

## SMA Male Right Angle to MCX Plug Right Angle Cable Using RG188-DS Coax



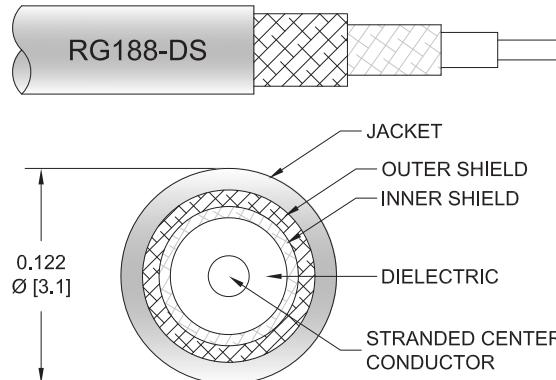
### PE3W01415

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: MCX Plug Right Angle
- Cable Type: RG188-DS
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- Double Shielded
- PTFE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01415 SMA male right angle to MCX plug right angle cable using RG188-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 MCX cable assembly has a male to plug gender configuration with 50 ohm flexible RG188-DS coax. The PE3W01415 SMA male to MCX plug cable assembly operates to 3 GHz. The right angle SMA and right angle MCX interfaces on the RG188-DS cable allow 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	
Capacitance	32 [104.99]			pF/ft [pF/m]

#### Specifications by Frequency

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### PE3W01415

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3W01415	Custom Lengths Available	Insertion Loss (Typ.)	0.115 0.38	0.146 0.48	0.197 0.65	0.3 0.99	0.453 1.49	dB/ft dB/m	
PE3W01415-12	12 inch	Insertion Loss (Typ.)	0.52	0.55	0.6	0.7	0.86	dB	0.038
PE3W01415-24	24 inch	Insertion Loss (Typ.)	0.63	0.7	0.8	1	1.31	dB	0.053
PE3W01415-36	36 inch	Insertion Loss (Typ.)	0.75	0.84	1	1.3	1.76	dB	0.068
PE3W01415-48	48 inch	Insertion Loss (Typ.)	0.86	0.99	1.19	1.6	2.22	dB	0.083
PE3W01415-60	60 inch	Insertion Loss (Typ.)	0.98	1.13	1.39	1.9	2.67	dB	0.098

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: 0.2 dB  
Base Weight: 0.038 pounds  
Additional Weight per Inch: 0.00125 pounds

### Mechanical Specifications

#### Cable Assembly

Weight 0.038 lbs [17.24 g]

#### Cable

Cable Type RG188-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 PTFE, White  
Jacket Diameter 0.122 in [3.1 mm]

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### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	MCX Plug Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	50 $\mu$ in minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 $\mu$ in minimum	
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

### Environmental Specifications

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

### Plotted and Other Data

Notes:

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### PE3W01415

#### Typical Performance Data

#### How to Order

Part Number Configuration:

PE3W01415 - xx uu

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

Length

Base Number

Example: PE3W01415-12 = 12 inches long cable  
PE3W01415-100cm = 100 cm long cable

SMA Male Right Angle to MCX Plug Right Angle Cable Using RG188-DS 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 MCX Plug Right Angle Cable Using RG188-DS Coax PE3W01415](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-mcx-plug-cable-using-rg188-ds-pe3w01415-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.

# PE3W01415 CAD Drawing

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