

SMA Male to MCX Plug Right Angle Cable Using RG178 Coax with HeatShrink



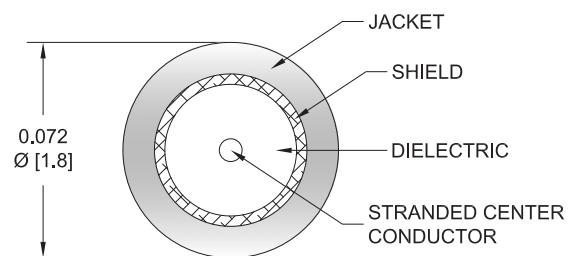
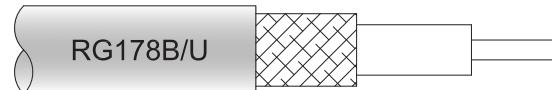
PE3C100020/HS

Configuration

- Connector 1: SMA Male
- Connector 2: MCX Plug Right Angle
- Cable Type: RG178
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C100020/HS SMA male to MCX plug right angle cable using RG178 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 RG178 coax. The PE3C100020/HS SMA male to MCX plug cable assembly operates to 1 GHz. The right angle MCX interface on the RG178 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	GHz
VSWR			1.5:1	
Velocity of Propagation	70			%
Operating Voltage (AC)			170	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	50	100	250	500	1000	MHz	
PE3C100020/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.01	0.14	0.21	0.31	0.444	dB/ft	
			0.03	0.46	0.69	1.01	1.46	dB/m	
PE3C100020/HS-6	6 inch	Insertion Loss (Typ.)	0.61	0.67	0.71	0.76	0.83	dB	0.024
PE3C100020/HS-9	9 inch	Insertion Loss (Typ.)	0.61	0.71	0.76	0.83	0.94	dB	0.025
PE3C100020/HS-12	12 inch	Insertion Loss (Typ.)	0.61	0.74	0.81	0.91	1.05	dB	0.026
PE3C100020/HS-24	24 inch	Insertion Loss (Typ.)	0.62	0.88	1.02	1.22	1.49	dB	0.032
PE3C100020/HS-36	36 inch	Insertion Loss (Typ.)	0.63	1.02	1.23	1.52	1.94	dB	0.037

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: 0.1 dB
 Loss due to Connector 2: 0.5 dB
 Base Weight: 0.024 pounds
 Additional Weight per Inch: 0.00042 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.02599 lbs [11.79 g]

Cable

Cable Type	RG178
Impedance	50 Ohms
Inner Conductor Type	Solid
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	FEP, Black
Jacket Diameter	0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	MCX Plug Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Bronze, Gold over Copper
Contact Plating Specification	50 μ in minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Bronze, Copper-Tin-Zinc Alloy
Body Plating Specification	100 μ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 μ in minimum	

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

Compliance Certifications

(see product page for current document)

Plotted and Other Data

Notes:

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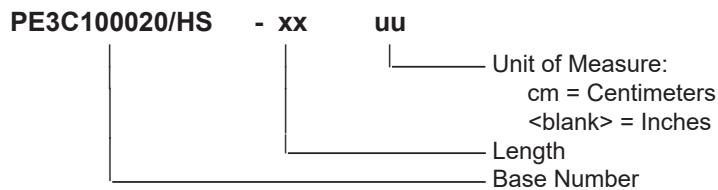


PE3C100020/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C100020/HS-12 = 12 inches long cable
PE3C100020/HS-100cm = 100 cm long cable

SMA Male to MCX Plug Right Angle Cable Using RG178 Coax with HeatShrink 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 RG178 Coax with HeatShrink PE3C100020/HS](#)

URL: <https://www.pasternack.com/sma-male-to-mcx-plug-cable-using-rg178-with-heatshrink-pe3c100020-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C100020/HS CAD Drawing

SMA Male to MCX Plug Right Angle Cable Using RG178 Coax with HeatShrink

