE3W15180-12	12 inch	Insertion Loss (Typ.)	0.38	0.42	0.49	0.63	dB	0.048
PE3W15180-18	18 inch	Insertion Loss (Typ.)	0.42	0.48	0.58	0.79	dB	0.065
PE3W15180-24	24 inch	Insertion Loss (Typ.)	0.46	0.54	0.67	0.95	dB	0.082

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB  
 Loss due to Connector 2: 0.2 dB  
 Base Weight: 0.043 pounds  
 Additional Weight per Inch: 0.00209 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.127 lbs [57.61 g]

**Cable**

Cable Type PE-SR402FL  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Outer Conductor 1 Material and Plating Tinned Copper Braid  
 Repeated Minimum Bend Radius 0.625 in [15.88 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	N Female 4 Hole Flange
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Bronze, Silver
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Brass, Tri-Metal
Body Plating Specification	30 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

#### Environmental Specifications

Operating Range Temperature -55 to +85 deg C

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

#### Plotted and Other Data

Notes:

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### PE3W15180

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W15180**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3W15180-12 = 12 inches long cable  
PE3W15180-100cm = 100 cm long cable

SMA Male Right Angle to N Female 4 Hole Flange Cable Using PE-SR402FL Coax 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 Right Angle to N Female 4 Hole Flange Cable Using PE-SR402FL Coax PE3W15180](https://www.pasternack.com/sma-male-right-angle-to-n-female-4-hole-flange-cable-using-pe-sr402fl-pe3w15180-p.aspx)

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The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3W15180 CAD Drawing

SMA Male Right Angle to N Female 4 Hole Flange Cable Using PE-SR402FL Coax

