

## MCX Plug to SSMB Plug Low Loss Cable Using LMR-100 Coax with HeatShrink



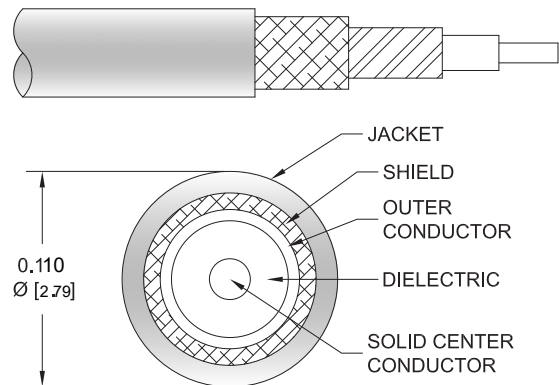
### PE3C9874/HS

#### Configuration

- Connector 1: MCX Plug
- Connector 2: SSMB Plug
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C9874/HS MCX plug to SSMB plug cable using LMR-100 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 MCX to SSMB cable assembly has a plug to plug gender configuration with 50 ohm flexible LMR-100A coax. The PE3C9874/HS MCX plug to SSMB plug cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3C9874/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.064	0.115	0.165	0.24	0.432	dB/ft	
			0.21	0.38	0.55	0.79	1.42	dB/m	
PE3C9874/HS-24	24 In	Insertion Loss (Typ.)	0.33	0.43	0.53	0.68	1.07	dB	0.035
PE3C9874/HS-36	36 In	Insertion Loss (Typ.)	0.4	0.55	0.7	0.92	1.5	dB	0.044
PE3C9874/HS-48	48 In	Insertion Loss (Typ.)	0.46	0.66	0.86	1.16	1.93	dB	0.053
PE3C9874/HS-100CM	100 CM	Insertion Loss (Typ.)	0.41	0.58	0.75	0.99	1.62	dB	0.047
PE3C9874/HS-200CM	200 CM	Insertion Loss (Typ.)	0.62	0.96	1.29	1.78	3.04	dB	0.077

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:	0.1 dB
Base Weight:	0.026 pounds
Additional Weight per Inch:	0.00075 pounds

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.017 lbs [7.71 g]

##### Cable

Cable Type	LMR-100A
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

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### PE3C9874/HS

#### Connectors

Description	Connector 1	Connector 2
Type	MCX Plug	SSMB Plug
Specification	CECC 22220	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		30 µin minimum
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 µin minimum	30 µin minimum

#### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

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### PE3C9874/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C9874/HS**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE3C9874/HS-12 = 12 inches long cable  
PE3C9874/HS-100cm = 100 cm long cable

MCX Plug to SSMB Plug Low Loss Cable Using LMR-100 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: [MCX Plug to SSMB Plug Low Loss Cable Using LMR-100 Coax with HeatShrink PE3C9874/HS](#)

URL: <https://www.pasternack.com/mcx-plug-to-ssmb-plug-low-loss-cable-using-lmr-100-with-heatshrink-pe3c9874-hs-p.aspx>

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PE3C9874/HS CAD Drawing
MCX Plug to SSMB Plug Low Loss Cable Using LMR-100 Coax with HeatShrink

