



## N Female to N Female Low Loss Cable Using LMR-600-DB Coax

### TECHNICAL DATA SHEET

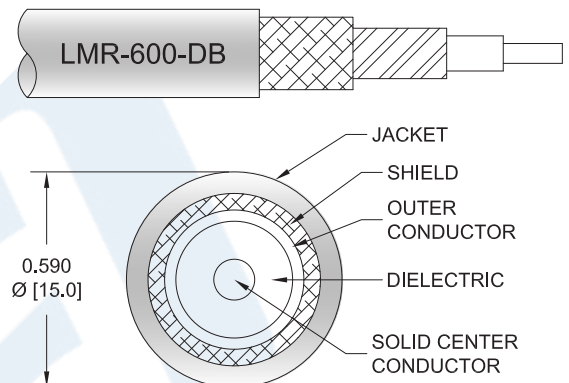
**PE3W05445**

#### Configuration

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

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05445 type N female 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 female to female gender configuration with 50 ohm flexible LMR-600-DB coax. The PE3W05445 type N female to type N female 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: [N Female to N Female Low Loss Cable Using LMR-600-DB Coax PE3W05445](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ω/1000ft [Ω/Km]
Jacket Spark			8,000	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
PE3W05445	Custom Lengths Available	Insertion Loss (Typ.)	0.01	0.02	0.03	0.04	0.07	dB/ft	
			0.04	0.06	0.09	0.15	0.24	dB/m	
PE3W05445-12	12 inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.28	dB	0.39
PE3W05445-36	36 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.34	0.42	dB	0.663
PE3W05445-48	48 inch	Insertion Loss (Typ.)	0.25	0.27	0.31	0.38	0.5	dB	0.799
PE3W05445-180	180 inch	Insertion Loss (Typ.)	0.38	0.46	0.59	0.86	1.3	dB	2.296
PE3W05445-240	240 inch	Insertion Loss (Typ.)	0.44	0.54	0.72	1.08	1.66	dB	2.976

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:	0.39 pounds
Additional Weight per Inch:	0.01134 pounds

#### Mechanical Specifications

##### Cable Assembly

Weight	0.39 lbs [176.9 g]
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#### 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]

#### Connectors

Description	Connector 1	Connector 2
Type	N Female Threaded	N Female Threaded
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

#### Environmental Specifications

##### Temperature

Operating Range	-40 to +85 deg C
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**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to N Female Low Loss Cable Using LMR-600-DB Coax PE3W05445](#)



## N Female to N Female Low Loss Cable Using LMR-600-DB Coax

### TECHNICAL DATA SHEET

**PE3W05445**

#### How to Order

Part Number Configuration:

**PE3W05445**

- **xx**

**uu**

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

Example: PE3W05445-12 = 12 inches long cable  
PE3W05445-100cm = 100 cm long cable

N Female 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 Female to N Female Low Loss Cable Using LMR-600-DB Coax PE3W05445](#)

URL: <https://www.pasternack.com/n-female-to-n-female-low-loss-cable-using-lmr-600-db-pe3w05445-p.aspx>

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

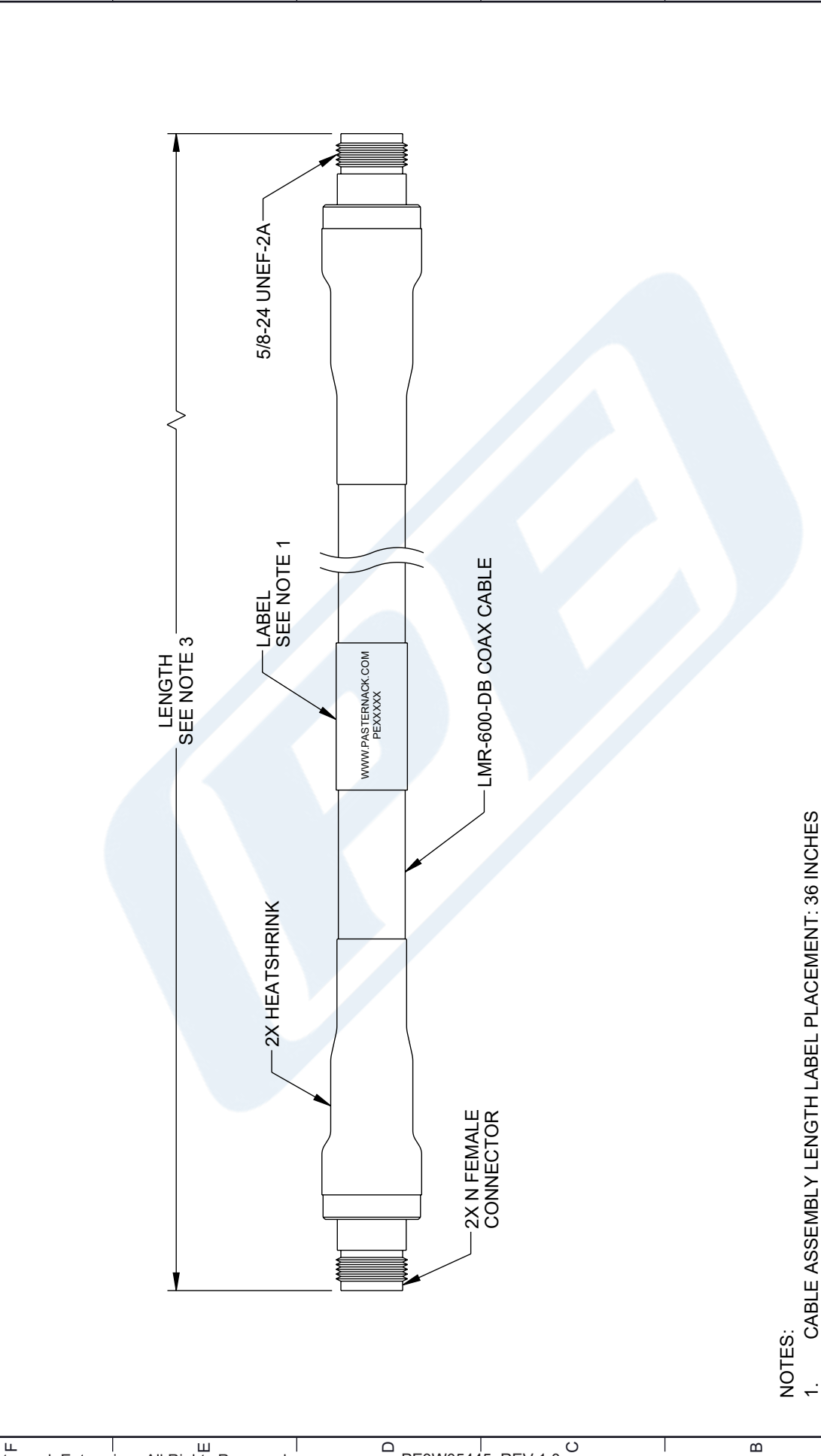
PE3W05445 CAD Drawing

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

F E D C B A

F E D C B A

ZONE		REV		DESCRIPTION		DATE		CHANGED BY		APPROVED	
A		A		INITIAL RELEASE		10/03/2023		DMAY		AGANWANI	



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

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.

TOLERANCES:

X ± .02 [0.5]	FRACTIONS ± 1/32
.XX ± .005 [0.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

<12 [305]	± .1 [5]	/ -0
>12 [305] ≤ 60 [1524]	± .2 [5]	/ -0
>60 [1524] ≤ 120 [3048]	± .4 [10]	/ -0
>120 [3048] ≤ 300 [7620]	± .6 [15]	/ -0
>300 [7620]	± .8 [20]	/ -0

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Website: [www.Pasternack.com](http://www.Pasternack.com)  
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: N FEMALE TO N FEMALE LOW LOSS CABLE USING LMR-600-DB COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DMAY	PE3W05445	A