

## N Female Bulkhead to SSMB Plug Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder



### RF Cable Assemblies Technical Data Sheet

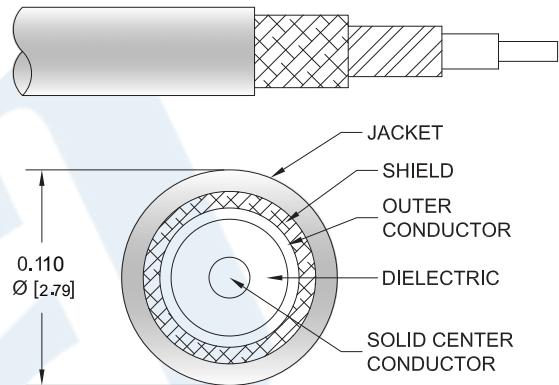
**PE3W10487LF/HS**

#### Configuration

- Connector 1: N Female Bulkhead
- Connector 2: SSMB Plug
- Cable Type: LMR-100A

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W10487LF/HS type N female bulkhead 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 type N to SSMB cable assembly has a female to plug gender configuration with 50 ohm flexible LMR-100A coax. The PE3W10487LF/HS type N female to SSMB plug cable assembly operates to 5.8 GHz. Our RF cable assembly with type N 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: [N Female Bulkhead to SSMB Plug Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder PE3W10487LF/HS](#)

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**PE3W10487LF/HS**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.115	0.165	0.24	0.398	0.641	dB/ft
	0.38	0.54	0.79	1.31	2.1	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

Weight 0.101 lbs [45.81 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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead to SSMB Plug Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder PE3W10487LF/HS](#)

## N Female Bulkhead to SSMB Plug Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder



### RF Cable Assemblies Technical Data Sheet

**PE3W10487LF/HS**

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	N Female Bulkhead	SSMB Plug
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	100	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		30 $\mu$ in minimum
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 $\mu$ in minimum	30 $\mu$ in minimum

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +85 deg C

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

#### Plotted and Other Data

Notes:

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Using LMR-100 Coax with HeatShrink, LF Solder



**RF Cable Assemblies Technical Data Sheet**

**PE3W10487LF/HS**

**How to Order**

Part Number Configuration:

**PE3W10487LF/HS - xx**

**uu**

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

Example: PE3W10487LF/HS-12 = 12 inches long cable  
PE3W10487LF/HS-100cm = 100 cm long cable

N Female Bulkhead to SSMB Plug Low Loss Cable 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.

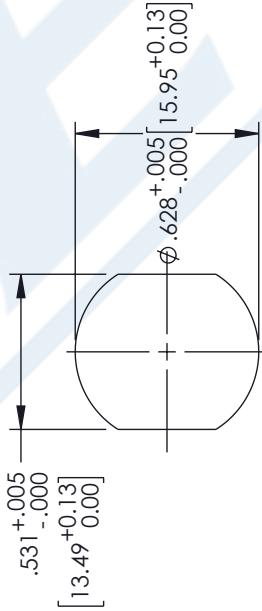
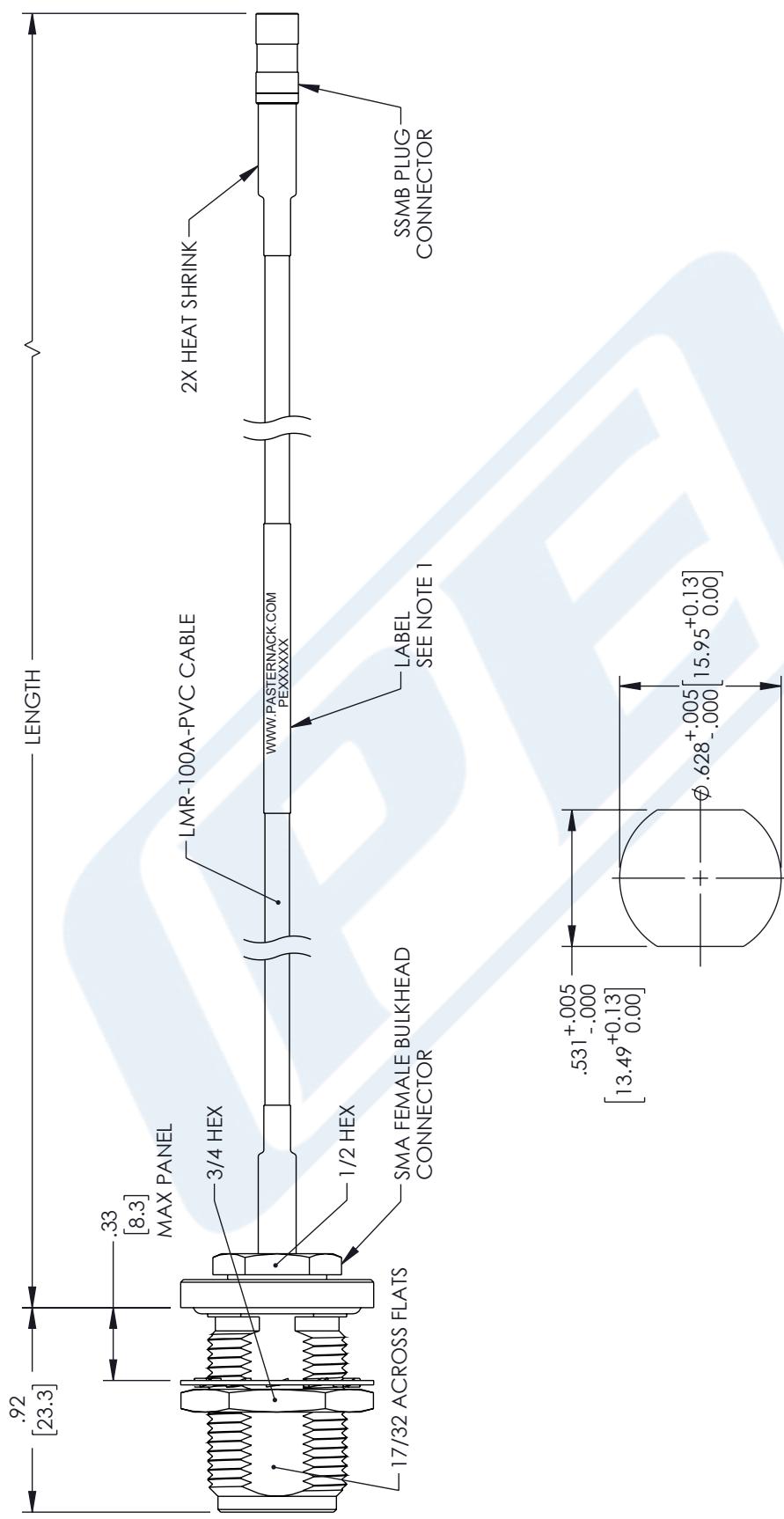
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URL: <https://www.pasternack.com/n-female-bulkhead-to-ssmb-plug-low-loss-cable-using-lmr-100-with-heatshrink-lf-solder-pe3w10487lf-hs-p.aspx>

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# PE3W10487LF/HS CAD Drawing

N Female Bulkhead to SSMB Plug Low Loss Cable Using  
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NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES  
FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5  
SCALE

SHEET

1 OF 1

N FEMALE BULKHEAD TO SSMB PLUG LOW LOSS CABLE  
USING LMR-100 COAX WITH HEATSHRINK, LF SOLDER

ITEM NO. PE3W10487LF-HS  
REV A

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE IN INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS  
TOLERANCES:  
 $X = \pm .2$  [5] FRACTIONS  
 $XX = \pm .02$  [.5]  $\pm .032$   
 $XXX = \pm .005$  [.13] ANGLES  $\pm 1^\circ$   
CABLE LENGTH TOLERANCES:  
 $>12 [305] >80 [1524] = +1$   
 $>12 [305] >80 [1524] = +2$  [51] / -0  
 $>60 [1524] \leq 120 [3048] = +4$  [102] / -0  
 $>120 [3048] \leq 300 [7620] = +6$  [152] / -0  
 $>300 [7620] = +5\% / -0$

ALL DIMENSIONS ARE FOR REFERENCE ONLY

AND SUBJECT TO CHANGE WITHOUT NOTICE