



3.5mm Male to SMA Male Cable 48 Inch Length Using RG402 Coax with HeatShrink, LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W05034LF/HS-48

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-48 3.5mm male to SMA male 48 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-48 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.)	0.68	0.75	0.92	1.24	1.86	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 48 Inch Length Using RG402 Coax with HeatShrink, LF Solder PE3W05034LF/HS-48](#)



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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* 48 in [121.92 cm]
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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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 48 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-48-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-48 CAD Drawing
3.5mm Male to SMA Male Cable 48 Inch Length Using
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