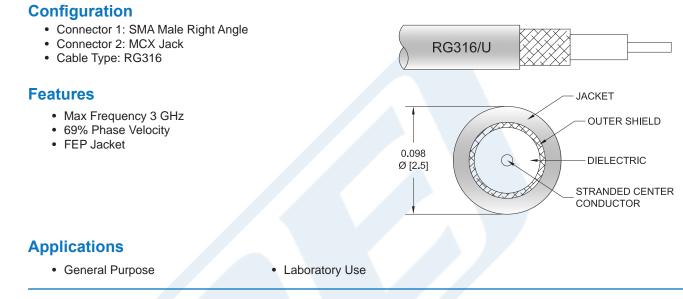






RF Cable Assemblies Technical Data Sheet

PE3W02744



Description

Pasternack's PE3W02744 SMA male right angle to MCX jack 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 SMA to MCX cable assembly has a male to jack gender configuration with 50 ohm flexible RG316 coax. The PE3W02744 SMA male to MCX jack cable assembly operates to 3 GHz. The right angle SMA 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			1.5:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.41 [27.59]		Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

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 Jack Cable Using RG316 Coax PE3W02744

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

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0.05

0.075

0.25

RF Cable Assemblies Technical Data Sheet

Specifications by Frequency F4 **F1 F2** F3 0.1 0.4 1

0.11

0.36

Electrical Specification Notes:

Description

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1dB per connector.

0.21

0.69

Mechanical Specifications

Cable Assembly Diameter

Cable

Frequency

Insertion Loss (Max.)

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating **Dielectric Type** Number of Shields Shield Layer 1 Jacket Material Jacket Diameter

0.315 in [8 mm]

0.38

1.25

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

F5

3

0.58

1.9

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Units

GHz

dB/ft

dB/m

PE3W02744





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IRNA SI

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male Right Angle	MCX Jack	
Specification	MIL-STD-348A	MIL-C-39012	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Gold	
Contact Plating Specification	50 µin minimum	MIL-G-45204	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100 µin minimum	QQ-N-290	
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]		

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8$ ", whichever is greater.

Environmental Specifications

Temperature Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

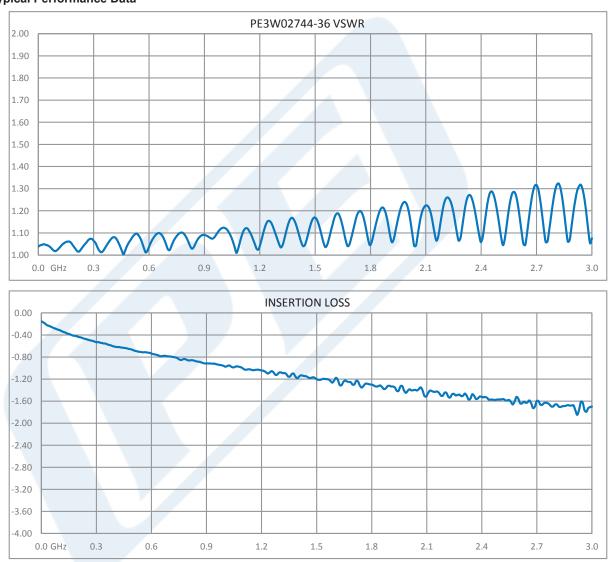
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RF Cable Assemblies Technical Data Sheet



Typical Performance Data

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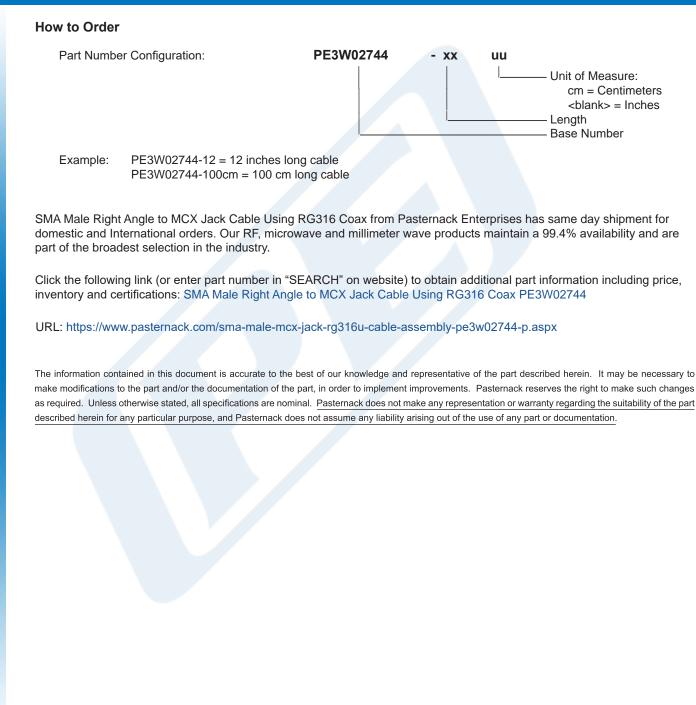




SMA Male Right Angle to MCX Jack Cable Using RG316 Coax

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PE3W02744 CAD Drawing SMA Male Right Angle to MCX Jack Cable Using RG316 Coax

