



PE3W07894

RF Cable Assemblies Technical Data Sheet

Configuration Connector 1: MMCX Plug Right Angle Connector 2: SMA Male Right Angle RG316/U Cable Type: RG316 Features JACKET • Max Frequency 3 GHz OUTER SHIELD 69% Phase Velocity FEP Jacket 0.098 DIELECTRIC Ø [2.5] STRANDED CENTER CONDUCTOR **Applications** General Purpose Laboratory Use

Description

Pasternack's PE3W07894 MMCX plug right angle to SMA male right angle 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 PE3W07894 MMCX plug to SMA male cable assembly operates to 3 GHz. The right angle MMCX and right angle SMA 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.

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 Right Angle Cable Using RG316 Coax PE3W07894

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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Electrical Specifications

Minimum	Typical	Maximum	Units
DC		3	GHz
		1.4:1	
	69		%
	29.4 [96.46]		pF/ft [pF/m]
		250	Vrms
		2,000	Vrms
		DC 69	DC 3 1.4:1 69 29.4 [96.46] 250

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.111	0.16	0.239	0.38	0.58	dB/ft
	0.36	0.52	0.78	1.25	1.9	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per MMCX plug right angle connector and 0.2 dB per SMA male right angle connector.

Mechanical Specifications

Cable Assembly Diameter

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Jacket Material Jacket Diameter 0.312 in [7.92 mm]

RG316 50 Ohms Stranded Copper Clad Steel, Silver PTFE 1 Silver Plated Copper Braid FEP, Tan 0.102 in [2.59 mm]

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Connectors

Description	Connector 1	Connector 2	
Туре	MMCX Plug Right Angle	SMA Male Right Angle	
Specification	BS EN 122340	MIL-C-39012	
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material and Plating	Brass, Gold	Brass, Gold over Nickel	
Contact Plating Specification	30 µin minimum	30 µin minimum	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Gold	Brass, Gold	
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

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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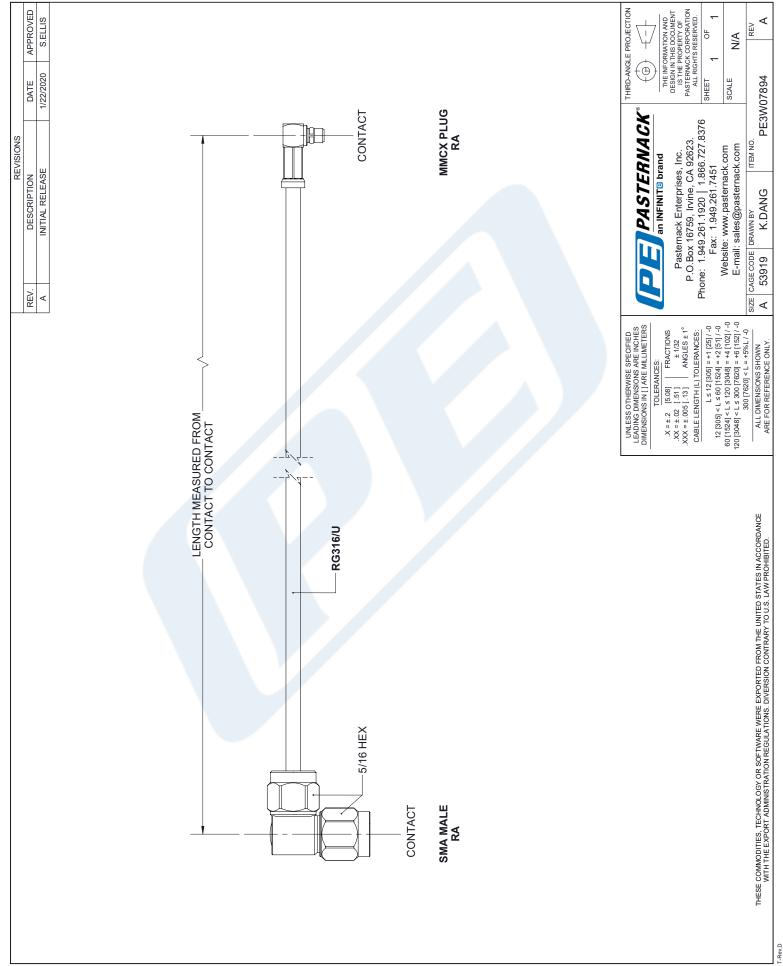
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How to Order PE3W07894 Part Number Configuration: - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE3W07894-12 = 12 inches long cable PE3W07894-100cm = 100 cm long cable MMCX Plug Right Angle to SMA Male Right Angle 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 Right Angle Cable Using RG316 Coax PE3W07894 URL: https://www.pasternack.com/mmcx-plug-sma-male-rg316u-cable-assembly-pe3w07894-p.aspx 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.

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PE3W07894 CAD Drawing MMCX Plug Right Angle to SMA Male Right Angle Cable Using RG316 Coax



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