



SMA Male to TNC Male Cable Using PE-SR401AL Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE34420LF

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: PE-SR401AL-STRAIGHT

Features

- Max Frequency 11 GHz
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE34420LF SMA male to TNC male cable using PE-SR401AL coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMA to TNC cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-SR401AL-STRAIGHT coax. The PE34420LF SMA male to TNC male cable assembly operates to 11 GHz.

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 | | 11 | GHz |
| Velocity of Propagation | | 69.5 | | % |
| Capacitance | | 29.6 [97.11] | | pF/ft [pF/m] |
| Dielectric Withstanding Voltage (AC) | | | 7,500 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-------|------|------|------|-------|
| Frequency | 0.5 | 1 | 2.5 | 5 | 11 | GHz |
| Insertion Loss (Typ.) | 0.05 | 0.075 | 0.13 | 0.22 | 0.35 | dB/ft |
| | 0.16 | 0.25 | 0.43 | 0.72 | 1.15 | dB/m |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Male Cable Using PE-SR401AL Coax , LF Solder PE34420LF](#)



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| | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|---|
| Power Handling (Max.) | 962 | 661 | 265 | 174 | 100 | W |
|-----------------------|-----|-----|-----|-----|-----|---|

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.21 lbs [95.25 g]

Cable

| | |
|--------------------------------------|---------------------|
| Cable Type | PE-SR401AL-STRAIGHT |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Tinned Aluminum |
| Jacket Diameter | 0.25 in [6.35 mm] |

One Time Minimum Bend Radius 0.25 in [6.35 mm]

Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|---------------|---------------|
| Type | SMA Male | TNC Male |
| Specification | | MIL-C-39012 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | | Gold |
| Contact Plating Specification | | MIL-G-45204 |
| Dielectric Type | | Teflon |
| Body Material and Plating | Brass, Nickel | Brass, Gold |
| Body Plating Specification | | MIL-G-45204 |
| Coupling Nut Material and Plating | | Brass, Nickel |

Mechanical Specification Notes:

Cable assemblies that are 60 inches or less use straight coax, greater than 60 inches use coiled coax

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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RF Cable Assemblies Technical Data Sheet

PE34420LF

How to Order

Part Number Configuration:

PE34420LF

- **xx**

uu

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

Example: PE34420LF-12 = 12 inches long cable
PE34420LF-100cm = 100 cm long cable

SMA Male to TNC Male Cable Using PE-SR401AL Coax , 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.

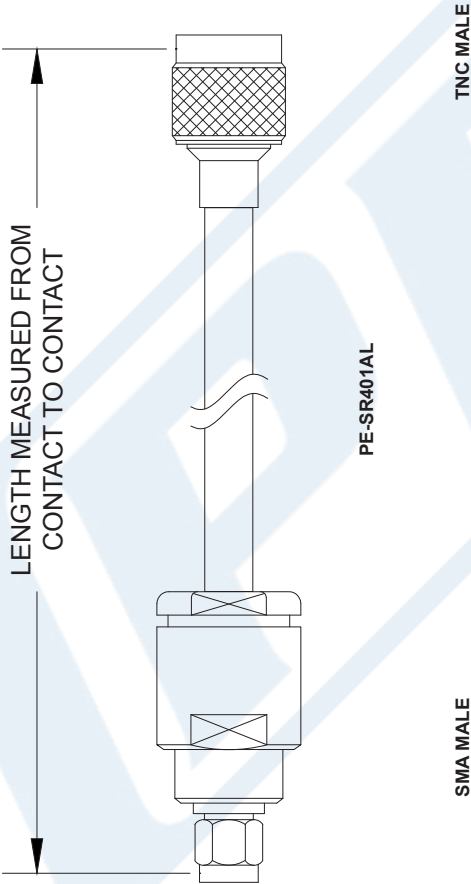
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Male Cable Using PE-SR401AL Coax , LF Solder PE34420LF](#)

URL: <https://www.pasternack.com/sma-male-tnc-male-pe-sr401al-cable-assembly-pe34420lf-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.

PE34420LF CAD Drawing

SMA Male to TNC Male Cable Using PE-SR401AL Coax , LF Solder



| How To Order | | | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|---|--|---|---|---|---|--|
| <div>Part Number Configuration</div> <div>PE3 <div>zzz</div> <div>yy</div> - <div>xx</div> <div>uu</div></div> <div>00 - 99999</div> <div>LF = RoHS Compliant</div> <div>< Blank > = Standard</div> <div>Note: LF applies only to RF cables</div> | | <div>Examples</div> <div>PE3000LF-100</div> <div>PE3000-100</div> <div>PE3000LF-100CM</div> <div>PE3000-100CM</div> | <div>-12</div> <div>-24</div> <div>-36</div> <div>-48</div> <div>-60</div> <div>-xx</div> | <div>12"</div> <div>24"</div> <div>36"</div> <div>48"</div> <div>60"</div> <div>Custom Length</div> | <div>-25CM</div> <div>-50CM</div> <div>-75CM</div> <div>-100CM</div> <div>-125CM</div> <div>-xxCM</div> | <div>25Cm</div> <div>50Cm</div> <div>75Cm</div> <div>100Cm</div> <div>125Cm</div> <div>Custom Length</div> |
| | | | | | | |
| | | | | | | |
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DWG TITLE

PE34420LF

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 ± 1.5% OR 3/8", WHICHEVER IS GREATER.

FSCM NO. 53919

CAD FILE 41613

SCALE N/A

SIZE A

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PE34420LF REV 1.2

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