

TNC Male to N Male Low Loss Cable Using LMR-600 Coax with Times Microwave Components, LF Solder

PE3C0232LF

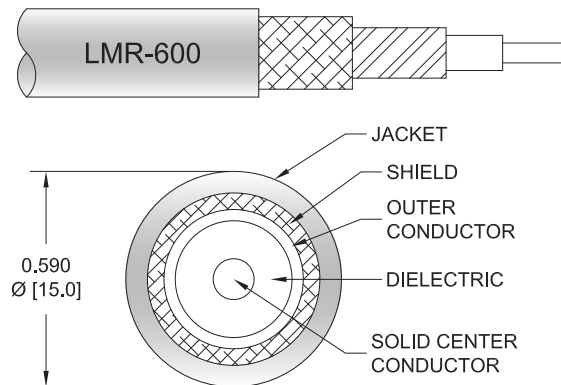


Configuration

- Connector 1: TNC Male
- Connector 2: N Male
- Cable Type: LMR-600
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0232LF TNC male to type N male cable using LMR-600 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-600 coax. The PE3C0232LF TNC male to type N male cable assembly operates to 8 GHz. 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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 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] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 1.2 [3.94] | | Ohms/1000ft [Ohms/Km] |

TNC Male to N Male Low Loss Cable Using LMR-600 Coax with Times Microwave Components, LF Solder



PE3C0232LF

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark | | | 8,000 | Vrms |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|----------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|-------|--------------|
| | | Frequency | 250 | 500 | 1000 | 2500 | 5800 | MHz | |
| PE3C0232LF | Custom Lengths Available | Insertion Loss (Typ.) | 0.012 | 0.017 | 0.026 | 0.044 | 0.073 | dB/ft | |
| | | | 0.04 | 0.06 | 0.09 | 0.15 | 0.24 | dB/m | |
| PE3C0232LF-24 | 24 inch | Insertion Loss (Typ.) | 0.23 | 0.24 | 0.26 | 0.29 | 0.35 | dB | 0.522 |
| PE3C0232LF-36 | 36 inch | Insertion Loss (Typ.) | 0.24 | 0.26 | 0.28 | 0.34 | 0.42 | dB | 0.659 |
| PE3C0232LF-48 | 48 inch | Insertion Loss (Typ.) | 0.25 | 0.27 | 0.31 | 0.38 | 0.5 | dB | 0.796 |
| PE3C0232LF-120 | 120 inch | Insertion Loss (Typ.) | 0.32 | 0.37 | 0.46 | 0.64 | 0.93 | dB | 1.618 |
| PE3C0232LF-180 | 180 inch | Insertion Loss (Typ.) | 0.38 | 0.46 | 0.59 | 0.86 | 1.3 | dB | 2.303 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

| | |
|-----------------------------|----------------|
| Loss due to Connector 1: | 0.1 dB |
| Loss due to Connector 2: | 0.1 dB |
| Base Weight: | 0.384 pounds |
| Additional Weight per Inch: | 0.01142 pounds |

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.384 lbs [174.18 g] |

Cable

| | |
|--------------------------------------|------------------------|
| Cable Type | LMR-600 |
| 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] |
| 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] |

TNC Male to N Male Low Loss Cable Using LMR-600 Coax with Times Microwave Components, LF Solder



PE3C0232LF

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------------|-------------------|
| Type | TNC Male | N Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Specification | | 50μ in. minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | | 100μ in. minimum |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Specification | | 100μ in. minimum |
| Hex Size | | 20.57 mm |
| Torque | | 44 in-lbs 4.97 Nm |

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

TNC Male to N Male Low Loss Cable Using LMR-600 Coax with Times Microwave Components, LF Solder



PE3C0232LF

Typical Performance Data

How to Order

Part Number Configuration:

PE3C0232LF **- xx** **uu**

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

Length

Base Number

Example: PE3C0232LF-12 = 12 inches long cable
 PE3C0232LF-100cm = 100 cm long cable

TNC Male to N Male Low Loss Cable Using LMR-600 Coax with Times Microwave Components, LF Solder 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 N Male Low Loss Cable Using LMR-600 Coax with Times Microwave Components, LF Solder PE3C0232LF](https://www.pasternack.com/tnc-male-to-n-male-low-loss-cable-using-lmr-600-lf-solder-pe3c0232lf-p.aspx)

URL: <https://www.pasternack.com/tnc-male-to-n-male-low-loss-cable-using-lmr-600-lf-solder-pe3c0232lf-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

TNC Male to N Male Low Loss Cable Using LMR-600 Coax with Times Microwave Components, LF Solder

