



SMA Male to MCX Plug Cable Using RG174 Coax

RF Cable Assemblies Technical Data Sheet

PE3W07452

Configuration

- Connector 1: SMA Male
- Connector 2: MCX Plug
- Cable Type: RG174

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W07452 SMA male to MCX plug 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 PE3W07452 SMA male to MCX plug cable assembly operates to 1 GHz.

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: [SMA Male to MCX Plug Cable Using RG174 Coax PE3W07452](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.45:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Max.)	0.08	0.12	0.19	0.32		dB/ft
	0.26	0.39	0.62	1.05		dB/m

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Diameter 0.312 in [7.92 mm]

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
Specification		CECC 22220
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		30 µin minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Stainless Steel	Brass, Nickel
Body Plating Specification		100 µin minimum
Coupling Nut Material and Plating	Stainless Steel	

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W07452

- **xx**

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

Example: PE3W07452-12 = 12 inches long cable
PE3W07452-100cm = 100 cm long cable

SMA Male to MCX Plug 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 Cable Using RG174 Coax PE3W07452](https://www.pasternack.com/sma-male-mcx-plug-rg174au-cable-assembly-pe3w07452-p.aspx)

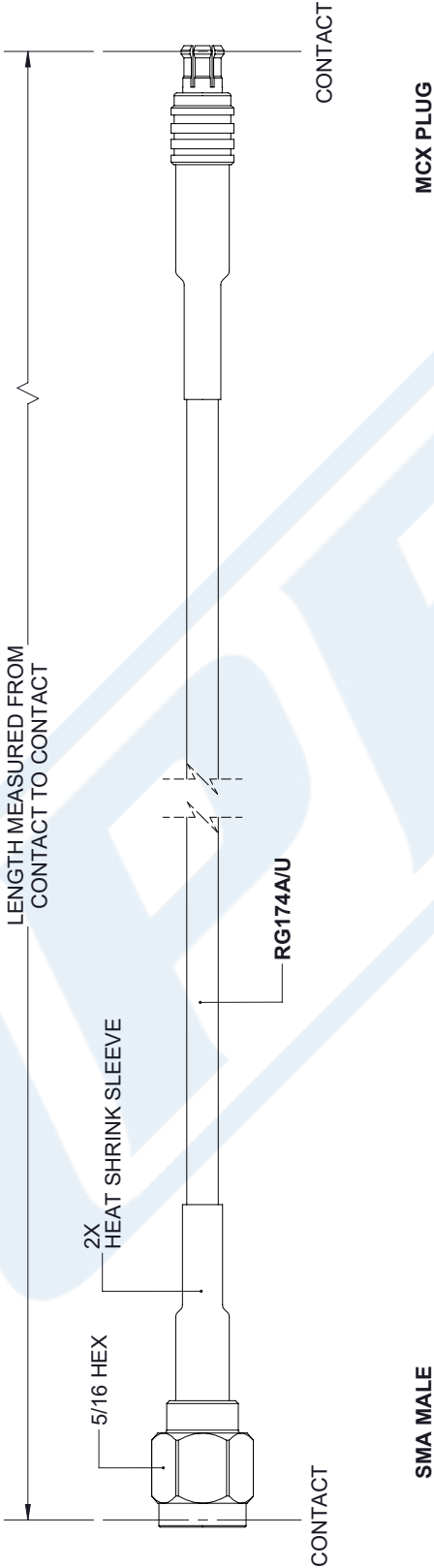
URL: <https://www.pasternack.com/sma-male-mcx-plug-rg174au-cable-assembly-pe3w07452-p.aspx>

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.

PE3W07452 CAD Drawing

SMA Male to MCX Plug Cable Using RG174 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/25/2020	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
.X = ± .2	[5.08]
.XX = ± .02	[.51]
.XXX = ± .005	[.13]
ANGLES	± 1°
CABLE LENGTH (L)	TOLERANCES:
12 [305]	L ≤ 60 [1524] = +1 [25] / -0
60 [1524]	L ≤ 120 [3048] = +4 [102] / -0
120 [3048]	L ≤ 300 [7620] = +6 [152] / -0
300 [7620]	L ≤ 300 [7620] = +5% L / -0
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

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SIZE	CAGE CODE
A	53919
DRAWN BY	K.DANG
ITEM NO.	PE3W07452

THIRD-ANGLE PROJECTION	
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SHEET	1 OF 1
SCALE	N/A
REV	A

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