



N Male Right Angle to TNC Male Low Loss Cable  
Using LMR-240-DB Coax with HeatShrink

**RF Cable Assemblies Technical Data Sheet**

**PE3W02027/HS**

**Configuration**

- Connector 1: N Male Right Angle
- Connector 2: TNC Male
- Cable Type: LMR-240-DB

**Features**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket

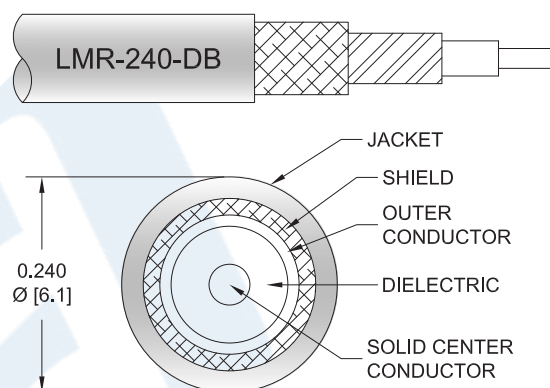
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W02027/HS type N male right angle to TNC male cable using LMR-240-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-240-DB coax. The PE3W02027/HS type N male to TNC male cable assembly operates to 5.8 GHz. The right angle type N interface on the LMR-240-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 Low Loss Cable Using LMR-240-DB Coax with HeatShrink PE3W02027/HS](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.039	0.055	0.079	0.129	0.204	dB/ft
	0.13	0.18	0.26	0.42	0.67	dB/m

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the N Male right angle connector and 0.1 dB for the TNC Male straight connector.

**Mechanical Specifications**

**Cable Assembly**

Weight 0.163 lbs [73.94 g]

**Cable**

Cable Type	LMR-240-DB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
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	0.24 in [6.1 mm]

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## N Male Right Angle to TNC Male Low Loss Cable Using LMR-240-DB Coax with HeatShrink

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**PE3W02027/HS**

One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

#### Connectors

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

#### 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:

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**PE3W02027/HS**

**How to Order**

Part Number Configuration:

**PE3W02027/HS**

- **xx**

**uu**

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

Example: PE3W02027/HS-12 = 12 inches long cable  
PE3W02027/HS-100cm = 100 cm long cable

N Male Right Angle to TNC Male Low Loss Cable Using LMR-240-DB 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 TNC Male Low Loss Cable Using LMR-240-DB Coax with HeatShrink PE3W02027/HS](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-tnc-male-low-loss-cable-using-lmr-240-db-with-heatshrink-pe3w02027-hs-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.

## N Male Right Angle to TNC Male Low Loss Cable Using LMR-240-DB Coax with HeatShrink

Technical drawing of a cable assembly. The drawing shows a side view of the cable with a label that reads "WWW.PASTERNAK.COM PEB00000". The cable is labeled "LMR-240-DB CABLE". The assembly includes a "TNC MALE CONNECTOR" at one end and an "N MALE RIGHT ANGLE CONNECTOR" at the other. The cable is protected by "2X HEAT SHRINK". A dimension line indicates the "LENGTH" of the assembly. A "18mm HEX" dimension is shown for the N connector. A label points to the cable body with the text "LABEL SEE NOTE 1".

1. 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.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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