



## 3.5mm Male to SMA Male Cable 24 Inch Length Using RG402 Coax with HeatShrink, LF Solder

### RF Cable Assemblies Technical Data Sheet

PE3W05034LF/HS-24

#### Configuration

- Connector 1: 3.5mm Male
- Connector 2: SMA Male
- Cable Type: RG402

#### Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity
- 500 Mating Cycles

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05034LF/HS-24 3.5mm male to SMA male 24 inch cable using RG402 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 3.5mm to SMA cable assembly has a male to male gender configuration with 50 ohm semi-rigid RG402 coax. The PE3W05034LF/HS-24 3.5mm male to SMA 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   |
| VSWR                                 |         |         | 1.45:1  |       |
| Velocity of Propagation              |         | 69.5    |         | %     |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 1    | 2    | 4.5  | 9    | 18   | GHz   |
| Insertion Loss (Max.) | 0.44 | 0.48 | 0.56 | 0.72 | 1.03 | dB    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male to SMA Male Cable 24 Inch Length Using RG402 Coax with HeatShrink, LF Solder PE3W05034LF/HS-24](#)



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#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length\* 24 in [609.6 mm]  
Diameter 0.32 in [8.13 mm]

##### Cable

Cable Type RG402  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Outer Conductor Material and Plating Copper

Repeated Minimum Bend Radius 0.25 in [6.35 mm]

#### Connectors

| Description                        | Connector 1                        | Connector 2           |
|------------------------------------|------------------------------------|-----------------------|
| Type                               | 3.5mm Male                         | SMA Male              |
| Specification                      |                                    | MIL-STD-348A          |
| Impedance                          | 50 Ohms                            | 50 Ohms               |
| Mating Cycles                      | 500                                | 500                   |
| Contact Material and Plating       | Beryllium Copper, Gold over Nickel | Brass, Gold           |
| Contact Plating Specification      | 50 µin minimum                     | 30 µin minimum        |
| Dielectric Type                    | PCTFE                              |                       |
| Body Material and Plating          | Passivated Stainless Steel         | Stainless Steel, Gold |
| Body Plating Specification         | SAE-AMS-2700                       |                       |
| Coupling Nut Material and Plating  | Passivated Stainless Steel         | Brass, Nickel         |
| Coupling Nut Plating Specification | SAE-AMS-2700                       |                       |
| Hex Size                           | 5/16 inch                          | 5/16 inch             |
| Torque                             | 8 in-lbs [0.9 Nm]                  | 3 in-lbs [0.34 Nm]    |

#### Mechanical Specification Notes:

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

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**PE3W05034LF/HS-24**

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +125 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**PE3W05034LF/HS - xx**

**uu**

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

Example: PE3W05034LF/HS-12 = 12 inches long cable  
PE3W05034LF/HS-100cm = 100 cm long cable

3.5mm Male to SMA Male Cable 24 Inch Length Using RG402 Coax with HeatShrink, 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.

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URL: <https://www.pasternack.com/3.5mm-male-sma-male-rg402u-cable-assembly-pe3w05034lf-hs-24-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.

**PE3W05034LF/HS-24 CAD Drawing**  
3.5mm Male to SMA Male Cable 24 Inch Length Using  
RG402 Coax with HeatShrink, LF Solder

