

Push-On SMP Female Right Angle to Push-On  
SMP Female Right Angle Cable 36 Inch Length  
Using RG316 Coax with 180 Deg. Clock



## RF Cable Assemblies Technical Data Sheet

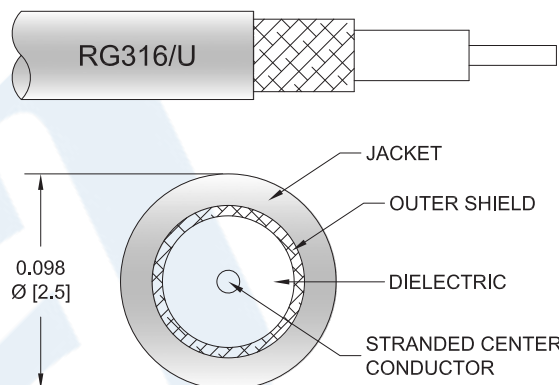
**PE3C3584/PH180-36**

### Configuration

- Connector 1: Push-OnSMP Female Right Angle
- Connector 2: Push-OnSMP Female Right Angle
- Cable Type: RG316

### Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3C3584/PH180-36 SMP female push-on right angle to SMP female push-on right angle 36 inch cable using RG316 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMP to SMP cable assembly has a female to female gender configuration with 50 ohm flexible RG316 coax. The PE3C3584/PH180-36 SMP female to SMP female cable assembly operates to 3 GHz. The right angle SMP interfaces on the RG316 cable allow for easier connections in tight spaces.

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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Push-On SMP Female Right Angle to Push-On SMP Female Right Angle Cable 36 Inch Length Using RG316 Coax with 180 Deg. Clock PE3C3584/PH180-36](#)

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### Electrical Specifications

| Description             | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|-------|
| Frequency Range         | DC      |         | 3       | GHz   |
| VSWR                    |         |         | 1.4:1   |       |
| Velocity of Propagation |         | 69      |         | %     |
| Operating Voltage (AC)  |         |         | 350     | Vrms  |
| Jacket Spark            |         |         | 2,000   | Vrms  |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 3    | GHz   |
| Insertion Loss (Max.) | 0.73 | 0.79 | 0.91 | 1.54 | 2.14 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 36 in [914.4 mm]   |
| Diameter | 0.157 in [3.99 mm] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG316                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 1                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.102 in [2.59 mm]         |

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### Connectors

| Description                           | Connector 1            | Connector 2            |
|---------------------------------------|------------------------|------------------------|
| Type                                  | SMP Female Right Angle | SMP Female Right Angle |
| Specification                         | MIL-STD-348A           | MIL-STD-348A           |
| Impedance                             | 50 Ohms                | 50 Ohms                |
| Connection Method                     | Push-On                | Push-On                |
| Contact Material and Plating          | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification         | 30μ in. minimum        | 30μ in. minimum        |
| Dielectric Type                       | Teflon                 | Teflon                 |
| Outer Conductor Material and Plating  | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Outer Conductor Plating Specification | 3μ in. minimum         | 3μ in. minimum         |
| Body Material and Plating             | Brass, Gold            | Brass, Gold            |
| Body Plating Specification            | 3μ in. minimum         | 3μ in. minimum         |

### Environmental Specifications

#### Temperature

Operating Range -55 to +165 deg C

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

### Plotted and Other Data

Notes:

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**PE3C3584/PH180-36**

### How to Order

Part Number Configuration:

**PE3C3584/PH180**

- **xx**

**uu**

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

Example: PE3C3584/PH180-12 = 12 inches long cable  
PE3C3584/PH180-100cm = 100 cm long cable

Push-On SMP Female Right Angle to Push-On SMP Female Right Angle Cable 36 Inch Length Using RG316 Coax with 180 Deg. Clock 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: [Push-On SMP Female Right Angle to Push-On SMP Female Right Angle Cable 36 Inch Length Using RG316 Coax with 180 Deg. Clock PE3C3584/PH180-36](#)

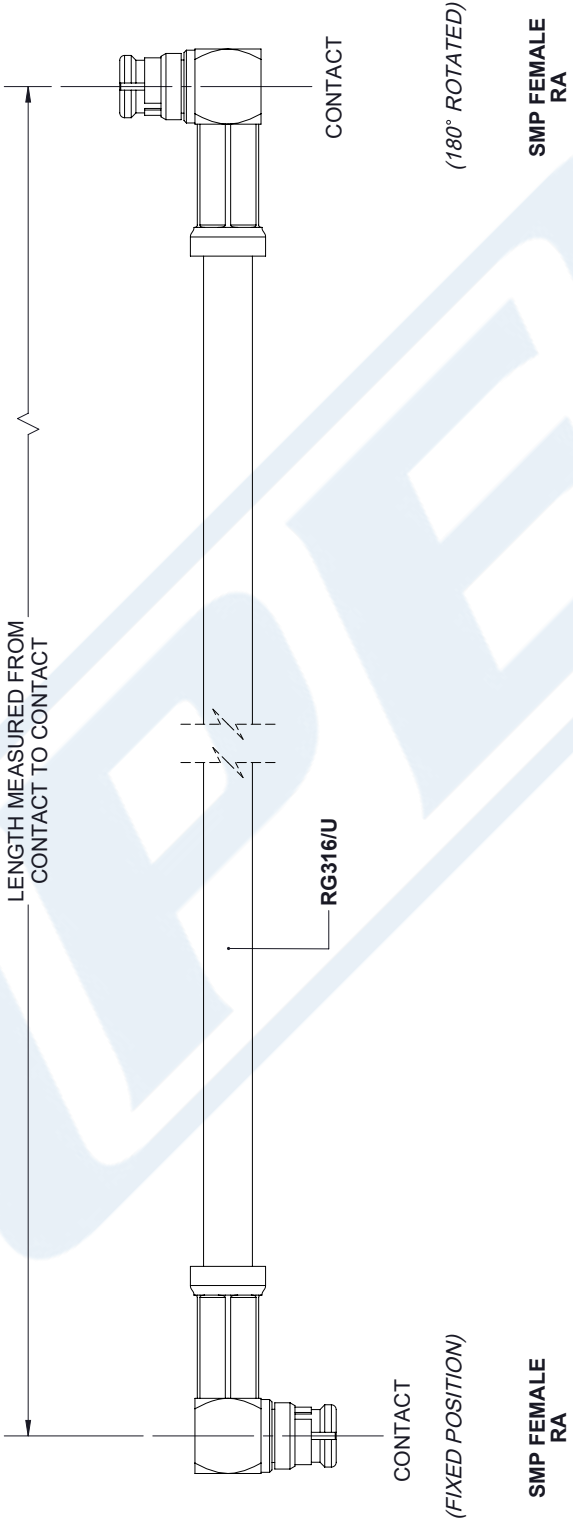
URL:

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PE3C3584/PH180-36 CAD Drawing

Push-On SMP Female Right Angle to Push-On SMP Female Right Angle  
Cable 36 Inch Length Using RG316 Coax with 180 Deg. Clock

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 8/25/2020 | S.ELLIS  |



|                                                                                                  |                   |
|--------------------------------------------------------------------------------------------------|-------------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |                   |
| TOLERANCES:                                                                                      |                   |
| .X = ± .2                                                                                        | [ .08 ]           |
| .XX = ± .02                                                                                      | [ .51 ]           |
| .XXX = ± .005                                                                                    | [ .13 ]           |
| ANGLES                                                                                           | ± 1°              |
| CABLE LENGTH (L) TOLERANCES:                                                                     |                   |
| L ≤ 12 [ 305 ]                                                                                   | = +1 [ 25 ] / -0  |
| 12 [ 305 ] < L ≤ 60 [ 1524 ]                                                                     | = +2 [ 51 ] / -0  |
| 60 [ 1524 ] < L ≤ 120 [ 3048 ]                                                                   | = +4 [ 102 ] / -0 |
| 120 [ 3048 ] < L ≤ 300 [ 7620 ]                                                                  | = +6 [ 152 ] / -0 |
| 300 [ 7620 ] < L                                                                                 | = +5%L / -0       |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |                   |

|                                                                                                                                                                                                  |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
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| SIZE                                                                                                                                                                                             | ITEM NO.       |
| A                                                                                                                                                                                                | PE3C3584/PH180 |
| CAGE CODE                                                                                                                                                                                        | REV            |
| 53919                                                                                                                                                                                            | A              |
| DRAWN BY                                                                                                                                                                                         |                |
| K.DANG                                                                                                                                                                                           |                |
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