PASTERNACK®
THE ENGINEER'S RF SOURCE



# Quick Lock N Male to Quick Lock N Male Low Frequency Low Loss Cable 72 Inch Length Using PE-SF200LL Coax, RoHS

## RF Cable Assemblies Technical Data Sheet PE3TC1102-72

## Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: PE-SF200LL

## Features

- Quick connection and quick lock design
- 1.35:1 VSWR to 6 GHz
- 76% velocity of propagation (VoP) low loss coax
- 100% VSWR tested and Hi-Pot tested to 500 volts
- Very flexible and durable
- Enhanced strain relief, head duty booting
- In-stock and ready to ship

## Applications

- Production testing for Wi-Fi and LTE products
- RF developments testing
- General lab testing
- Test rack applications

### Description

Pasternack's new lines of Type-N test cables built on our PE-SF200LL coax are optimized for use up to 6 GHz. Our Quick-Lock type N connectors have reduced threads making it easier to mate and de-mate the connectors while still providing a secure threaded connection. The highly flexible low loss coax design improves the usability of the test cables reducing the strain applied to your test components and making it easier to route the cables in your test setup or equipment rack. The flexible coax cable has excellent electrical properties including low insertion loss and >100 dB of shielding effectivity. These cables are an excellent choice for production testing where speed of connection is important while maintaining good electrical performance. These 6 GHz test cables are available with Male and Female N-Type connector options and are stocked in standard lengths and available for same day shipment.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.35:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.34 [4.4] | | ns/ft [ns/m] |
| Capacitance | | 26.7 [87.6] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 500 | Vrms |
| Input Power (Peak) | | | 3 | KWatts |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Quick Lock N Male to Quick Lock N Male Low Frequency Low Loss Cable 72 Inch Length Using PE-SF200LL Coax, RoHS PE3TC1102-72

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 6 | GHz |
| Insertion Loss (Max.) | 1.2 | 1.68 | 2.28 | 3.54 | 5.7 | dB |
| Power Handling (Max.) | 300 | 230 | 150 | 90 | 40 | Watts |

Electrical Specification Notes:
Values at 25°C, sea level.

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Length | 72 in [182.88 cm] |
| Weight | 0.35 lbs [158.76 g] |

**Cable**

| | |
|---|---|
| Cable Type | PE-SF200LL |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Bare |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper |
| Jacket Material | PVC |
| Jacket Diameter | 0.185 in [4.7 mm] |
| One Time Minimum Bend Radius | 0.5 in [12.7 mm] |

**Connectors**

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | N Male | N Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Dielectric Type | PTFE | PTFE |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |

### Compliance Certifications (visit www.Pasternack.com for current document)

| | |
|---|---|
| RoHS Compliant | Yes |

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## Plotted and Other Data

Notes:

- Values at 25°C, sea level.

## How to Order

Part Number Configuration: **PE3TC1102 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3TC1102 — Base Number

Example: PE3TC1102-12 = 12 inches long cable
PE3TC1102-100cm = 100 cm long cable

Quick Lock N Male to Quick Lock N Male Low Frequency Low Loss Cable 72 Inch Length Using PE-SF200LL Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/n-male-n-male-pe-sf200ll-cable-assembly-pe3tc1102-72-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.

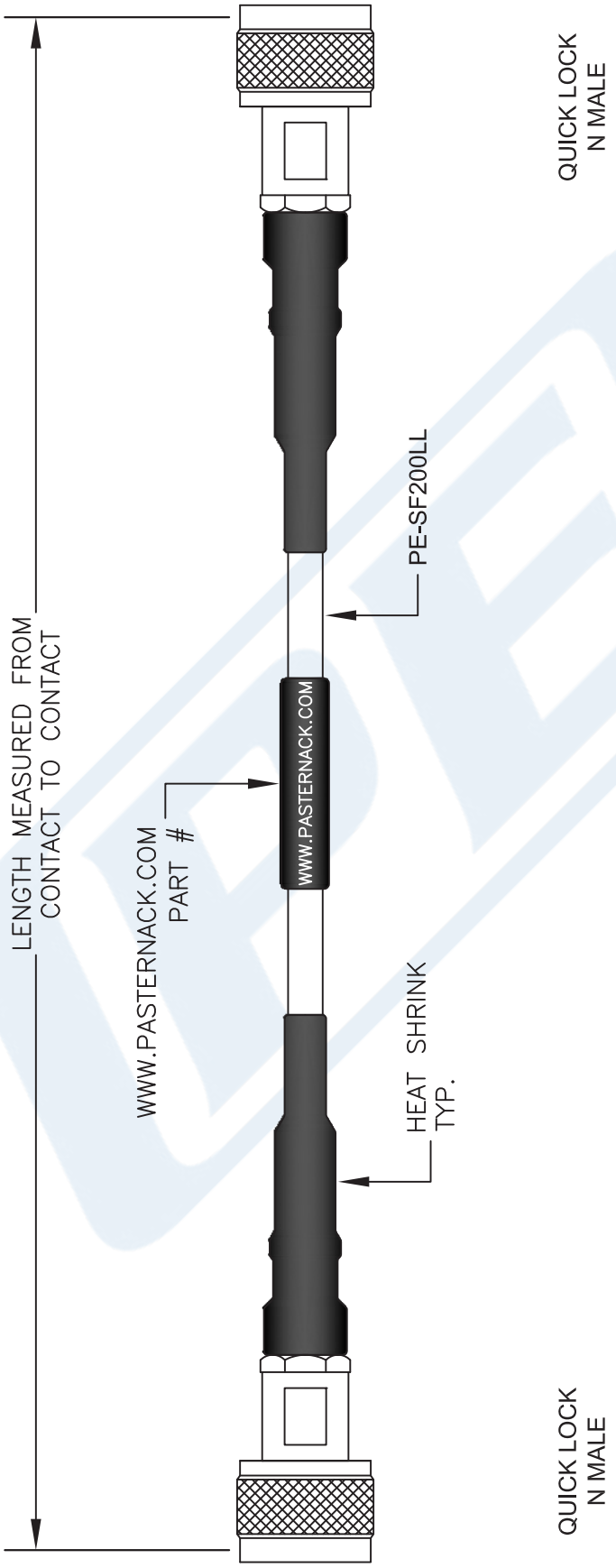
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# PE3TC1102-72 CAD Drawing

Quick Lock N Male to Quick Lock N Male Low Frequency Low Loss Cable 72 Inch Length Using PE-SF200LL Coax, RoHS




NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS ± 2%

| CAD FILE | SCALE | SIZE |
|---|---|---|
| 022516 | N/A | A |

DWG TITLE: **PE3TC1102**

FSCM NO. 53919

2233


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