

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



RF Cable Assemblies Technical Data Sheet

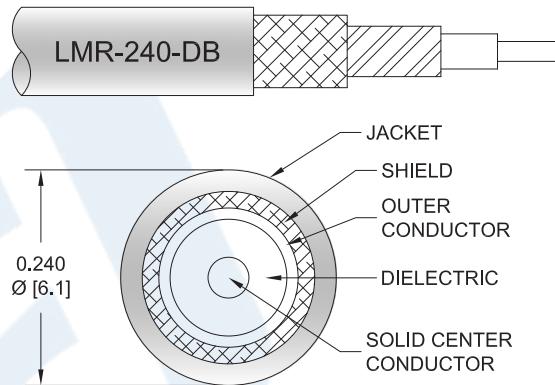
PE3C6011/HS

Configuration

- Connector 1: N Male Right Angle
- Connector 2: N 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 PE3C6011/HS type N male right angle to type N 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-DB coax. The PE3C6011/HS type N male to type N 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 N Male Low Loss Cable Using LMR-240-DB Coax with HeatShrink PE3C6011/HS](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range | DC | | 5.8 | GHz |
| 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 right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.218 lbs [98.88 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]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

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Repeated Minimum Bend Radius
Bending Moment
Flat Plate Crush
Tensile Strength

2.5 in [63.5 mm]
0.25 lbs-ft [0.34 N-m]
20 lbs/in [0.36 Kg/mm]
80 lbs [36.29 Kg]

Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|--------------------|------------------|
| Type | N Male Right Angle | N Male |
| Specification | | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| 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 |

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Using LMR-240-DB Coax with HeatShrink



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PE3C6011/HS

How to Order

Part Number Configuration:

PE3C6011/HS - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: PE3C6011/HS-12 = 12 inches long cable
PE3C6011/HS-100cm = 100 cm long cable

N Male Right Angle to N 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.

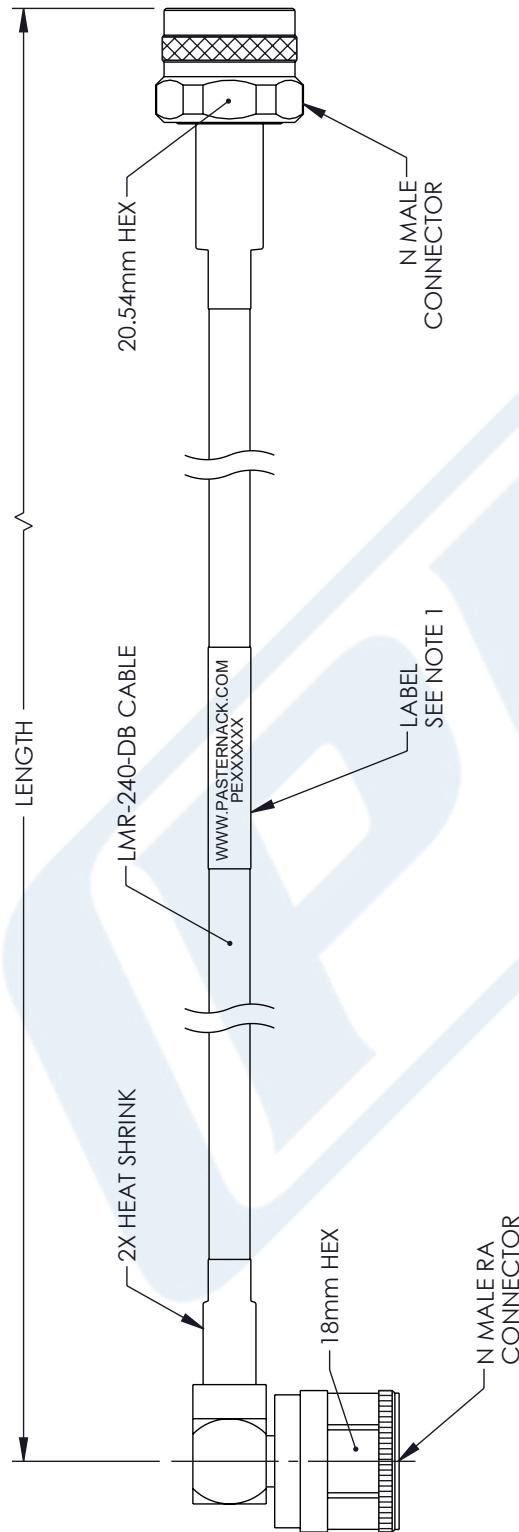
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URL: <https://www.pasternack.com/n-male-right-angle-to-n-male-low-loss-cable-using-lmr-240-db-with-heatshrink-pe3c6011-hs-p.aspx>

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.

PE3C6011/HS CAD Drawing

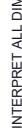
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NOTES:

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.

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| PASTERACK® an INFINIT® brand | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET | 1 OF 1 | REV A |
|---|-----------|--|-------------|----------|
| SCALE | NONE | | | |
|   | | | | |
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | | | |
| TOLERANCES: $X = \pm .2$ [5] $XX = \pm .02$ [13] $XXX = \pm .005$ [13] | | FRACTIONS $\pm 1/32$ $\pm 1/64$ $\pm 1/128$ | | |
| CABLE LENGTH TOLERANCES: $>12 [305] \leq 60 [1524]$ $>60 [1524] \leq 120 [3048]$ $>120 [3048] \leq 300 [7620]$ $>300 [7620] \leq 600 [15240]$ | | ANGLES $\pm 1^\circ$ $\pm 1/2^\circ$ $\pm 1/4^\circ$ | | |
| | | CABLE LENGTH TOLERANCES: $>12 [305] \leq 60 [1524]$ $>60 [1524] \leq 120 [3048]$ $>120 [3048] \leq 300 [7620]$ $>300 [7620] \leq 600 [15240]$ | | |
| DESCRIPTION N MALE RIGHT ANGLE TO N MALE LOW LOSS CABLE USING LMR-240-DB COAX WITH HEATSHRINK | | | | |
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | |
| A | 53919 | DZINN | PE3C6011-HS | |
| | | 2 | | |
| | | 3 | | |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. | | | | |