

## MCX Plug Right Angle to SMP Plug Right Angle using RG316 Coax Cable

### PE3C9848

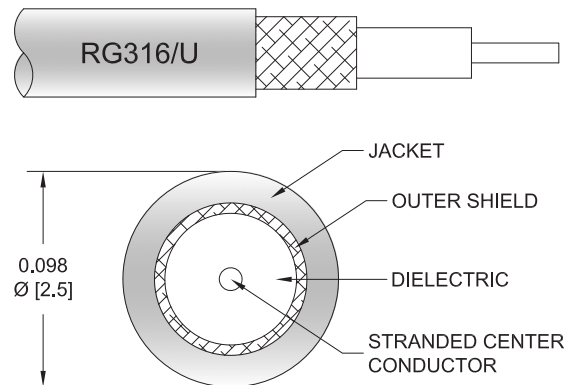


#### Configuration

- Connector 1: MCX Plug Right Angle
- Connector 2: SMP Plug Right Angle
- Cable Type: RG316

#### Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- VSWR of 1.4:1



#### Applications

- General Purpose
- Laboratory Use
- Military
- Aerospace
- Wireless Communications
- General Purpose Test

#### Description

Pasternack's PE3C9848 MCX plug right angle to SMP plug right angle cable using RG316 is part of our full line of RF components available for same-day shipping. This Pasternack MCX to SMP cable assembly has a plug to plug gender configuration with 50 ohm RG316. The PE3C9848 MCX plug to SMP plug cable assembly operates to 3 GHz. The right angle MCX and 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.

#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 3       | GHz          |
| VSWR                    |         |              | 1.4:1   |              |
| Velocity of Propagation |         | 69           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3    | F4   | F5   | Units |
|-----------------------|------|------|-------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5   | 1    | 3    | GHz   |
| Insertion Loss (Typ.) | 0.11 | 0.16 | 0.238 | 0.38 | 0.58 | dB/ft |
|                       | 0.36 | 0.52 | 0.78  | 1.25 | 1.9  | dB/m  |

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#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector

#### Mechanical Specifications

##### Cable Assembly

|                |                    |
|----------------|--------------------|
| Width/Diameter | 0.5 in [12.7 mm]   |
| Weight         | 0.03 lbs [13.61 g] |

##### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG316                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Stranded                  |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |

#### Connectors

| Description                  | Connector 1                   | Connector 2                        |
|------------------------------|-------------------------------|------------------------------------|
| Type                         | MCX Plug Right Angle          | SMP Plug Right Angle               |
| Impedance                    | 50 Ohms                       | 50 Ohms                            |
| Configuration                | Right Angle                   | Right Angle                        |
| Contact Material and Plating | Bronze, Gold over Copper      | Beryllium Copper, Gold over Copper |
| Body Material and Plating    | Bronze, Copper-Tin-Zinc Alloy | Bronze, Copper-Tin-Zinc Alloy      |

#### Environmental Specifications

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

#### Plotted and Other Data

##### Notes:

Values at 25°C, sea level.

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#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C9848**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C9848-12 = 12 inches long cable  
PE3C9848-100cm = 100 cm long cable

MCX Plug Right Angle to SMP Plug Right Angle using RG316 Coax Cable 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: [MCX Plug Right Angle to SMP Plug Right Angle using RG316 Coax Cable PE3C9848](#)

URL: <https://www.pasternack.com/mcx-plug-right-angle-to-smp-plug-non-magnetic-cable-using-rg316-pe3c9848-p.aspx>

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.

PE3C9848 CAD Drawing
MCX Plug Right Angle to SMP Plug Right Angle using RG316 Coax Cable

