



**SSMB Jack Bulkhead to SMA Male Right Angle Cable 50 cm
Length Using LMR-100 Coax with HeatShrink, LF Solder**

RF Cable Assemblies Technical Data Sheet

PE3W05737LF/HS-50CM

Configuration

- Connector 1: SSMB Jack Bulkhead
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-100A

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05737LF/HS-50CM SSMB jack bulkhead to SMA male right angle 50 cm 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 SSMB to SMA cable assembly has a jack to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W05737LF/HS-50CM SSMB jack to SMA male cable assembly operates to 3 GHz. The right angle SMA interface on the LMR-100A cable allows for easier connections in tight spaces. Our RF cable assembly with SSMB bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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: [SSMB Jack Bulkhead to SMA Male Right Angle Cable 50 cm Length Using LMR-100 Coax with HeatShrink, LF Solder PE3W05737LF/HS-50CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
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 Km]		81 [265.75]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor Km]		9.5 [31.17]		Ohms/1000ft [Ohms/
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.49	0.57	0.7	0.96	1.02	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connectro loss.

Mechanical Specifications

Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.315 in [8 mm]

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Jack Bulkhead to SMA Male Right Angle Cable 50 cm Length Using LMR-100 Coax with HeatShrink, LF Solder PE3W05737LF/HS-50CM](#)



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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]

Connectors

Description	Connector 1	Connector 2
Type	SSMB Jack Bulkhead	SMA Male Right Angle
Specification	MIL-STD-348	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	MIL-G-45204	100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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

Plotted and Other Data

Notes:

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PE3W05737LF/HS-50CM

How to Order

Part Number Configuration:

PE3W05737LF/HS - xx

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

Example: PE3W05737LF/HS-12 = 12 inches long cable
PE3W05737LF/HS-100cm = 100 cm long cable

SSMB Jack Bulkhead to SMA Male Right Angle Cable 50 cm Length Using LMR-100 Coax with HeatShrink, LF Solder 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: [SSMB Jack Bulkhead to SMA Male Right Angle Cable 50 cm Length Using LMR-100 Coax with HeatShrink, LF Solder PE3W05737LF/HS-50CM](https://www.pasternack.com/ssmb-jack-sma-male-lmr100-cable-assembly-pe3w05737lf-hs-50cm-p.aspx)

URL: <https://www.pasternack.com/ssmb-jack-sma-male-lmr100-cable-assembly-pe3w05737lf-hs-50cm-p.aspx>

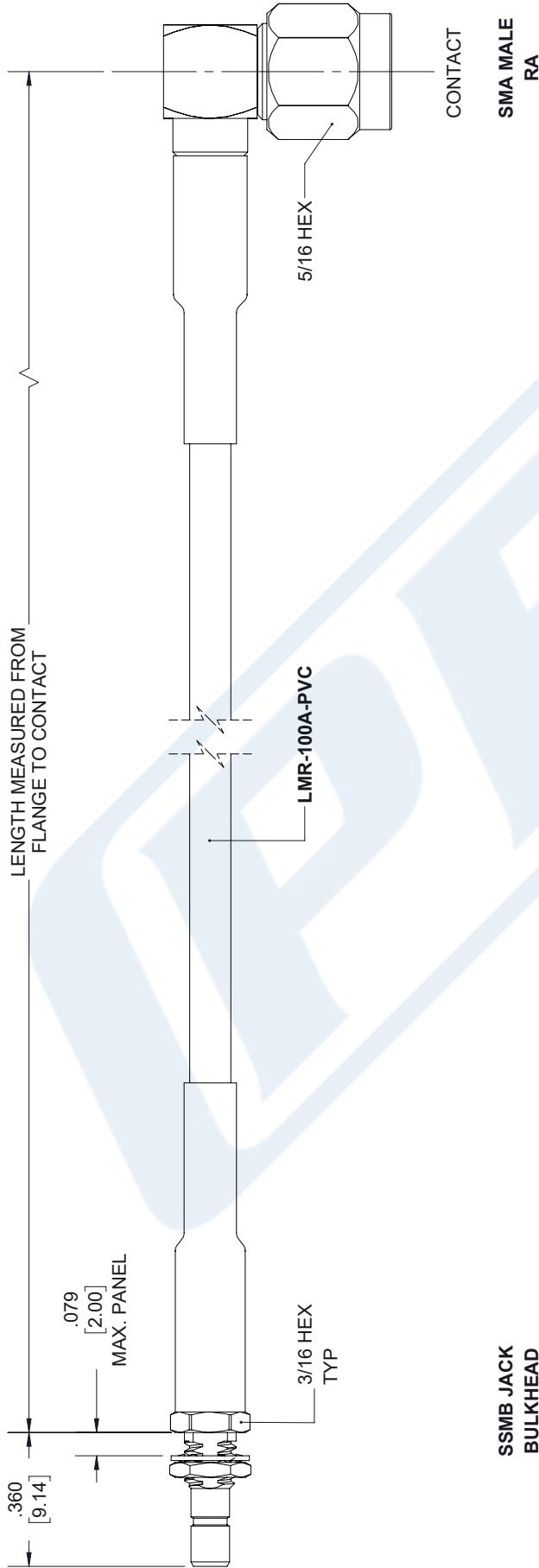
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PE3W05737LF/HS-50CM CAD Drawing

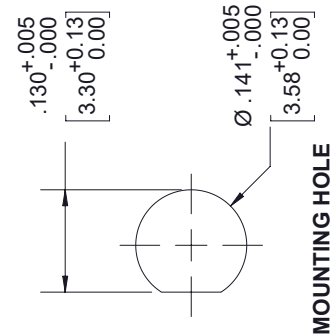
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	SELLIS



SSMB JACK
BULKHEAD



MOUNTING HOLE

PE PASTERNAK an INFINITE brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.	
SHEET 1 OF 1		SCALE N/A	
SIZE A	CAGE 53919	DRAWN BY K.DANG	PART NUMBER PE3W05737LF/HS
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		TOLERANCES: X±.2 [5.08] XX±.01 [25] XXX±.005 [13]	
FRACTIONS ±1/32 ANGLES ±1°		ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. THIRD-ANGLE PROJECTION	
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