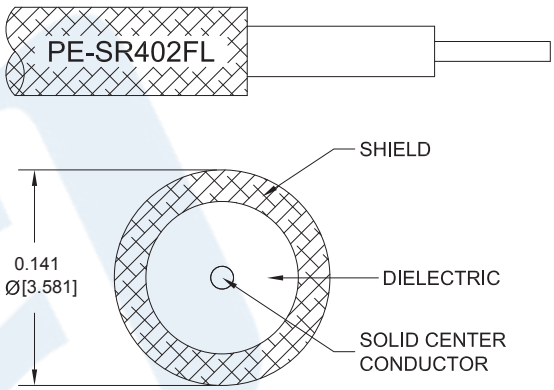
PASTERNACK®
THE ENGINEER'S RF SOURCE

3.5mm Male to 3.5mm Female Cable 48 Inch Length Using PE-SR402FL Coax

RF Cable Assemblies Technical Data Sheet PE3W03922-48

Configuration

- Connector 1: 3.5mm Male
- Connector 2: 3.5mm Female
- Cable Type: PE-SR402FL



Features

- Max Frequency 20 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03922-48 3.5mm male to 3.5mm female 48 inch cable using PE-SR402FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack 3.5mm to 3.5mm cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FL coax. The PE3W03922-48 3.5mm male to 3.5mm female cable assembly operates to 20 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		20	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ω/1000ft [Ω/Km]

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 3.5mm Female Cable 48 Inch Length Using PE-SR402FL Coax PE3W03922-48

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	2.5	5	10	18	20	GHz
Insertion Loss (Max.)	0.94	1.36	2	2.8	3	dB

Electrical Specification Notes:
The insertion data above is based on the performance specifications of the coax used 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	0.351 in [8.92 mm]

Cable

Cable Type	PE-SR402FL
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 Copper Braid
Repeated Minimum Bend Radius	0.625 in [15.88 mm]

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Connectors

Description	Connector 1	Connector 2
Type	3.5mm Male	3.5mm Female
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PCTFE	PCTFE
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	

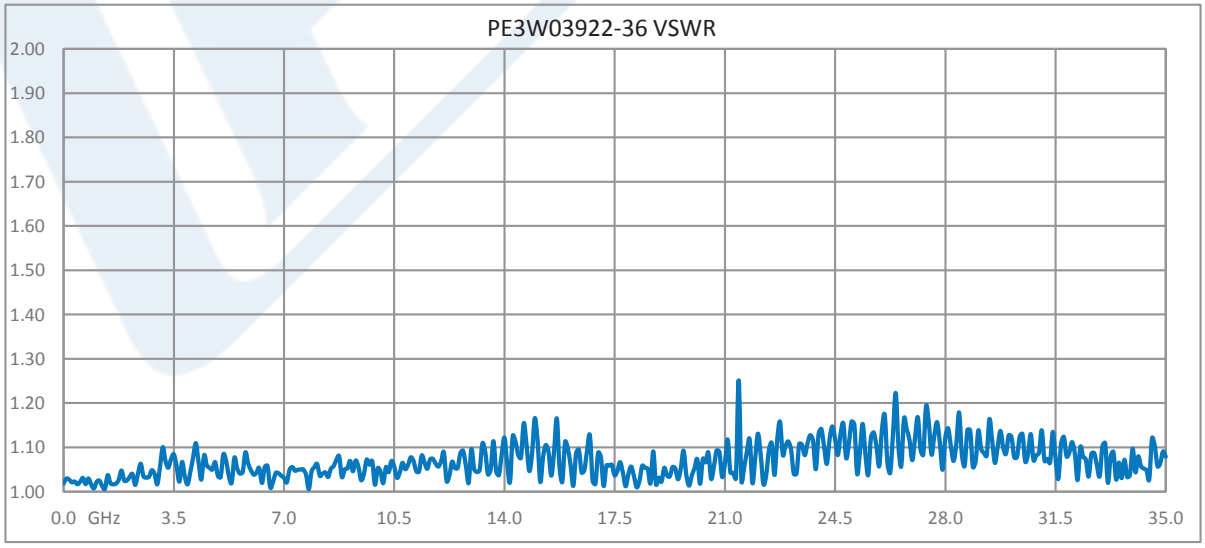
Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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How to Order

Part Number Configuration: **PE3W03922 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W03922 — Base Number

Example: PE3W03922-12 = 12 inches long cable
PE3W03922-100cm = 100 cm long cable

3.5mm Male to 3.5mm Female Cable 48 Inch Length Using PE-SR402FL 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: 3.5mm Male to 3.5mm Female Cable 48 Inch Length Using PE-SR402FL Coax PE3W03922-48

URL: https://www.pasternack.com/3.5mm-male-3.5mm-female-pe-sr402fl-cable-assembly-pe3w03922-48-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.

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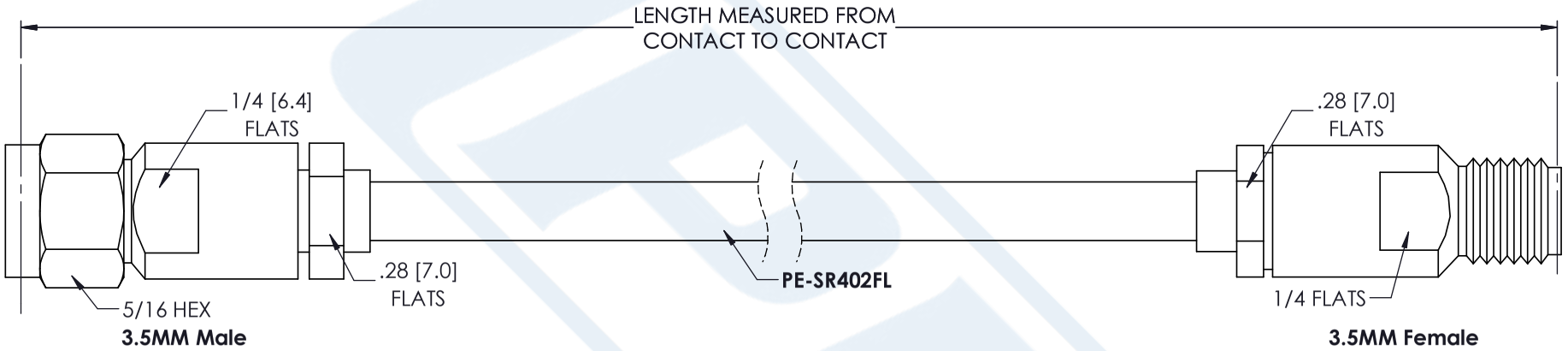
PE3W03922-48 CAD Drawing

3.5mm Male to 3.5mm Female Cable 48 Inch Length Using PE-SR402FL Coax



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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DWG TITLE
PE3W03922

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].

CAGE CODE 53919	CAD FILE 09/26/18	SCALE N/A	SIZE A	CN2379