



## SMA Female 2 Hole Flange to SMP Female Cable 36 Inch Length Using PE-047SR Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W05930-36**

#### Configuration

- Connector 1: SMA Female 2 Hole Flange
- Connector 2: SMP Female
- Cable Type: PE-047SR

#### Features

- Max Frequency 18 GHz

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05930-36 SMA female 2 hole flange to SMP female 36 inch cable using PE-047SR coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMA to SMP cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3W05930-36 SMA female to SMP female cable assembly operates to 18 GHz. Our RF cable assembly with SMA 2 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      |         | 18      | GHz   |
| VSWR            |         |         | 1.5:1   |       |

#### Specifications by Frequency

| Description           | F1    | F2  | F3   | F4  | F5    | Units |
|-----------------------|-------|-----|------|-----|-------|-------|
| Frequency             | 1     | 2   | 4.5  | 9   | 18    | GHz   |
| Insertion Loss (Max.) | 1.399 | 1.7 | 2.45 | 3.8 | 5.539 | dB    |

Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female 2 Hole Flange to SMP Female Cable 36 Inch Length Using PE-047SR Coax PE3W05930-36](#)



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The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length\* 36 in [914.4 mm]  
Diameter 0.223 in [5.66 mm]

##### Cable

Cable Type PE-047SR  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Outer Conductor Material and Plating Copper

Repeated Minimum Bend Radius 0.05 in [1.27 mm]

#### Connectors

| Description                           | Connector 1                        | Connector 2            |
|---------------------------------------|------------------------------------|------------------------|
| Type                                  | SMA Female 2 Hole Flange           | SMP Female             |
| Specification                         | MIL-STD-348                        | DESC 94008             |
| Impedance                             | 50 Ohms                            | 50 Ohms                |
| Contact Material and Plating          | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold |
| Contact Plating Specification         | MIL-G-45204                        | MIL-G-45204            |
| Dielectric Type                       | PTFE                               | PTFE                   |
| Outer Conductor Material and Plating  | Stainless Steel, Gold              |                        |
| Outer Conductor Plating Specification | MIL-G-45204                        |                        |
| Body Material and Plating             | Stainless Steel, Gold over Nickel  | Beryllium Copper, Gold |
| Body Plating Specification            | MIL-G-45204                        | MIL-G-45204            |

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

#### Environmental Specifications

##### Temperature

Operating Range -55 to +100 deg C

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**PE3W05930-36**

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

#### Plotted and Other Data

Notes:

#### How to Order

Part Number Configuration:

**PE3W05930**

- **xx**

**uu**

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

Example: PE3W05930-12 = 12 inches long cable  
PE3W05930-100cm = 100 cm long cable

SMA Female 2 Hole Flange to SMP Female Cable 36 Inch Length Using PE-047SR 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.

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URL: <https://www.pasternack.com/sma-female-smp-female-pe-047sr-cable-assembly-pe3w05930-36-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.

# PE3W05930-36 CAD Drawing

SMA Female 2 Hole Flange to SMP Female Cable 36 Inch Length Using PE-047SR Coax

