



## SMA Male to SSMC Plug Low Loss Cable Using LMR-100 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

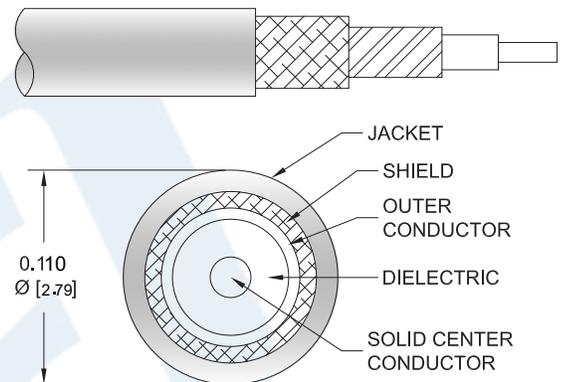
**PE3C4532/HS**

#### Configuration

- Connector 1: SMA Male
- Connector 2: SSMC 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 PE3C4532/HS SMA male to SSMC 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 SMA to SSMC cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-100A coax. The PE3C4532/HS SMA male to SSMC plug cable assembly operates to 5.8 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 SSMC Plug Low Loss Cable Using LMR-100 Coax with HeatShrink PE3C4532/HS](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
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]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		9.5 [31.17]		$\Omega$ /1000ft [ $\Omega$ /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 0.023 lbs [10.43 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]

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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	SMA Male	SSMC Plug
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	PTFE
Body Material and Plating	Stainless Steel	Beryllium Copper, Gold
Coupling Nut Material and Plating	Stainless Steel	Beryllium Copper, Gold
Hex Size		5/32 inch
Torque		1 in-lbs [0.11 Nm]

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

**Plotted and Other Data**

Notes:

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## SMA Male to SSMC Plug Low Loss Cable Using LMR-100 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

**PE3C4532/HS**

#### How to Order

Part Number Configuration:

**PE3C4532/HS - xx uu**

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

Example: PE3C4532/HS-12 = 12 inches long cable  
PE3C4532/HS-100cm = 100 cm long cable

SMA Male to SSMC 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.

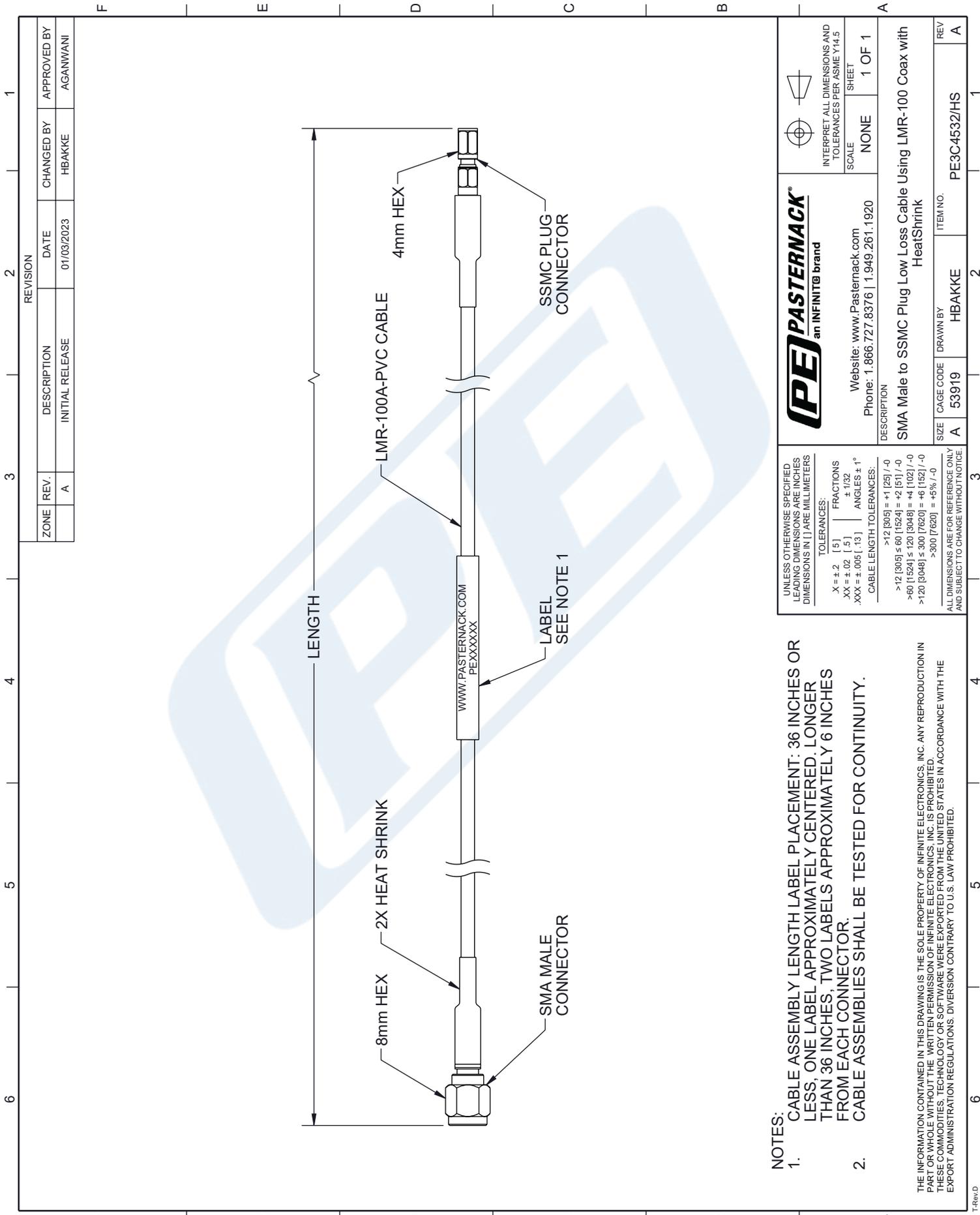
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URL: <https://www.pasternack.com/sma-male-to-ssmc-plug-low-loss-cable-using-lmr-100-with-heatshrink-pe3c4532-hs-p.aspx>

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# PE3C4532/HS CAD Drawing

SMA Male to SSMC Plug Low Loss Cable Using LMR-100 Coax with HeatShrink



- NOTES:**
- 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.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X = ±.2 [ .5 ]	± 1/32
.XX = ±.02 [ .5 ]	ANGLES ± 1°
.XXX = ±.005 [ .13 ]	
CABLE LENGTH TOLERANCES:	
>12 [305] = +1 [25] / -0	
>12 [305] ≤ 60 [1524] = -2 [51] / -0	
>60 [1524] ≤ 120 [3048] = +4 [102] / -0	
>120 [3048] ≤ 300 [7620] = +6 [152] / -0	
>300 [7620] = +5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	

Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION <b>SMA Male to SSMC Plug Low Loss Cable Using LMR-100 Coax with HeatShrink</b>		
SIZE: A CAGE CODE: 53919 DRAWN BY: HBAKKE ITEM NO.: PE3C4532/HS	REV: A	