

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-LW600 Coax with HeatShrink



PE3W18962/HS

Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: LMR-LW600
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W18962/HS type N male right angle to type N male right angle cable using LMR-LW600 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-LW600 coax. The PE3W18962/HS type N male to type N male cable assembly operates to 8 GHz. The right angle type N interfaces on the LMR-LW600 cable allow for easier connections in tight spaces. 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.4 [14.44]		Ohms/1000ft [Ohms/Km]

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-LW600 Coax with HeatShrink



PE3W18962/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W18962/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.018	0.026	0.039	0.057	0.088	dB/ft	
			0.06	0.09	0.13	0.19	0.29	dB/m	
PE3W18962/HS-24	24 inch	Insertion Loss (Typ.)	0.44	0.46	0.48	0.52	0.58	dB	0.501
PE3W18962/HS-36	36 inch	Insertion Loss (Typ.)	0.46	0.48	0.52	0.58	0.67	dB	0.605
PE3W18962/HS-48	48 inch	Insertion Loss (Typ.)	0.48	0.51	0.56	0.63	0.76	dB	0.709
PE3W18962/HS-120	120 inch	Insertion Loss (Typ.)	0.58	0.66	0.79	0.97	1.28	dB	1.333
PE3W18962/HS-180	180 inch	Insertion Loss (Typ.)	0.67	0.79	0.99	1.26	1.72	dB	1.853

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.396 pounds
Additional Weight per Inch:	0.00867 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.292 lbs [132.45 g]

Cable

Cable Type	LMR-LW600
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Aluminum
Jacket Material	PE, Black
Jacket Diameter	0.59 in [14.99 mm]
One Time Minimum Bend Radius	1.5 in [38.1 mm]
Repeated Minimum Bend Radius	6 in [152.4 mm]
Bending Moment	2.75 lbs-ft [3.73 N-m]
Flat Plate Crush	60 lbs/in [1.07 Kg/mm]
Tensile Strength	260 lbs [117.93 Kg]

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-LW600 Coax with HeatShrink



PE3W18962/HS

Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-LW600 Coax with HeatShrink



PE3W18962/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W18962/HS - xx uu



Example: PE3W18962/HS-12 = 12 inches long cable
PE3W18962/HS-100cm = 100 cm long cable

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-LW600 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: [N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-LW600 Coax with HeatShrink PE3W18962/HS](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-n-male-low-loss-cable-using-lmr-lw600-with-heatshrink-pe3w18962-hs-p.aspx>

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W18962/HS CAD Drawing

N Male Right Angle to N Male Right Angle Low Loss Cable Using LMR-LW600 Coax with HeatShrink

