



## SMA Male Right Angle to SMC Plug Right Angle Cable 200 CM Length Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

PE3740-200CM

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMC Plug Right Angle
- Cable Type: RG316

#### Features

- Max Frequency 3 GHz
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3740-200CM SMA male right angle to SMC plug right angle 200 cm 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 SMA to SMC cable assembly has a male to plug gender configuration with 50 ohm flexible RG316 coax. The PE3740-200CM SMA male to SMC plug cable assembly operates to 3 GHz. The right angle SMA and right angle SMC 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.

#### Electrical Specifications

| Description     | Minimum | Typical     | Maximum | Units        |
|-----------------|---------|-------------|---------|--------------|
| Frequency Range | DC      |             | 3       | GHz          |
| VSWR            |         |             | 1.5:1   |              |
| Capacitance     |         | 32 [104.99] |         | pF/ft [pF/m] |

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 SMC Plug Right Angle Cable 200 CM Length Using RG316 Coax PE3740-200CM](#)



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**Specifications by Frequency**

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 0.25  | 0.5   | 1     | 2.5   | 3     | GHz   |
| Insertion Loss (Max.) | 1.449 | 1.961 | 2.892 | 3.876 | 4.204 | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.4dB of connector loss.

**Mechanical Specifications**

**Cable Assembly**

|          |                     |
|----------|---------------------|
| Length*  | 78.74 in [200 cm]   |
| Diameter | 0.451 in [11.46 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                      | 0.098 in [2.49 mm]         |

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**Connectors**

| Description                        | Connector 1          | Connector 2            |
|------------------------------------|----------------------|------------------------|
| Type                               | SMA Male Right Angle | SMC Plug Right Angle   |
| Specification                      | MIL-STD-348A         | MIL-STD-348A           |
| Impedance                          | 50 Ohms              | 50 Ohms                |
| Contact Material and Plating       | Brass, Gold          | Beryllium Copper, Gold |
| Contact Plating Specification      | 50µ in. minimum      | 30µ in. minimum        |
| Dielectric Type                    | Teflon               | Teflon                 |
| Body Material and Plating          | Brass, Nickel        | Brass, Nickel          |
| Body Plating Specification         | 100µ in. minimum     | 100µ in. minimum       |
| Coupling Nut Material and Plating  |                      | Brass, Nickel          |
| Coupling Nut Plating Specification |                      | 100µ in. minimum       |
| Hex Size                           | 5/16 in              | 1/4 in.                |
| Torque                             | 5 in-lbs [0.57 Nm]   | 3 in-lbs [0.34 Nm]     |

Mechanical Specification Notes:

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

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

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

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 SMC Plug Right Angle Cable 200 CM Length Using RG316 Coax PE3740-200CM](#)

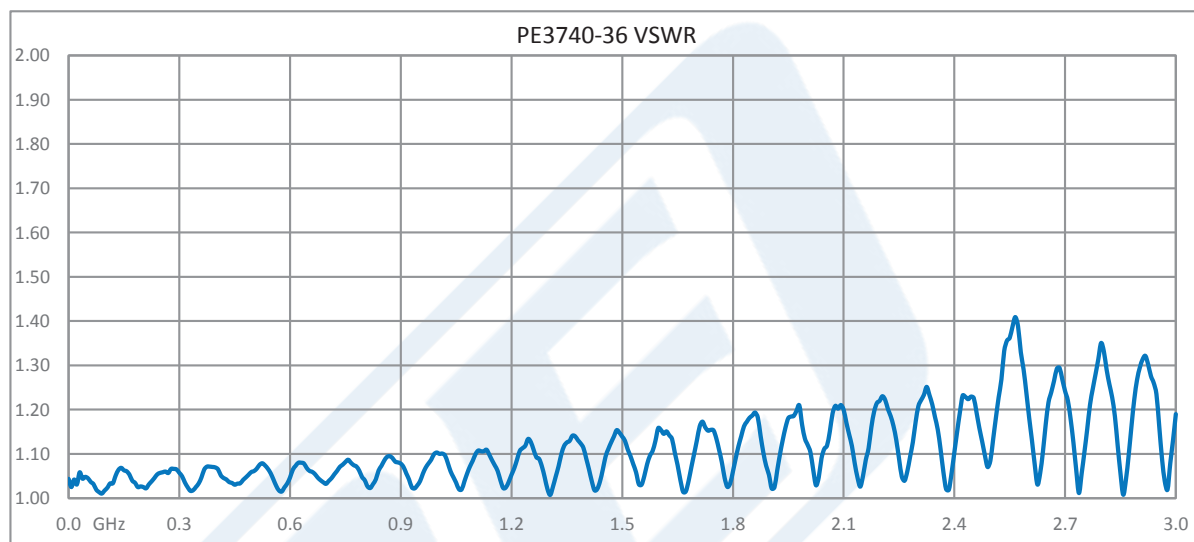


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### Typical Performance Data



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**How to Order**

Part Number Configuration:

**PE3740**

- **xx**

**uu**

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

Example: PE3740-12 = 12 inches long cable  
PE3740-100cm = 100 cm long cable

SMA Male Right Angle to SMC Plug Right Angle Cable 200 CM Length Using RG316 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.

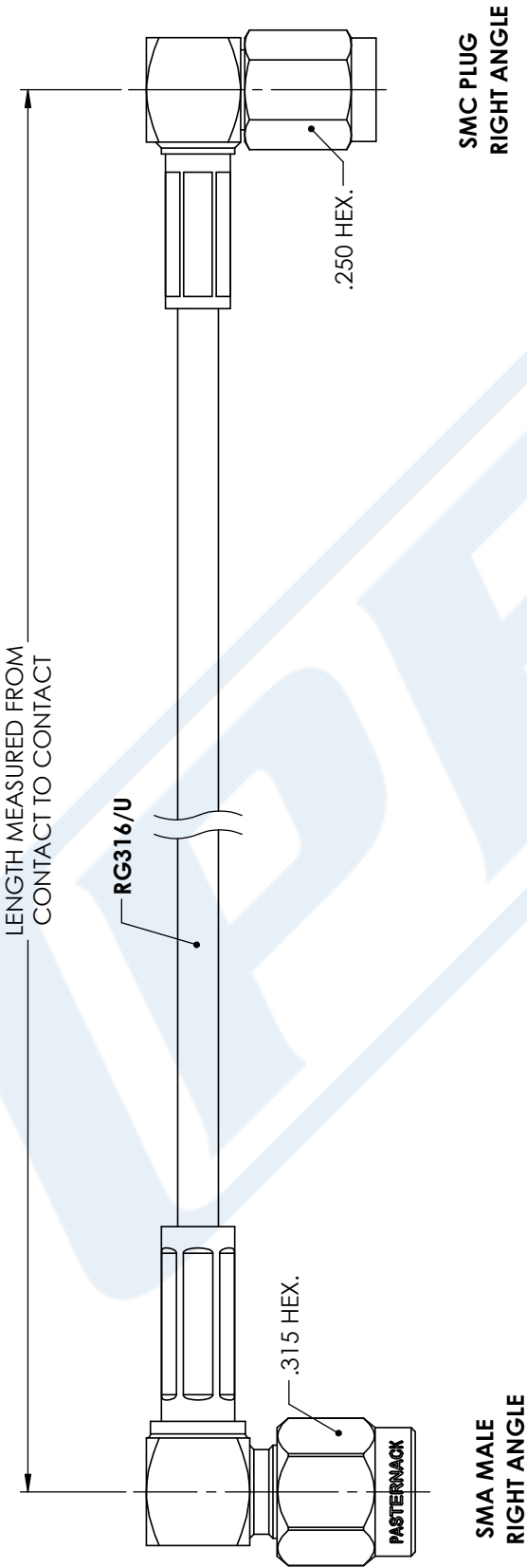
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMC Plug Right Angle Cable 200 CM Length Using RG316 Coax PE3740-200CM](https://www.pasternack.com/sma-male-smc-plug-rg316u-cable-assembly-pe3740-200cm-p.aspx)

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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.

PE3740-200CM CAD Drawing

SMA Male Right Angle to SMC Plug Right Angle Cable 200 CM Length Using RG316 Coax



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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THE ENGINEER'S RF SOURCE  
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DWG TITLE  
PE3740

CAGE CODE 53919

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].

CAD FILE 10/16/18

SCALE N/A

SIZE A

CN2245