

## SMA Male to MMCX Plug Right Angle Cable Using RG316-DS Coax with HeatShrink



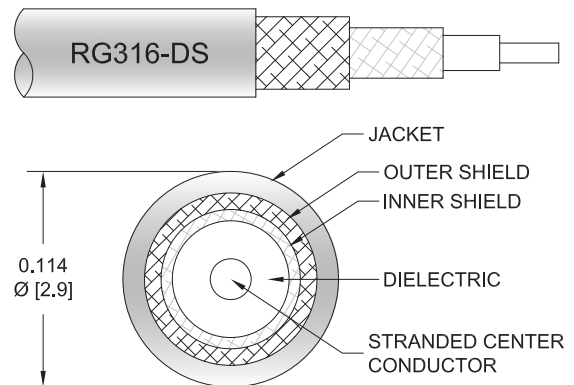
### PE3C0029/HS

#### Configuration

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

#### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C0029/HS SMA male to MMCX plug right angle cable using RG316-DS 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 MMCX cable assembly has a male to plug gender configuration with 50 ohm flexible RG316-DS coax. The PE3C0029/HS SMA male to MMCX plug cable assembly operates to 3 GHz. The right angle MMCX interface on the RG316-DS cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

#### Specifications by Frequency

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**PE3C0029/HS**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3C0029/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.13	0.19	0.29	0.536	dB/ft	
			0.28	0.43	0.64	0.96	1.76	dB/m	
PE3C0029/HS-6	6 inch	Insertion Loss (Typ.)	0.35	0.37	0.4	0.45	0.57	dB	0.026
PE3C0029/HS-12	12 inch	Insertion Loss (Typ.)	0.39	0.43	0.5	0.59	0.84	dB	0.033
PE3C0029/HS-24	24 inch	Insertion Loss (Typ.)	0.47	0.56	0.69	0.88	1.38	dB	0.048
PE3C0029/HS-36	36 inch	Insertion Loss (Typ.)	0.55	0.69	0.89	1.17	1.91	dB	0.062
PE3C0029/HS-48	48 inch	Insertion Loss (Typ.)	0.64	0.82	1.08	1.46	2.45	dB	0.076

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: 0.1 dB  
 Loss due to Connector 2: 0.2 dB  
 Base Weight: 0.033 pounds  
 Additional Weight per Inch: 0.00117 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter: 0.5 in [12.7 mm]  
 Weight: 0.034 lbs [15.42 g]

**Cable**

Cable Type: RG316-DS  
 Impedance: 50 Ohms  
 Inner Conductor Type: Stranded  
 Inner Conductor Material and Plating: Copper Clad Steel, Silver  
 Dielectric Type: PTFE  
 Number of Shields: 2  
 Shield Layer 1: Silver Plated Copper Braid  
 Shield Layer 2: Silver Plated Copper Braid  
 Jacket Material: FEP, Tan  
 Jacket Diameter: 0.114 in [2.9 mm]  
 One Time Minimum Bend Radius: 0.59 in [14.99 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	MMCX Plug Right Angle
Specification	MIL-STD-348A	BS EN 122340
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30μ in. minimum	30μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100μ in. minimum	3μ in. minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100μ in. minimum	
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

**Environmental Specifications**

Operating Range Temperature -55 to +155 deg C

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

**Plotted and Other Data**

Notes:

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### PE3C0029/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C0029/HS - xx uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE3C0029/HS-12 = 12 inches long cable  
PE3C0029/HS-100cm = 100 cm long cable

SMA Male to MMCX Plug Right Angle Cable Using RG316-DS Coax with HeatShrink 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 to MMCX Plug Right Angle Cable Using RG316-DS Coax with HeatShrink PE3C0029/HS](https://www.pasternack.com/sma-male-to-mmcx-plug-right-angle-cable-using-rg316-ds-coax-with-heatshrink-pe3c0029-hs)

URL: <https://www.pasternack.com/sma-male-to-mmcx-plug-cable-using-rg316-ds-with-heatshrink-pe3c0029-hs-p.aspx>

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# PE3C0029/HS CAD Drawing

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