

N Male Right Angle to N Female Low Loss Cable Using LMR-600-DB Coax



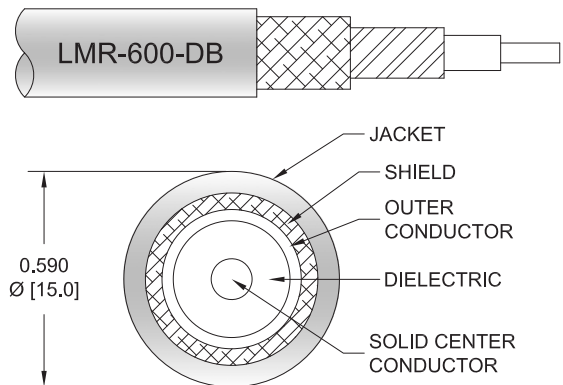
PE3W17720

Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Female
- Cable Type: LMR-600-DB
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W17720 type N male right angle to type N female cable using LMR-600-DB 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 female gender configuration with 50 ohm flexible LMR-600-DB coax. The PE3W17720 type N male to type N female cable assembly operates to 8 GHz. The right angle type N interface on the LMR-600-DB cable allows 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		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		0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ohms/1000ft [Ohms/Km]

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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	
PE3W17720	Custom Lengths Available	Insertion Loss (Typ.)	0.012	0.017	0.026	0.044	0.073	dB/ft	
			0.04	0.06	0.09	0.15	0.24	dB/m	
PE3W17720-12	12 inch	Insertion Loss (Typ.)	0.32	0.32	0.33	0.35	0.38	dB	0.409
PE3W17720-36	36 inch	Insertion Loss (Typ.)	0.34	0.36	0.38	0.44	0.52	dB	0.682
PE3W17720-48	48 inch	Insertion Loss (Typ.)	0.35	0.37	0.41	0.48	0.6	dB	0.818
PE3W17720-180	180 inch	Insertion Loss (Typ.)	0.48	0.56	0.69	0.96	1.4	dB	2.315
PE3W17720-240	240 inch	Insertion Loss (Typ.)	0.54	0.64	0.82	1.18	1.76	dB	2.995

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:	0.1 dB
Base Weight:	0.409 pounds
Additional Weight per Inch:	0.01134 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.409 lbs [185.52 g]

Cable

Cable Type	LMR-600-DB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
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	350 lbs [158.76 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Female
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Phosphor Bronze, 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:

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PE3W17720

Typical Performance Data

How to Order

Part Number Configuration:

PE3W17720

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W17720-12 = 12 inches long cable
PE3W17720-100cm = 100 cm long cable

N Male Right Angle to N Female Low Loss Cable Using LMR-600-DB Coax 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 Female Low Loss Cable Using LMR-600-DB Coax PE3W17720](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-n-female-low-loss-cable-using-lmr-600-db-pe3w17720-p.aspx>

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PE3W17720 CAD Drawing

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