

SMA Male to MCX Plug Right Angle Cable Using RG174 Coax



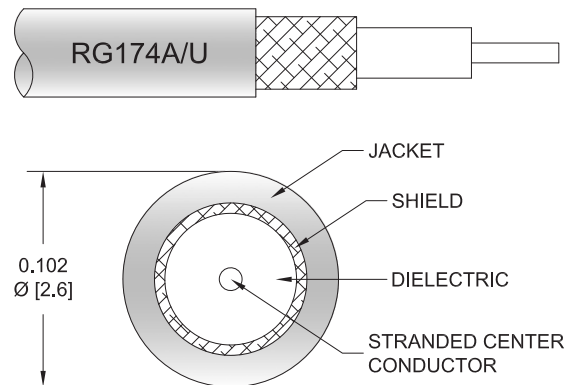
PE3W07712

Configuration

- Connector 1: SMA Male
- Connector 2: MCX Plug Right Angle
- Cable Type: RG174
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W07712 SMA male to MCX plug right angle cable using RG174 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 RG174 coax. The PE3W07712 SMA male to MCX plug cable assembly operates to 1 GHz. The right angle MCX interface on the RG174 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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	100	250	500	1000	
PE3W07712	Custom Lengths Available	Insertion Loss (Typ.)	0.084	0.137	0.211	0.32	dB/ft	
			0.28	0.45	0.7	1.05	dB/m	
PE3W07712-12	12 Inch	Insertion Loss (Typ.)	0.54	0.59	0.67	0.77	dB	0.028
PE3W07712-24	24 Inch	Insertion Loss (Typ.)	0.62	0.73	0.88	1.09	dB	0.037
PE3W07712-36	36 Inch	Insertion Loss (Typ.)	0.71	0.87	1.09	1.41	dB	0.046
PE3W07712-48	48 Inch	Insertion Loss (Typ.)	0.79	1	1.3	1.73	dB	0.055
PE3W07712-72	72 Inch	Insertion Loss (Typ.)	0.96	1.28	1.72	2.37	dB	0.073

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:	0.25 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.028 pounds
Additional Weight per Inch:	0.07833 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.028 lbs [12.7 g]

Cable

Cable Type	RG174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	MCX Plug Right Angle
Specification		CECC 22220
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	15 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	200 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	200 µin minimum	

Environmental Specifications

Operating Range Temperature -40 to +60 deg C

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

Plotted and Other Data

Notes:

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PE3W07712

Typical Performance Data

How to Order

Part Number Configuration:

PE3W07712

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W07712-12 = 12 inches long cable
PE3W07712-100cm = 100 cm long cable

SMA Male to MCX Plug Right Angle Cable Using RG174 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 to MCX Plug Right Angle Cable Using RG174 Coax PE3W07712](#)

URL: <https://www.pasternack.com/sma-male-to-mcx-plug-cable-using-rg174-pe3w07712-p.aspx>

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PE3W07712 CAD Drawing

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