



SMA Male to N Male Cable Using PE-SR401AL Coax

RF Cable Assemblies Technical Data Sheet

PE34259

Configuration

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

Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE34259 SMA male to type N 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 type N cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-SR401AL-STRAIGHT coax. The PE34259 SMA male to type N male cable assembly operates to 18 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 | | 18 | 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 | 0.4 | 1 | 5 | 10 | 18 | GHz |
| Insertion Loss (Typ.) | 4.5 | 7.5 | 22 | 33 | 48 | dB/ft |
| | 14.76 | 24.61 | 72.18 | 108.27 | 157.48 | 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 N Male Cable Using PE-SR401AL Coax PE34259](#)



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

Mechanical Specifications

Cable Assembly

Diameter 0.827 in [21.01 mm]

Weight 0.148 lbs [67.13 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 | N Male |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Gold | Brass, Gold |
| Contact Plating Specification | | 30μ in. minimum |
| Dielectric Type | PTFE | Teflon |
| Body Material and Plating | Brass, Gold | Brass, Gold |
| Body Plating Specification | | 3μ in. minimum |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Plating Specification | | 100μ in. minimum |
| Hex Size | 5/16 in. | |
| Torque | 5 in-lbs [0.57 Nm] | |

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

PE34259

- **xx**

uu

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

Example: PE34259-12 = 12 inches long cable
PE34259-100cm = 100 cm long cable

SMA Male to N Male Cable Using PE-SR401AL 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: [SMA Male to N Male Cable Using PE-SR401AL Coax PE34259](#)

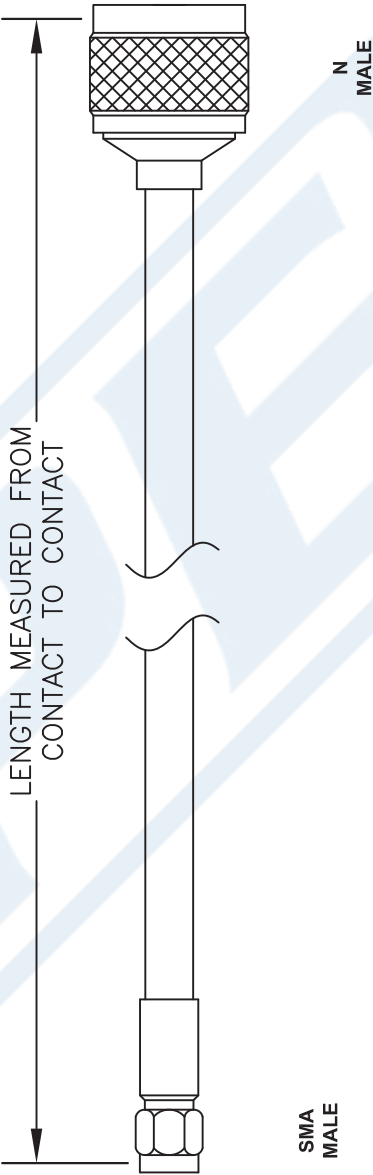
URL: <https://www.pasternack.com/sma-male-n-male-pe-sr401al-cable-assembly-pe34259-p.aspx>

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.

PE34259 CAD Drawing

SMA Male to N Male Cable Using PE-SR401AL Coax

| Standard Lengths | |
|------------------|-------------------------|
| -12 | 12" |
| -24 | 24" |
| -36 | 36" |
| -48 | 48" |
| -60 | 60" |
| -XXX | Custom Length in Inches |





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| DWG TITLE | |
|------------|--|
| PE34259-XX | |

| 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 $\pm 1.5\%$ OR $3/8"$, WHICHEVER IS GREATER. | | | | |
| REV. - | FSCM NO. 53919 | CAD FILE 012508 | SCALE N/A | SIZE A |
| | | | | 127 |