

## MMCX Plug Right Angle to SMA Male Cable Using RG316 Coax

### PE3C5530

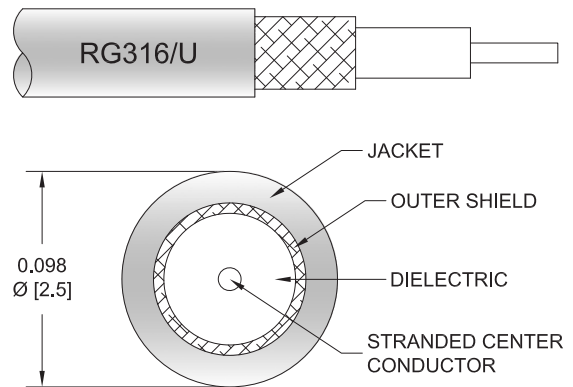


#### Configuration

- Connector 1: MMCX Plug Right Angle
- Connector 2: SMA Male
- Cable Type: RG316
- Coax Flex Type: Flexible

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C5530 MMCX plug right angle to SMA male 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 MMCX to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible RG316 coax. The PE3C5530 MMCX plug to SMA male cable assembly operates to 3 GHz. The right angle MMCX interface on the RG316 cable allows 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] |
| Operating Voltage (AC)  |         |              | 250     | Vrms         |
| Jacket Spark            |         |              | 2,000   | Vrms         |

#### Specifications by Frequency

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| Part Number | Length                   | Description           | F1   | F2   | F3   | F4   | F5   | Units | Weight (lbs) |
|-------------|--------------------------|-----------------------|------|------|------|------|------|-------|--------------|
|             |                          | Frequency             | 100  | 250  | 500  | 1000 | 3000 | MHz   |              |
| PE3C5530    | Custom Lengths Available | Insertion Loss (Typ.) | 0.11 | 0.16 | 0.24 | 0.38 | 0.58 | dB/ft |              |
|             |                          |                       | 0.37 | 0.53 | 0.79 | 1.25 | 1.91 | dB/m  |              |
| PE3C5530-12 | 12 inch                  | Insertion Loss (Typ.) | 0.41 | 0.46 | 0.54 | 0.68 | 0.88 | dB    | 0.03         |
| PE3C5530-24 | 24 inch                  | Insertion Loss (Typ.) | 0.52 | 0.62 | 0.78 | 1.06 | 1.46 | dB    | 0.041        |
| PE3C5530-36 | 36 inch                  | Insertion Loss (Typ.) | 0.63 | 0.78 | 1.02 | 1.44 | 2.04 | dB    | 0.051        |
| PE3C5530-48 | 48 inch                  | Insertion Loss (Typ.) | 0.74 | 0.94 | 1.26 | 1.82 | 2.62 | dB    | 0.061        |
| PE3C5530-72 | 72 inch                  | Insertion Loss (Typ.) | 0.96 | 1.26 | 1.73 | 2.58 | 3.78 | dB    | 0.081        |

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:    | 0.2 dB         |
| Loss due to Connector 2:    | 0.1 dB         |
| Base Weight:                | 0.03 pounds    |
| Additional Weight per Inch: | 0.00084 pounds |

## 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                       |
| 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                               | MMCX Plug Right Angle | SMA Male         |
| Specification                      | BS EN 122340          | MIL-STD-348A     |
| Impedance                          | 50 Ohms               | 50 Ohms          |
| Configuration                      | Right Angle           | Straight         |
| Contact Material and Plating       | Brass, Gold           | Brass, Gold      |
| Contact Plating Specification      | 30 µin minimum        | 30 µin minimum   |
| Dielectric Type                    | PTFE                  | PTFE             |
| Body Material and Plating          | Brass, Gold           | Brass, Nickel    |
| Body Plating Specification         | 3 µin minimum         | 100 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 -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

## MMCX Plug Right Angle to SMA Male Cable Using RG316 Coax



### PE3C5530

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C5530**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C5530-12 = 12 inches long cable  
PE3C5530-100cm = 100 cm long cable

MMCX Plug Right Angle to SMA Male Cable 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: [MMCX Plug Right Angle to SMA Male Cable Using RG316 Coax PE3C5530](#)

URL: <https://www.pasternack.com/mmcx-plug-right-angle-to-sma-male-cable-using-rg316-pe3c5530-p.aspx>

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