

N Male to N Male Low Loss Cable Using LMR-600-UF Coax with HeatShrink



PE3W12499/HS

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-600-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- TPE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12499/HS type N male to type N male cable using LMR-600-UF 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-600-UF coax. The PE3W12499/HS type N male to type N male cable assembly operates to 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.4:1	
Velocity of Propagation		87		%
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		0.43 [1.41]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ohms/1000ft [Ohms/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units MHz	Weight (lbs)
		Frequency	500	1000	2000	4000	8000		
PE3W12499/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.022	0.032	0.047	0.062	0.087	dB/ft	
			0.08	0.11	0.16	0.21	0.29	dB/m	
PE3W12499/HS-12	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.25	0.27	0.29	dB	0.474
PE3W12499/HS-24	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.33	0.38	dB	0.651
PE3W12499/HS-36	36 inch	Insertion Loss (Typ.)	0.27	0.3	0.35	0.39	0.47	dB	0.827
PE3W12499/HS-60	60 inch	Insertion Loss (Typ.)	0.31	0.36	0.44	0.51	0.64	dB	1.179
PE3W12499/HS-300	3000 inch	Insertion Loss (Typ.)	0.75	1	1.38	1.75	2.38	dB	4.699

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: 0.474 pounds

Additional Weight per Inch: 0.01467 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.474 lbs [215 g]

Cable

Cable Type	LMR-600-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
Jacket Material	TPE, 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	1.75 lbs-ft [2.37 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

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Connectors

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

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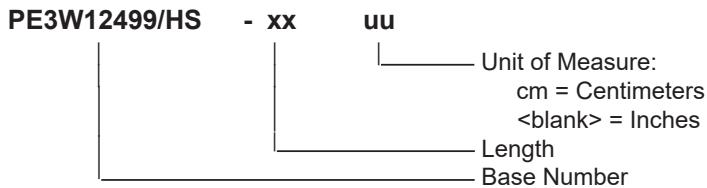


PE3W12499/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W12499/HS-12 = 12 inches long cable
PE3W12499/HS-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using LMR-600-UF 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 to N Male Low Loss Cable Using LMR-600-UF Coax with HeatShrink PE3W12499/HS](#)

URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-lmr-600-uf-with-heatshrink-pe3w12499-hs-p.aspx>

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PE3W12499/HS CAD Drawing

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