



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

TECHNICAL DATA SHEET

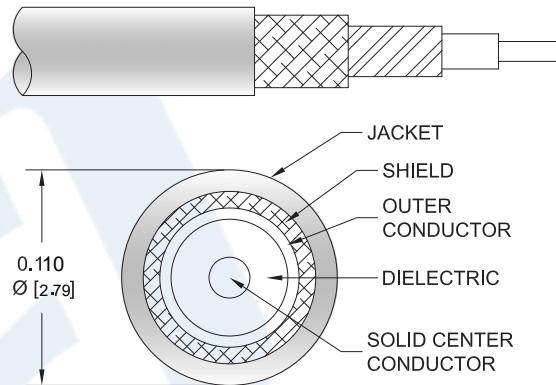
PE3W02623/HS

Configuration

- Connector 1: N Male
- Connector 2: SMA Male
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02623/HS type N 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 type N to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W02623/HS type N male to SMA male cable assembly operates to 1 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: [N Male to SMA Male Low Loss Cable Using LMR-100 Coax with HeatShrink PE3W02623/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
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

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	50	100	250	500	1000	MHz	
PE3W02623/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.06	0.12	0.17	0.24	dB/ft	
			0.13	0.21	0.38	0.55	0.79	dB/m	
PE3W02623/HS-24	24 inch	Insertion Loss (Typ.)	0.28	0.33	0.43	0.53	0.68	dB	0.091
PE3W02623/HS-36	36 inch	Insertion Loss (Typ.)	0.32	0.4	0.55	0.7	0.92	dB	0.1
PE3W02623/HS-48	48 inch	Insertion Loss (Typ.)	0.36	0.46	0.66	0.86	1.16	dB	0.109
PE3W02623/HS-100CM	100 cm	Insertion Loss (Typ.)	0.33	0.41	0.58	0.75	0.99	dB	0.103
PE3W02623/HS-200CM	200 cm	Insertion Loss (Typ.)	0.46	0.62	0.96	1.29	1.78	dB	0.133

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: 0.082 pounds
Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight 0.082 lbs [37.19 g]

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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]

Connectors

Description	Connector 1	Connector 2
Type	N Male Threaded	SMA Male Threaded
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 μ in minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 μ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Gold
Coupling Nut Plating Specification	100 μ in minimum	
Hex Size		5/16 in
Torque		5 in-lbs [0.57 Nm]

Compliance Certifications

(see product page for current document)

Plotted and Other Data

Notes:

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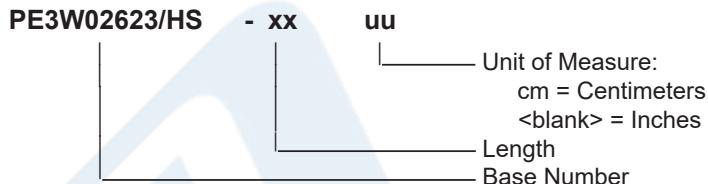
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PE3W02623/HS

How to Order

Part Number Configuration:



Example: PE3W02623/HS-12 = 12 inches long cable
PE3W02623/HS-100cm = 100 cm long cable

N 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.

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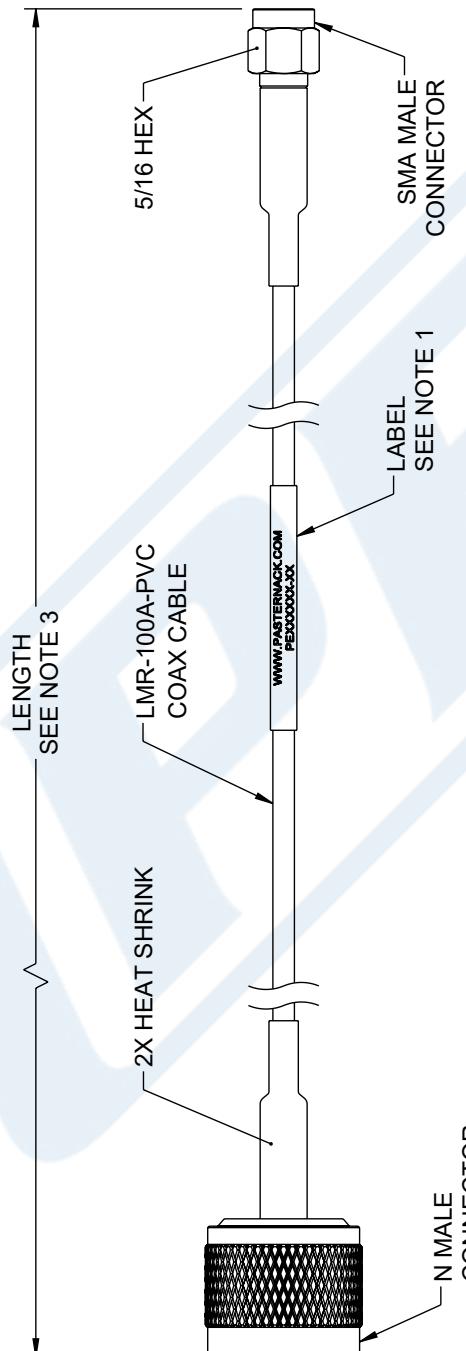
URL: <https://www.pasternack.com/n-male-to-sma-male-low-loss-cable-using-lmr-100-with-heatshrink-pe3w02623-hs-p.aspx>

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PE3W02623/HS CAD Drawing

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

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		INITIAL RELEASE	09/21/2023	HEAKKE	AGANWANI



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.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND
DESCRIPTION.

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 PASTERNACK® an INFINITI® brand		INTERP'T ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		
 		SCALE	SHEET	
TOLERANCES: $X = \pm 2.2 [5]$ $XX = \pm 0.02 [0.13]$ $XXX = \pm .005 [0.013]$		FRACTIONS $\pm 1/32$ ANGLES $\pm 1^\circ$ CABLE LENGTH TOLERANCES: $\leq 12 [305] = \pm 1 [25] - 0$ $> 12 [305] \leq 60 [1524] = \pm 2 [51] - 0$ $> 60 [1524] \leq 120 [3048] = \pm 4 [102] - 0$ $> 120 [3048] \leq 300 [7620] = \pm 6 [152] - 0$ $> 300 [7620] = \pm 5\% [1830] - 0$	Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	DESCRIPTION N MALE TO GOLD PLATED SMA MALE LOW LOSS CABLE USING LMR-100 COAX WITH HEATSHRINK
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	
A	53919	HBAKKE	PE3W02623/HS	
<small>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY</small>				

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