



TNC Male RA to TNC Male RA Low Loss Cable  
Using LMR-400-DB Coax With Times Microwave  
Components with Double HeatShrink

**RF Cable Assemblies Technical Data Sheet**

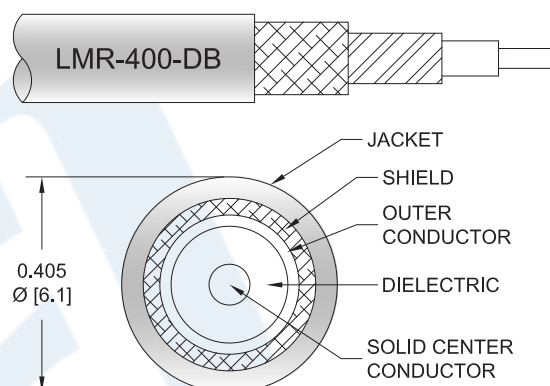
**PE3C2368/HS2**

**Configuration**

- Connector 1: TNC Male Right Angle
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-400-DB

**Features**

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C2368/HS2 TNC male right angle to TNC male right angle cable using LMR-400-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 TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-DB coax. The PE3C2368/HS2 TNC male to TNC male cable assembly operates to 6 GHz. The right angle TNC interfaces on the LMR-400-DB cable allow 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: [TNC Male RA to TNC Male RA Low Loss Cable Using LMR-400-DB Coax With Times Microwave Components with Double HeatShrink PE3C2368/HS2](#)



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**Electrical Specifications**

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 6       | GHz             |
| VSWR                          |         |              | 1.4:1   |                 |
| Velocity of Propagation       |         | 85           |         | %               |
| RF Shielding                  | 90      |              |         | dB              |
| Group Delay                   |         | 1.2 [3.94]   |         | ns/ft [ns/m]    |
| Capacitance                   |         | 23.9 [78.41] |         | pF/ft [pF/m]    |
| Inductance                    |         | 0.06 [0.2]   |         | uH/ft [uH/m]    |
| DC Resistance Inner Conductor |         | 1.39 [4.56]  |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 1.65 [5.41]  |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |              | 8,000   | Vrms            |

**Specifications by Frequency**

| Description           | F1   | F2    | F3    | F4    | F5   | Units |
|-----------------------|------|-------|-------|-------|------|-------|
| Frequency             | 0.25 | 0.5   | 1     | 2.5   | 6    | GHz   |
| Insertion Loss (Typ.) | 0.02 | 0.028 | 0.041 | 0.068 | 0.11 | dB/ft |
|                       | 0.07 | 0.09  | 0.13  | 0.22  | 0.36 | dB/m  |

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Weight 0.29 lbs [131.54 g]

**Cable**

Cable Type LMR-400-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 0.405 in [10.29 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

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**PE3C2368/HS2**

|                              |                        |
|------------------------------|------------------------|
| Repeated Minimum Bend Radius | 4 in [101.6 mm]        |
| Bending Moment               | 0.5 lbs-ft [0.68 N-m]  |
| Flat Plate Crush             | 40 lbs/in [0.71 Kg/mm] |
| Tensile Strength             | 160 lbs [72.57 Kg]     |

### Connectors

| Description                       | Connector 1          | Connector 2          |
|-----------------------------------|----------------------|----------------------|
| Type                              | TNC Male Right Angle | TNC Male Right Angle |
| Impedance                         | 50 Ohms              | 50 Ohms              |
| Contact Material and Plating      | Brass, Silver        | Brass, Silver        |
| Dielectric Type                   | PTFE                 | PTFE                 |
| Body Material and Plating         | Brass, Silver        | Brass, Silver        |
| Coupling Nut Material and Plating | Brass, Silver        | Brass, Silver        |

### 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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**PE3C2368/HS2**

**How to Order**

Part Number Configuration:

**PE3C2368/HS2**

- **xx**

**uu**

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

Example: PE3C2368/HS2-12 = 12 inches long cable  
PE3C2368/HS2-100cm = 100 cm long cable

TNC Male RA to TNC Male RA Low Loss Cable Using LMR-400-DB Coax With Times Microwave Components with Double 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/tnc-male-right-angle-to-tnc-male-low-loss-cable-using-lmr-400-db-with-double-heatshrink-pe3c2368-hs2-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.

PE3C2368/HS2 CAD Drawing

TNC Male RA to TNC Male RA Low Loss Cable Using LMR-400-DB Coax  
With Times Microwave Components with Double HeatShrink

