



MMCX Plug Right Angle to SMC Plug Right Angle Cable Using RG188 Coax

RF Cable Assemblies Technical Data Sheet

PE3W09431

Configuration

- Connector 1: MMCX Plug Right Angle
- Connector 2: SMC Plug Right Angle
- Cable Type: RG188

Features

- Max Frequency 3 GHz
- PTFE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09431 MMCX plug right angle to SMC plug right angle cable using RG188 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 SMC cable assembly has a plug to plug gender configuration with 50 ohm flexible RG188 coax. The PE3W09431 MMCX plug to SMC plug cable assembly operates to 3 GHz. The right angle MMCX and right angle SMC interfaces on the RG188 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	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.05	0.125	0.25	0.5	1.5	dB/ft
	0.16	0.41	0.82	1.64	4.92	dB/m

Electrical Specification Notes:

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

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 SMC Plug Right Angle Cable Using RG188 Coax PE3W09431](#)



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Mechanical Specifications

Cable Assembly

Weight 0.031 lbs [14.06 g]

Cable

Cable Type RG188
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 PTFE, White
Jacket Diameter 0.11 in [2.79 mm]

Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug Right Angle	SMC Plug Right Angle
Specification	BS EN 122340	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, 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		4-Jan inch
Torque		3 in-lbs [0.34 Nm]

Environmental Specifications

Temperature

Operating Range -55 to +155 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W09431

- **xx**

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

Example: PE3W09431-12 = 12 inches long cable
PE3W09431-100cm = 100 cm long cable

MMCX Plug Right Angle to SMC Plug Right Angle Cable Using RG188 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 SMC Plug Right Angle Cable Using RG188 Coax PE3W09431](https://www.pasternack.com/mmcx-plug-right-angle-to-smc-plug-right-angle-cable-using-rg188-pe3w09431-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.

