



### **TECHNICAL DATA SHEET**

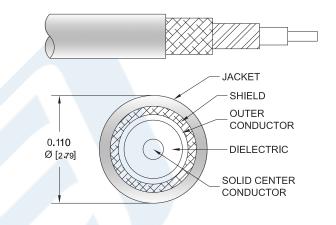
## PE3W02685/HS

## Configuration

- Connector 1: SMA MaleConnector 2: SMA MaleCable Type: LMR-100A
- Coax Flex Type: Flexible

#### **Features**

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- · 66% Phase Velocity
- · Double Shielded
- PVC Jacket



## **Applications**

General Purpose

Laboratory Use

#### Description

Pasternack's PE3W02685/HS SMA male to SMA male 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W02685/HS SMA male to SMA male cable assembly operates to 6 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.

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 SMA Male Low Loss Cable Using LMR-100 Coax with HeatShrink PE3W02685/HS

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





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## PE3W02685/HS

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR		750	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]	100	Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency

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Part Number	Longth	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Number	Length	Frequency	250	500	1000	2500	6000	MHz	weight (ibs)
PE3W02685/HS	Custom Lengths	Insertion Loss (Typ.)	0.12	0.17	0.24	0.4	0.64	dB/ft	
1 23 11 02 08 37 113	Available	111361 tio11 Lo33 (1 yp.)	0.38	0.55	0.79	1.31	2.11	dB/m	
PE3W02685/HS-24	24 inch	Insertion Loss (Typ.)	0.43	0.53	0.68	1	1.49	dB	0.04
PE3W02685/HS-36	36 inch	Insertion Loss (Typ.)	0.55	0.7	0.92	1.4	2.13	dB	0.049
PE3W02685/HS-48	48 inch	Insertion Loss (Typ.)	0.66	0.86	1.16	1.8	2.77	dB	0.058
PE3W02685/HS-100CM	100 cm	Insertion Loss (Typ.)	0.58	0.75	0.99	1.51	2.31	dB	0.052
PE3W02685/HS-200CM	200 cm	Insertion Loss (Typ.)	0.96	1.29	1.78	2.82	4.41	dB	0.082

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:

O.1 dB

Loss due to Connector 2:

Base Weight:

Additional Weight per Inch:

0.00075 pounds

#### **Mechanical Specifications**

#### Cable Assembly

Weight 0.031 lbs [14.06 g]

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## **TECHNICAL DATA SHEET**

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Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Shield Layer 1

Shield Layer 2

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment

Flat Plate Crush

Tensile Strength

LMR-100A 50 Ohms Solid

Copper Clad Steel

PE

2

Aluminum Tape

**Tinned Copper Braid** 

PVC, Black 0.11 in [2.79 mm]

0.25 in [6.35 mm]

1 in [25.4 mm]

0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm]

15 lbs [6.8 Kg]

#### Connectors

Description	Connector 1	Connector 2			
Туре	SMA Male Threaded	SMA Male Threaded			
Impedance	50 Ohms	50 Ohms			
Contact Material and Plating	Brass, Gold	Brass, Gold			
Dielectric Type	PTFE	PTFE			
Body Material and Plating	Brass, Gold	Brass, Gold			
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold			
Hex Size	5/16 in	5/16 in			
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 Nm]			

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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## **TECHNICAL DATA SHEET**

### PE3W02685/HS

#### **How to Order**

Part Number Configuration:

PE3W02685/HS - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
<br/>
Length
Base Number

Example: PE3W02685/HS-12 = 12 inches long cable PE3W02685/HS-100cm = 100 cm long cable

SMA Male to SMA Male 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: SMA Male to SMA Male Low Loss Cable Using LMR-100 Coax with HeatShrink PE3W02685/HS

URL: https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-using-lmr-100-with-heatshrink-pe3w02685-hs-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.

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## PE3W02685/HS CAD Drawing

