



N Male Right Angle to TNC Male Cable Using LMR-600-DB Coax

RF Cable Assemblies Technical Data Sheet

PE3C4750

Configuration

- Connector 1: N Male Right Angle
- Connector 2: TNC Male
- Cable Type: LMR-600-DB

Features

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

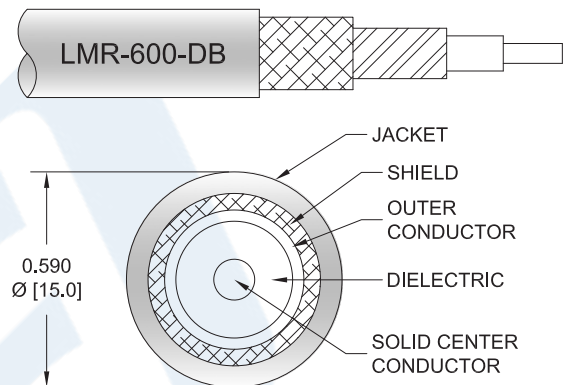
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C4750 type N male right angle to TNC male 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 TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-600-DB coax. The PE3C4750 type N male to TNC male cable assembly operates to 5.8 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.



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 TNC Male Cable Using LMR-600-DB Coax PE3C4750](#)



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Electrical Specifications

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

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	5.8	GHz
Insertion Loss (Max.)	0.02	0.03	0.04	0.06	0.07	dB/ft
	0.07	0.1	0.13	0.2	0.23	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.3dB connector loss.

Mechanical Specifications

Cable Assembly

Diameter 0.81 in [20.57 mm]

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]

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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 Male Right Angle	TNC Male
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	1.27µm minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	2µm minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	2µm minimum	
Hex Size	20.57 mm	
Torque	44 in-lbs [4.97 Nm]	

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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 Male Right Angle to TNC Male Cable Using LMR-600-DB Coax PE3C4750](#)

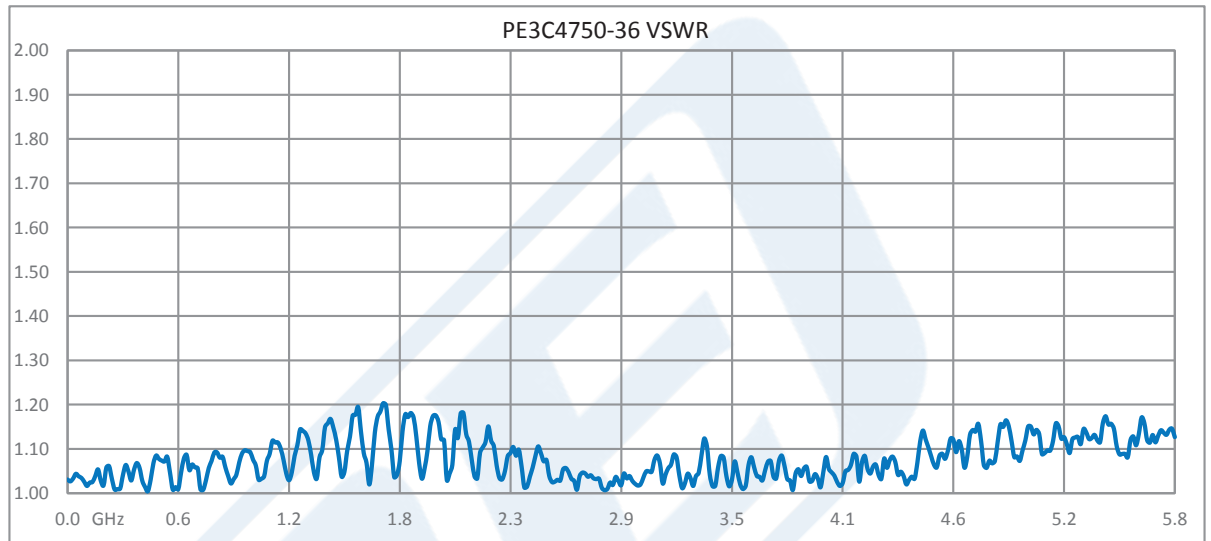


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Typical Performance Data



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How to Order

Part Number Configuration:

PE3C4750

- **xx**

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

Example: PE3C4750-12 = 12 inches long cable
PE3C4750-100cm = 100 cm long cable

N Male Right Angle to TNC Male 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.

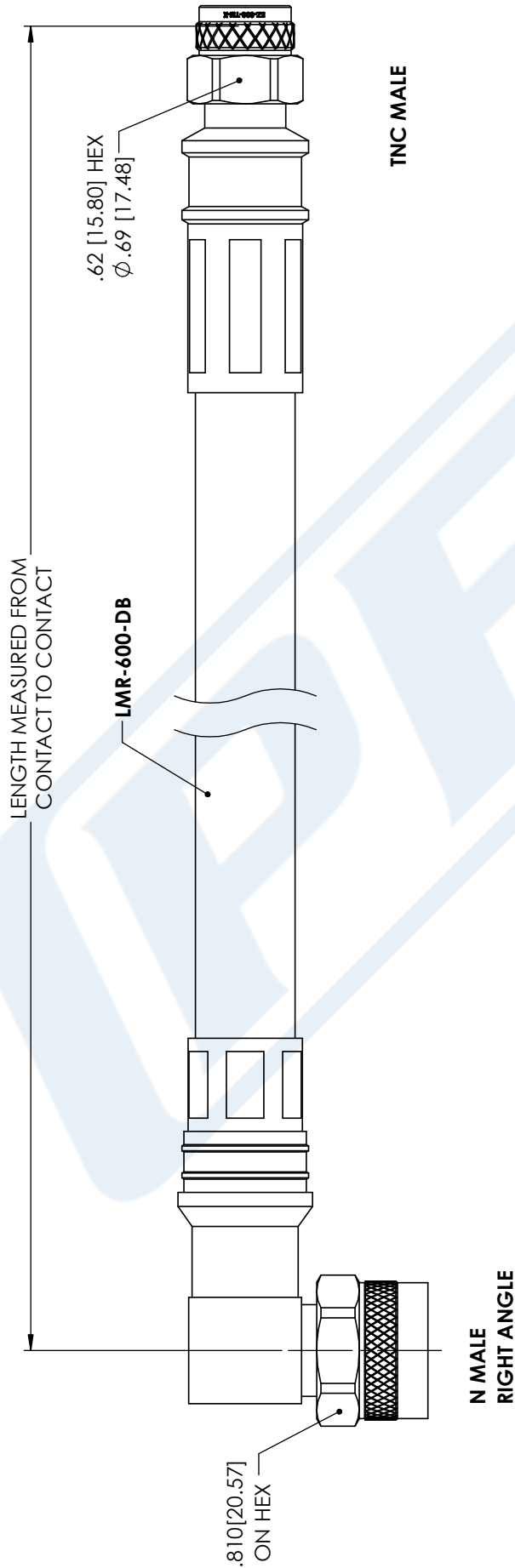
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to TNC Male Cable Using LMR-600-DB Coax PE3C4750](https://www.pasternack.com/n-male-tnc-male-lmr600db-cable-assembly-pe3c4750-p.aspx)

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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.

PE3C4750 CAD Drawing

N Male Right Angle to TNC Male Cable Using LMR-600-DB Coax



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<p>PE PASTERNAK THE ENGINEER'S RF SOURCE</p> <p>Pasternack Enterprises, Inc. P.O. Box 16759 Irvine CA 92623</p> <p>Phone: (949) 261-1920 Fax: (949) 261-7451 Website: www.pasternack.com E-Mail: sales@pasternack.com</p>	<p>DWG TITLE</p> <p>PE3C4750</p>	<p>NOTES:</p> <ol style="list-style-type: none"> UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME DIMENSIONS ARE IN INCHES [mm]. 		
	<p>CAGE CODE</p> <p>53919</p>	<p>CAD FILE</p> <p>09/29/18</p>	<p>SCALE</p> <p>N/A</p>	<p>SIZE</p> <p>A</p>