



## TNC Male to TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax

### RF Cable Assemblies Technical Data Sheet

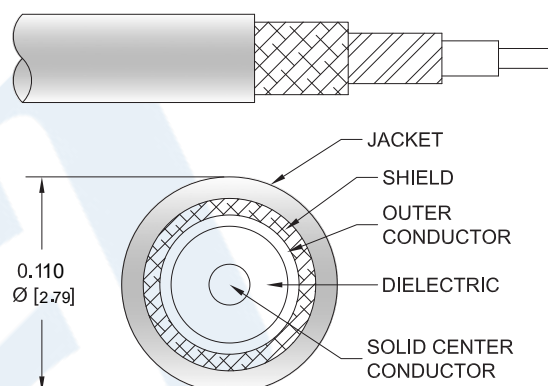
**PE3C7630**

#### Configuration

- Connector 1: TNC Male
- Connector 2: TNC Female Bulkhead
- Cable Type: LMR-100A

#### Features

- Max Frequency 1 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C7630 TNC male to TNC female bulkhead cable using LMR-100 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 female gender configuration with 50 ohm flexible LMR-100A coax. The PE3C7630 TNC male to TNC female cable assembly operates to 1 GHz. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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 to TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax PE3C7630](#)



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#### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units           |
|-------------------------------|---------|---------------|---------|-----------------|
| Frequency Range               | DC      |               | 1,000   | MHz             |
| VSWR                          |         |               | 1.4:1   |                 |
| Velocity of Propagation       |         | 66            |         | %               |
| RF Shielding                  | 90      |               |         | dB              |
| Group Delay                   |         | 1.54 [5.05]   |         | ns/ft [ns/m]    |
| Capacitance                   |         | 30.8 [101.05] |         | pF/ft [pF/m]    |
| Inductance                    |         | 0.077 [0.25]  |         | uH/ft [uH/m]    |
| DC Resistance Inner Conductor |         | 81 [265.75]   |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 9.5 [31.17]   |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |               | 2,000   | Vrms            |

#### Specifications by Frequency

| Description           | F1    | F2   | F3    | F4    | F5    | Units |
|-----------------------|-------|------|-------|-------|-------|-------|
| Frequency             | 50    | 100  | 250   | 500   | 1,000 | MHz   |
| Insertion Loss (Typ.) | 0.051 | 0.07 | 0.115 | 0.165 | 0.24  | dB/ft |
|                       | 0.17  | 0.23 | 0.38  | 0.54  | 0.79  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 for the TNC Female connector and -0.1xSQRT(fGHz) TNC Male connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.098 lbs [44.45 g]

##### Cable

Cable Type LMR-100A  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel  
Dielectric Type PE  
Number of Shields 2  
Shield Layer 1 Aluminum Tape  
Shield Layer 2 Tinned Copper Braid  
Jacket Material PVC, Black  
Jacket Diameter 0.11 in [2.79 mm]

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|                              |                        |
|------------------------------|------------------------|
| One Time Minimum Bend Radius | 0.25 in [6.35 mm]      |
| Repeated Minimum Bend Radius | 1 in [25.4 mm]         |
| Bending Moment               | 0.1 lbs-ft [0.14 N-m]  |
| Flat Plate Crush             | 10 lbs/in [0.18 Kg/mm] |
| Tensile Strength             | 15 lbs [6.8 Kg]        |

#### Connectors

| Description                        | Connector 1            | Connector 2         |
|------------------------------------|------------------------|---------------------|
| Type                               | TNC Male               | TNC Female Bulkhead |
| Specification                      |                        | MIL-STD-348A        |
| Impedance                          | 50 Ohms                | 50 Ohms             |
| Contact Material and Plating       | Beryllium Copper, Gold | Brass, Gold         |
| Contact Plating Specification      | 15 µin                 | 30 µin minimum      |
| Dielectric Type                    | Teflon                 | PTFE                |
| Body Material and Plating          | Brass, Nickel          | Brass, Nickel       |
| Body Plating Specification         | 100 µin                | 100 µin minimum     |
| Coupling Nut Material and Plating  | Brass, Nickel          |                     |
| Coupling Nut Plating Specification | 100 µin                |                     |

#### 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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**PE3C7630**

#### How to Order

Part Number Configuration:

**PE3C7630**

- **xx**

**uu**

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

Example: PE3C7630-12 = 12 inches long cable  
PE3C7630-100cm = 100 cm long cable

TNC Male to TNC Female Bulkhead Low Loss Cable Using LMR-100 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: [TNC Male to TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax PE3C7630](#)

URL: <https://www.pasternack.com/tnc-male-to-tnc-female-bulkhead-low-loss-cable-using-lmr-100-pe3c7630-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.

# PE3C7630 CAD Drawing

TNC Male to TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax

