



N&H Technology GmbH

POGO PINS

System supplier for HMI operating units

ENGINEERING | PRODUCTION | LOGISTICS

COMPLETE SOLUTIONS & ASSEMBLIES

KEYBOARDS & BUTTONS

CABLE ASSEMBLIES & CONNECTORS

MOLDED PARTS & TOOLMAKING



2001

Foundation of N&H Technology GmbH with 4 employees in Krefeld.

2012

Construction of a new company building in Willich with its own test laboratory and logistics warehouse.

2013

Opening of the N&H office in Shanghai.

2021

New warehouse extension with 470 additional pallet spaces.

2023

Majority shareholding in SNT Technology Co., Ltd. Own production of input solutions.

2025

51 employees, 13 of whom hold a university degree.



Your expert for input devices since 2001.



Over 5,000 completed customer projects



Long-standing partnerships with leading companies from various industries.



Own development & exclusive production for maximum flexibility



Certified processes for the highest quality.





ABOUT N&H TECHNOLOGY

Since our founding in 2001, N&H Technology GmbH has established itself as a leading full-service provider of custom electromechanical assemblies and components.

Our focus is on the development and manufacturing of custom input devices (HMIs) that meet the highest standards of quality and efficiency.

We offer comprehensive manufacturing solutions through an established supplier network in Asia, which is project-specific coordinated in collaboration with our subsidiary in Shanghai.

Our partners meet industry-specific standards such as DIN ISO 9001, ISO 14001, IATF 16949, and DIN ISO 13485. Our own testing and inspection laboratory at our location in Willich complements our strict quality control processes.

In 2023, we expanded our expertise in the field of membrane keyboards through the majority acquisition of the highly specialized FoShan SNT Electronics Technology Co., Ltd. in China. This allows us to address our customers' individual requirements even more precisely and offer high-quality solutions.

Our customer base includes leading companies from the automotive, medical technology, telecommunications, industrial automation, building control systems, and other industries. Long-standing partnerships and a high level of customer satisfaction distinguish us.

Our employees are the heart of N&H Technology and the key to our success. We nurture our international, family-oriented team and create an environment that strengthens personal development, innovation, and collaboration.

N&H Technology stands for innovation, quality, and reliability – your trusted partner for electromechanical solutions.



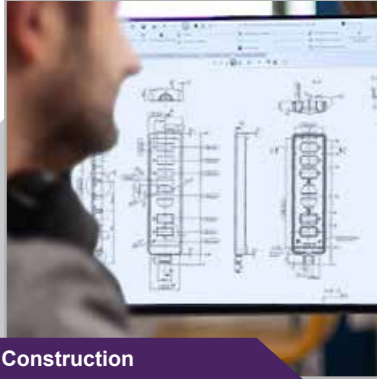
Modernity meets history

Since the turn of the millennium, the site of the former Becker steelworks has been transformed into a diverse business park where carefully restored monuments alternate with modern architecture.

WHAT WE DO



Engineering support



Construction



Procurement & Production



Buffer storage (option)



Logistical processing



Assembly

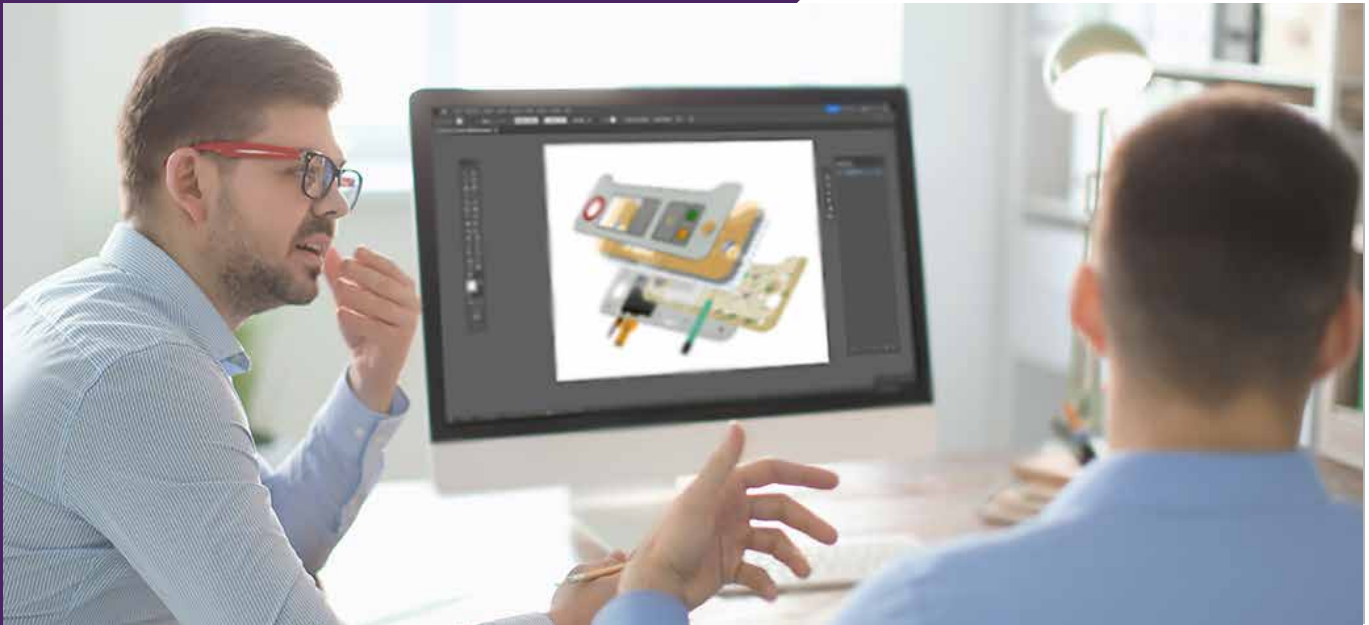


Product



We develop and manufacture customized products for various industries and provide our customers with comprehensive support from the initial idea through to series production. Our portfolio includes electromechanical input units and all components of electronic products, including housings, displays, keyboards and cable assemblies.

Our services range from advisory development and feasibility studies to cost estimates, prototype construction and material selection, right through to cost optimization and product design. We also create technical drawings and, if required, take on the complete design.



WHAT WE OFFER



Technical support

- Support from the concept phase to series development
Feasibility studies
- Suggestions for improvement
- Advice on material selection and production methods
- Development of cost reduction options



Development & design

- Development of components, molded parts, assemblies and complete solutions
- Sketching, conception and preliminary design
- Design in 3D / 2D CAD
- Optimization of existing customer templates
- Presentation of product views in the form of realistic 3D renderings
- Creation of production documents such as technical drawings and parts lists
- Prototype construction using 3D printing & silicone casting



N&H Laboratories

- Project-specific final testing
- Electromechanical tests
- Optical / acoustic tests
- Material tests
- Surface resistance, volume resistance, conductivity measurements
- Technical problem analysis, also for third-party products



Purchasing

- Outsourcing options for your supply chain
- Procurement of third-party components



Logistics

- Complete logistics handling
- Buffer storage possible at N&H Technology in Willich / Germany

COMPLETE SOLUTION

A typical product example is a customer-specific input device which, in addition to the keyboard element, includes a housing, a display and the complete connection technology, including cable assembly.



Customized components

KEYPADS

- Silicone Rubber Keypad
- Membrane Switch
- Capacitive Keypads
- Touch-Systems

BUTTONS & SWITCHES

- Pushbuttons
- Piezo Buttons
- Status/Signal Lamps
- Microswitches

CABLE ASSEMBLY

- Cable harnesses
- Data cables
- Coaxial cables
- Special cables
- Single cables

CONNECTORS

- Magnetic connectors
- Spring contact plugs
- Special connectors

PCB

- Flex & Rigid Circuits
- Single layer, double layer, multilayer

FURTHER

- Protective bags
- Battery contacts



Many standard components can be selected and requested directly from our online catalog!

katalog.nh-technology.de

Standard Components

- Spring contacts / Pogo pins
- Connectors
- High current connectors
- Stainless steel keyboards
- Hygienic keyboards
- Microswitches
- Pushbuttons, Piezo Buttons
- Status Lamps
- LC-Displays (TFT)
- Buzzer, Transducer
- Speaker, Microphones

POGO PINS

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Customized moulded parts

PLASTICS

- Precision & large parts
- Single and multiple injection molding

RUBBER

- Protective covers
- O-rings, seals
- Precision parts

2K / 3K PARTS

METAL

- Heat sinks
- Die-cast parts
- Stamped, turned and milled parts
- Deep-drawn parts
- Battery contacts

GLASS

- Front Glasses
- Molded Glass Panes



DESIGN GUIDE

POGO PINS

Wir bieten Ihnen ein umfangreiches Sortiment an hochwertigen Standard-Federkontakten und Batterieladekontakten, die sich für eine Vielzahl industrieller und elektronischer Anwendungen eignen.



ABOUT SPRING CONTACTS

Spring contacts - also known as pogo pins or spring loaded contacts (SLC) - are a proven solution for reliable contacting of uneven or moving surfaces. The connection is made by a spring-loaded plunger, which ensures constant electrical contact when pressed.

High functional reliability and a long service life make spring contacts particularly suitable for power and data transmission.

- Standard versions cover rated currents from 1A to 2A.
- High-current versions up to 15A per contact.
- Customized solutions enable even higher current carrying capacities or special adaptations to individual requirements.

In our online catalog, you will find over 300 standard spring contacts and connectors that you can request quickly and easily: katalog.nh-technology.de

The smallest spring contact has a length of 1mm, the largest 23mm. The spring force varies depending on the type between 50 - 400g. In addition to individual pins, we also offer a number of connectors.



INDIVIDUAL SPRING CONTACTS

Individual adaptations are possible at any time to optimally meet your specific requirements.

These include:

- Adjustment of rated current and spring force
- Adaptation of the surface coating
- Modification of the terminal shape
- Customer-specific connector configurations

Our engineering team supports you from development to series production and offers you a wide selection of materials, special coatings and individual solutions - always perfectly tailored to your application.



Various connection types



Individual connection shape and spring force (900g)



ADVANTAGES

- high durability
- adjustable and measurable spring force
- space-saving – small grid size possible
- predominantly suitable for SMD assembly
- good performance in high-frequency applications
- RoHS compliant and halogen-free



APPLICATION

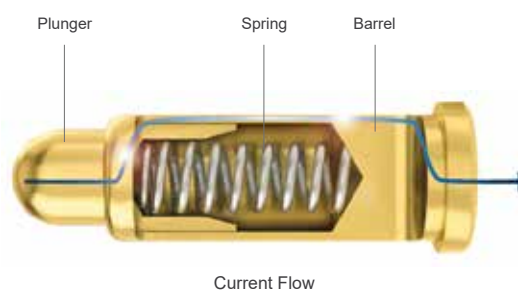
Spring contacts impress with their ability to compensate for unevenness and reliably bridge height differences. They ensure a secure, stable and long-lasting connection even when subjected to vibrations, mechanical loads and frequent mating cycles.

Thanks to these properties, spring contacts are widely used in power and data transmission, particularly in the following areas:

- Battery charging stations and battery compartments
- Communication devices such as smartphones, tablets
- Housing earthing and contacting of shielding plates
- Plug connections for vibrating or moving components

CONSTRUCTION

A spring contact probe consists of three key components: a plunger, a spring and a barrel. The electrical current flows from the plunger via the edge of the pin sleeve to the contact. The contact pressure is largely dependent on the spring.



ELECTRICAL SPECIFICATIONS

Rated Current:

1A / 2A for the standard version

up to max. 15A due to special design

Contact resistance:

< 100mΩ (depending on the design)



POGO PINS

TYPES

Flat Type (SMT)

Length: 1.0 - 21.5 mm
Spring force: 25g - 400g
Standard plug with up to 6 pins



Plug-In Type (THT)

Length: 1.39 - 19.0 mm
Spring force: 35g - 500g
Standard connector with up to 14 pins



Right Angle Type (SMT)

Length: 4.9 - 5.6 mm
Spring force: 80g - 120g
Standard plug with up to 4 pins



Double Ended Pin

Spring contact with two spring-loaded plungers, for contacting e.g. two or more PCBs.

Length: 5.8 - 17.3mm
Spring force: 100g - 500g



Rolling Pin 360°

While a regular pogo pin is designed for vertical movement, there is a special design for lateral movement. An integrated ball in the pin tip ensures continuous contact, even with 360° rotation.



Length: 3.5 - 15.0 mm
Spring force: 60g - 150g
Standard connector with up to 3 pins

Screw Pin

Pogo Pin with an integrated screw thread perfectly meet the requirements of miniaturization and enable the simultaneous transmission of power and signals.

Integration is possible on a customer-specific basis for spring contacts from a plunger length of 3.5 mm.



Bending Type

The right-angle pogo pin with a bent end piece offers more space-saving options when mounting on a printed circuit board.

Length: 11.5 - 21.5 mm
Spring force: 35g - 120g
Standard plug with up to 8 pins





DESIGN



Back Drill Design - Bias Design - 4P Ball Design - 4P Cap Design - Rolling Pin - Screw Pin - Right Angle - Bending Type

BACK-DRILL

For small spring contacts with a length of less than 3.5 mm, the back-drill design is usually used. To achieve the desired spring force, the inserted spring is longer than the hollow plunger.

BIAS-DESIGN

The bias design is used for almost all spring contact probes with a length of 3.5 mm or more. In this design, the plunger is beveled at an angle of up to 18° at its end and installed in the probe sleeve in this way. This guarantees 100% contact between the plunger and the probe sleeve.

4P-DESIGN

For high demands on current carrying capacity (>3A) and vibration resistance, the bias design is extended to include the 4P design.

In this case, a fourth component – a stainless steel ball – is added to the existing components of piston, pressure spring and sleeve.

The ball is integrated between the piston and spring and provides higher lateral forces to prevent the pressure spring from overheating at high currents.

For high-current applications from 5A to a maximum of 13A, a cap is used as an alternative in the 4P design. In addition, the sleeve of the plunger is reinforced in these cases to withstand the increased mechanical and thermal stresses. The standard sizes of the 4P design are between 5.4 mm and 15.0 mm in length.



Back-Drill Design
Length: ~2.5 mm
Current: 1A

Bias-Design
Length: ~3.5 mm
Current: 2A

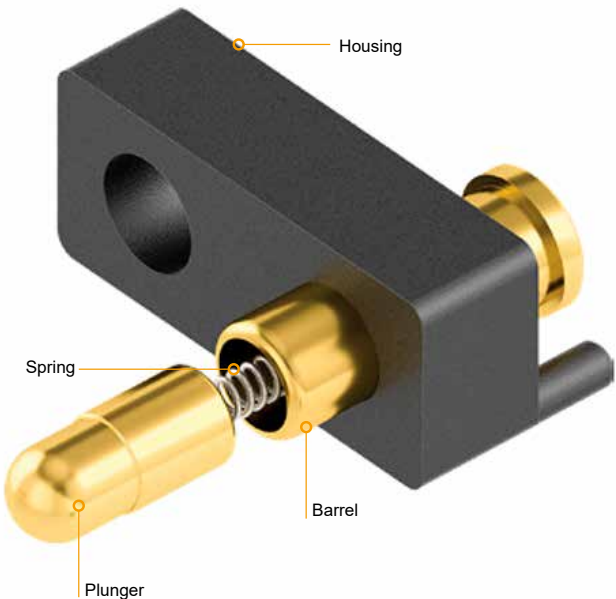
4P-Design (Ball / Cap)
Length: ~ 4.5 mm
Current: 3A - 5A / 5A-13A

POGO PINS

MATERIAL

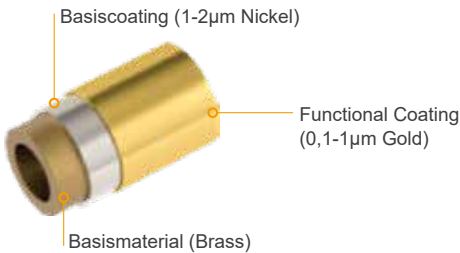
As standard, the piston and the pin sleeve are made of high-quality brass, while the springs are made of stainless steel. Of course, we also offer other materials such as beryllium copper or phosphor bronze.

Part	Materials (*Standard)
Plunger	Brass* Beryllium Copper, Phosphor-Bronze, SK4 - Steel
Barrel	Brass* Beryllium Copper, Phosphor-Bronze
Spring	Stainless Steel*
Housing	Polyoxyethylen* HTN, LCP, PBT, PA10T



COATING

The gold plating of the spring contacts not only ensures excellent electrical conductivity, but also protects against corrosion and oxidation. The plunger and the pin sleeve are typically coated twice, first with nickel (1-2µm) and then with gold (0.1-1µm). Other coatings are also possible for special applications, as is partial coating of individual components.



Plating	Hardness (HV)	Function	Color
Gold	200	Low resistance	gold
Super AP	400	Superior corrosion resistance, low electrical resistance	silver
Nickel	150 - 200	Low cost, corrosion resistant	silver
Palladium-Nickel	330 - 380	Improved signal transmission	silver
Red Brass (CuSnZn)	600	Replace Nickel	silver
Palladium Cobalt	450 - 600	Replace Pd-Ni	silver
Palladium Cobalt	600 - 800	Black color requirement	black



SUPER AP COATING

The Super AP coating is extremely resistant to electrolytic or galvanic corrosion while maintaining very low resistance.

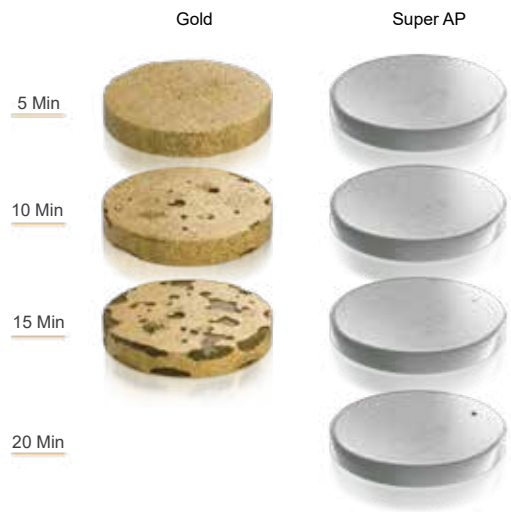
This makes it particularly suitable for all electrical applications. Compared to a gold coating, the Super AP coating is:

- 2 x more resistant to salt water
- 5 x resistant to transpiration
- 30 x more resistant to electrolysis
- Nickel-Free



Comparsion Coatings	Testing Standard	Gold (50u")	Super AP
Nickel Release	EN 12472:2005 A1:2009	Nickel-contain- ing process	Nickel-free process
Impedance	EIA-364-23	< 50 mΩ	< 50 mΩ
Salt Spray Resistance	EIA-362-26	96 HR	168 HR
Artificial Sweat Resistance	ISO-3160	96 HR	168 HR
Surface Hardness	ISO 6507-1:2005	200 HV	400 HV
Electrolysis Resistance Time	1mA, 5V, Pitch=0.60mm	< 1 Min	60 Min

Example: Electrolysis Resistance Time



INFO

GALVANIC CORROSION

Galvanic corrosion occurs, when two different metals of different nobility get into close contact in the presence of an electrolyte such as water. Dissimilar metals have different electrode potentials which cause one of the metals to act as a cathode and the other as an anode. The resulting current flow is the main cause for the dissolve of the lesser noble (anode) metal. Acid or alkali environments, for example on human skin, can accelerate galvanic corrosion significantly and attack even metals such as gold and platin.

POGO PINS

CONNECTOR

Our spring-contact plug connectors provide a flexible and reliable connection solution for a wide range of applications.



Multiple spring contact probes can be combined in a plastic housing to create a customized connector – ideal for demanding industrial and electronic applications.

In addition to a wide range of proven standard solutions, we develop and manufacture individual connectors that are precisely tailored to your requirements.

We realize customized solutions with regard to:

- Grid spacing
- Number of pins
- Housing dimensions and shape

Thanks to a variety of connection types, our spring contact connectors are suitable for various mounting options on SMD-mountable printed circuit boards.

Our spring contact connectors are available in a variety of connection types, making them ideal for a range of mounting options on PCBs that can be fitted with SMD components. We also offer precise cable assembly.

The wide range of spring contacts allows for:

- Compact connectors for space-critical applications
- Waterproof solutions with IPx7 or IPx8 protection class
- High-frequency applications
- High-current applications
- Magnetic connectors



Waterproof solutions using O-rings, sealing and overmolding



MAGNETIC CONNECTOR

We realize magnetic plug connectors including cable assembly for all sectors and industries. We are happy to take on the design and development.

Depending on the material and internal structure of the spring contact pin, currents of up to 15A per pin are possible. The implementation of magnets ensures a self-guiding, shock- and vibration-resistant connection between the plug and the device. The polarity of the magnets prevents incorrect connection, and the magnetic force can be customized using different magnets.

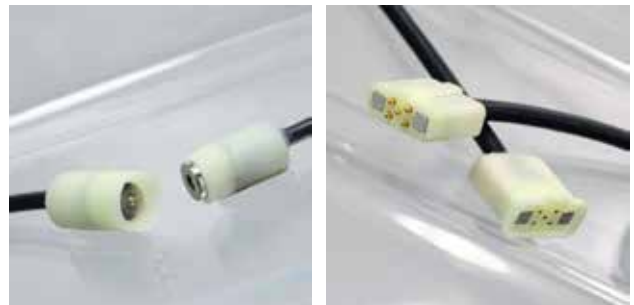
For demanding installation situations, protection classes up to IPx7 are possible. To achieve this, the plugs are equipped with an O-ring seal or are directly overmolded with plastic and/or sealed with elastomer materials.

SERVICE

To develop your customized connector solution, we just need some basic information. Based on this information, we take care of the entire implementation – from planning and development to production.

Our connector systems not only offer you innovative technology, but also an economical and reliable solution for your specific application.

PROTOTYPES



Using 3D printing and manual finishing, we create individual magnetic plugs as prototypes for customer-specific applications.

This mini-series of up to 20 samples enables initial assembly trials and testing of magnetic force.

This method offers the following advantages:

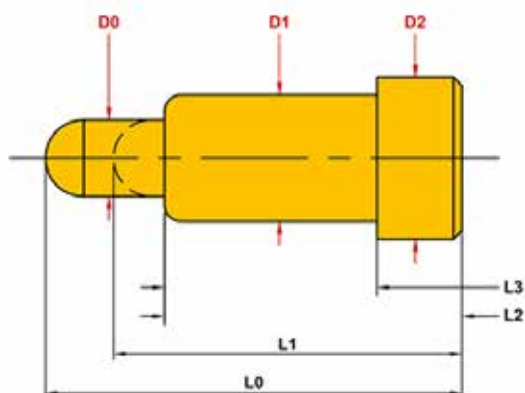
- **Early validation:**
Necessary changes can be identified and implemented as early as the design phase.
- **High flexibility:**
Prototypes can be quickly and cost-effectively adapted.
- **Smooth transition to series production:**
As soon as the prototype meets the requirements, the tooling can be created for cost-effective and reliable manufacturing.

POGO PINS

FLAT TYPE SINGLE PINS

Dimension: mm / *SF: Spring Force (g) ±20%

PIN	SF*	L0	L1	L2	L3	D0	D1	D2
SVPC-F-CS97175M7	25	1,0	0,8	0,78	0,75	0,4	0,6	0,6
SVPC-F-CS97175M2	25	1,0	0,8	0,75	0,68	0,4	0,6	0,8
SVPC-F-P6925FP03A	35	1,25	1,15	0,85	0,85	0,5	0,83	0,9
SVPC-F-F3366AA01	60	1,6	1,2	1,1	0,9	0,77	1,25	1,4
SVPC-F-H199M0	100	2,1	1,5	1,45	1,25	0,8	1,25	1,4
SVPC-F-H126M0	80	2,2	1,75	1,55	0,75	1	1,48	2,2
SVPC-F-N018M9	80	2,2	1,75	1,55	1,15	1	1,51	1,8
SVPC-F-H199M2	30	2,3	2,18	1,5	1,2	0,8	1,25	1,4
SVPC-F-H027M0	40	2,5	1,95	1,55	1,2	1	1,4	1,6
SVPC-F-H062M0	100	2,6	2	1,6	1,3	0,9	1,47	2
SVPC-F-H192M1	100	2,6	2	1,6	1,05	0,9	1,47	1,62
SVPC-F-H265M0	50	2,63	2,43	2,23	2,23	0,4	0,7	0,7
SVPC-F-F651AA01	100	2,8	2	1,9	1,5	0,9	1,5	2
SVPC-F-F030AA00	30	2,95	2,8	1,8	1,82	0,8	1,25	1,7
SVPC-F-N080M1	55	2,95	2,7	2,6	2,6	1	1,5	N
SVPC-F-H038M0	110	3,1	2,4	2,1	1,7	0,9	1,41	1,8
SVPC-F-N018M1	110	3,1	2,5	2,3	1,9	1	1,51	1,8
SVPC-F-N002M1	80	3,2	2,2	2	1,6	1	1,51	1,8
SVPC-F-H287M0	30	3,25	3,15	2	1,7	0,8	1,25	2
SVPC-F-H061M0	110	3,4	2,6	2,5	2,5	1	1,5	2,1
SVPC-F-H072M0	100	3,4	2,7	2,45	1,65	0,9	1,48	1,6
SVPC-F-H318M0	110	3,4	2,8	2,5	2,1	1	1,51	2
SVPC-F-N002M5	110	3,4	2,6	2,5	2,1	1	1,51	1,8
SVPC-F-H077M0	120	3,5	2,8	2,49	2,08	1	1,63	1,83
SVPC-F-H134M0	50	3,5	3	2,3	0,5	0,8	2,5	1,5
SVPC-F-H173M0	50	3,5	3	2,3	1,9	0,8	1,32	1,5
SVPC-F-H267M0	110	3,5	3	2,4	2	1	1,51	1,8
SVPC-F-N002M6	110	3,5	2,7	2,6	2,1	1	1,51	1,8
SVPC-F-N018M4	50	3,5	3	2,5	2	0,75	1,32	1,5
SVPC-F-N080M0	25	3,5	3	2,8	2,8	0,7	1,2	1,25
SVPC-F-F2557MF1	60	3,6	3,05	2,45	2,3	0,8	1,25	2
SVPC-F-N002M4	110	3,7	2,9	2,6	2,2	1	1,51	1,8
SVPC-F-N018M7	110	3,7	3	2,4	2	1	1,51	1,8
SVPC-F-H299M1	120	4	3	2,8	2,4	1	1,51	1,8
SVPC-F-N002M2	100	4	3	2,5	2,1	1	1,51	1,8
SVPC-F-N050M2	80	4	3	2,3	1,2	1	1,5	1,8
SVPC-F-N103M7	110	4	3,2	2,9	2,5	1	1,51	1,8
SVPC-F-H008M1	100	4,1	3,2	3,5	2,2	0,8	1,3	1,4
SVPC-F-F292AA01	40	4,2	3,7	2,9	2,35	1	1,48	1,8
SVPC-F-N019M0	120	4,2	3,4	2,9	2,6	1	1,51	1,65
SVPC-F-N103H5	140	4,2	3,4	2,9	2,5	1	1,51	1,8
SVPC-F-N103M1	80	4,2	3,4	2,9	2,5	0,9	1,51	1,8
SVPC-F-N103M5	120	4,2	3,4	2,9	2,5	1	1,51	1,8
SVPC-F-N200M4	130	4,2	3,2	2,7	2,3	1	1,53	1,8
SVPC-F-H311M0	70	4,3	3,75	3,3	2,75	0,9	1,5	1,83
SVPC-F-N038M0	110	4,3	3,8	3,1	2,6	0,7	1,1	1,4
SVPC-F-N008M0	100	4,4	3,4	3,2	2,6	0,9	1,6	1,8
SVPC-F-N050M3	80	4,4	3,4	2,7	1,2	1	1,53	1,8



Length: 1,0 - 21,5 mm
Spring Force: 25g - 400g

Current: 1A / 2A Standard
up to max. 13A customized design

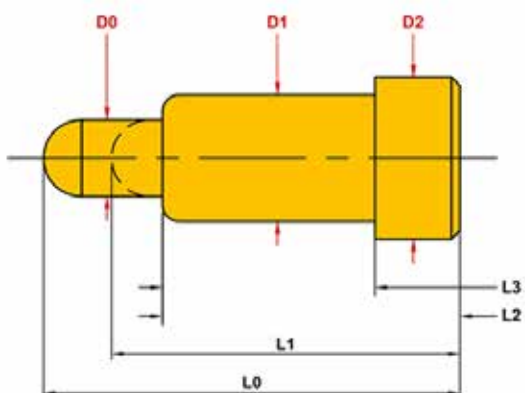
PIN	SF*	L0	L1	L2	L3	D0	D1	D2
SVPC-F-H168M0	100	4,5	3,7	2,9	2,5	1	1,51	1,8
SVPC-F-N067M0	60	4,5	3,7	3,5	3	1	1,51	2,5
SVPC-F-N103M2	120	4,5	3,2	2,9	2,5	1	1,51	1,8
SVPC-F-N103M6	120	4,5	3,7	2,9	2,5	1	1,51	1,8
SVPC-F-N114M0	40-60	4,5	4	3	3	0,9	1,4	1,4
SVPC-F-H041M0	120	4,7	3,6	3,3	2,6	0,9	1,65	1,8
SVPC-F-N016M0	75	4,7	3,8	3,4	0,9	0,9	1,48	2,4
SVPC-F-N066M1	80	4,7	3,5	3,5	2,7	0,7	1,2	1,6
SVPC-F-N119M1	100	4,7	3,3	2,8	2,4	1	1,7	2,1
SVPC-F-N005M8	80	4,8	3,8	3,3	2,8	0,9	1,51	1,9
SVPC-F-H137M0	70	4,9	4,1	3,5	2	0,9	1,55	2,12
SVPC-F-N005M6	110	4,9	3,9	3,6	3,1	1	1,51	1,9
SVPC-F-N010M0	80	4,9	4,1	3,5	2,5	0,9	1,49	1,9
SVPC-F-H223M0	110	5	4	3,6	3,1	0,9	1,51	1,9
SVPC-F-H268M0	60	5	4	3,6	3,1	1	1,51	1,6
SVPC-F-H246M0	110	5,1	4,1	3,6	3,1	1	1,51	1,9
SVPC-F-P3068FH01	65	5,1	4,35	4,25	3,25	0,6	1	1,4
SVPC-F-N010M2	80	5,2	4,4	4	3,2	0,9	1,6	1,9
SVPC-F-N010M5	80	5,2	4,4	4	3,2	1,2	1,6	1,9
SVPC-F-P07286FH1	120	5,3	4,3	3,5	3,1	1	1,5	1,9
SVPC-F-H010M0	60	5,4	4,3	4,1	3,6	0,9	1,5	1,6
SVPC-F-H203M0	400	5,4	3,8	3,6	3,1	0,9	1,51	1,9
SVPC-F-N005M1	110	5,4	4,4	3,9	3,4	0,9	1,51	1,9
SVPC-F-N005M0	110	5,5	4,5	4	3,5	0,9	1,51	1,9
SVPC-F-N006M1	120	5,5	4,4	4	3,5	0,9	1,51	1,9
SVPC-F-N048M1	80	5,5	4,5	4	3,4	1	1,5	1,9
SVPC-F-P2078MF1	110	5,6	4,4	4	3,2	1	1,6	2
SVPC-F-H229M0	80	5,7	4,7	4,3	3,95	1	1,51	1,8
SVPC-F-N114M2	30-40	5,7	5,2	4,2	4,2	0,42	0,8	0,8
SVPC-F-H345M0	60	5,8	4,8	4	3,55	0,9	1,35	1,9
SVPC-F-N005M4	110	5,8	4,8	4	3,5	1	1,5	1,9
SVPC-F-N007M1	80	5,8	5	4,3	3,6	0,9	1,51	2,3
SVPC-F-N007M0	120	5,9	4,9	4,4	3,6	0,9	1,5	1,9
SVPC-F-H223M4	110	6	5	4,6	3,1	0,9	1,51	1,9
SVPC-F-N044M0	120	6	4,8	4,5	4	1	1,51	1,9
SVPC-F-H094M0	120	6,1	5,35	4,4	4,4	0,8	1,37	1,56
SVPC-F-N096M0	110	6,2	5,5	4	3,5	0,96	1,51	1,9
SVPC-F-H069M0	120	6,3	5,1	4,5	4	1	1,51	1,9
SVPC-F-H179M0	110	6,3	5,2	4,5	3,9	1	1,51	2
SVPC-F-N144M0	110	6,3	5,2	4,5	3,5	1	1,51	2,5
SVPC-F-H042M0	100	6,4	5,5	5	4,5	1	1,5	2
SVPC-F-F755AA01	110	6,5	5,5	4,7	4,25	1,07	1,5	1,83
SVPC-F-N042M3	110	6,5	5,5	5	4,5	1	1,51	1,8
SVPC-F-N042M7	110	6,5	5,5	5	4	1	1,51	1,8
SVPC-F-H247M1	80	6,6	4,6	4,2	2,3	1	1,5	1,8
SVPC-F-N042M0	110	6,7	5,5	5	4	0,9	1,51	2
SVPC-F-H028M0	65	6,8	5,7	5,3	3,8	0,9	1,65	2,12
SVPC-F-H056M0	120	6,8	5,8	5,3	2,6	0,9	1,95	2,1
SVPC-F-H136M0	70	6,8	5,7	5,3	3,8	0,9	1,55	2,12

POGO PINS

FLAT TYPE SINGLE PINS

Dimension: mm / *SF: Spring Force (g) ±20%

PIN	SF*	L0	L1	L2	L3	D0	D1	D2
SVPC-F-H247M3	80	6,8	4,8	4,5	2,7	1	1,8	1,5
SVPC-F-N122M0	110	6,8	5,8	5,4	4,8	0,9	1,6	1,9
SVPC-F-N042M4	100	6,9	6	5,4	4,6	1	1,51	1,8
SVPC-F-F755AA02	130	7	5,5	4,7	4,25	1,07	1,5	1,83
SVPC-F-H057M0	120	7	5,9	5,3	4,7	0,9	1,51	1,8
SVPC-F-H289M1	200	7	6,5	5	4,3	1	1,48	2
SVPC-F-N020M1	50	7	6	4,5	4,1	1	1,51	1,8
SVPC-F-N072M0	110	7	5,7	5,5	5,5	1	1,5	1,9
SVPC-F-P2552PH01	50	7,05	5,6	5,45	3,8	0,7	1,2	1,05
SVPC-F-H048M0	110	7,2	6,2	5,4	5	1	1,48	1,8
SVPC-F-H294M0	120	7,2	4,6	4,4	4	1	1,51	1,8
SVPC-F-H165M0	95	7,35	6,45	5,65	5,05	0,9	1,48	1,53
SVPC-F-N005M9	60-100	7,4	5,9	5,8	5,4	0,9	1,5	2
SVPC-F-P07098FH1	50	7,4	6	5,9	5,5	0,9	1,48	2
SVPC-F-F810AA05-1ACR	70	7,5	6,8	6,1	5,7	1	1,48	1,8
SVPC-F-H096M1	110	7,5	6,5	5,6	4,1	0,9	1,55	2,12
SVPC-F-N124M1	110	7,5	6,5	5,6	4,1	0,9	1,65	2,12
SVPC-F-H031M0	110	7,6	6,6	6,1	5,3	1	1,58	1,8
SVPC-F-H299M0	120	7,6	6,4	5,6	4,8	1	1,51	2,5
SVPC-F-N036M0	110	7,6	6,6	6,1	5,3	1	1,51	1,8
SVPC-F-H065M0	100	8	7	6,2	5,8	1	1,48	2,2
SVPC-F-N001M0	100	8	7	6,2	5,2	1	1,51	2,2
SVPC-F-N001M2	65	8	6,9	6,2	5,2	1	1,51	2,3
SVPC-F-N065M2	240	8	6,73	5,9	4,9	1,05	1,95	2,4
SVPC-F-N124M3	110	8	7	6,1	4,6	0,9	1,65	2,12
SVPC-F-F083AA06	60	8,2	6,7	6,6	6,56	1	1,5	1,62
SVPC-F-N143M0	110	8,2	6,9	6,2	4,3	1	1,52	2,5
SVPC-F-H015M1	100	8,5	7,3	6,3	5,3	0,9	1,5	1,9
SVPC-F-H064M0	120	8,5	7	6	5,5	1	1,51	2
SVPC-F-N001M7	110	8,5	7,3	6,7	5,7	1	1,51	2,3
SVPC-F-N010M4	70	8,5	7,8	6,3	5,3	0,9	1,6	1,9
SVPC-F-N010M9	100	8,5	7,3	6,3	5,3	0,9	1,6	1,9
SVPC-F-N115M0	100	8,7	7,5	6,2	4,3	1	1,53	2,5
SVPC-F-N079M0	110	8,8	7,7	7	6,2	1	1,51	1,8
SVPC-F-H029M0	100	9	7,8	6,3	5,3	1	1,51	1,9
SVPC-F-N001M3	130	9	7	6,2	5,2	1	1,5	2,2
SVPC-F-N002M0	100	9	7,8	6,3	5,3	1	1,6	1,9
SVPC-F-N017M0	100	9	8	7	6	1	1,51	2,2
SVPC-F-N010M1	120	9,2	7,7	6,3	5,3	0,9	1,6	1,9
SVPC-F-N011M0	100	9,3	8,3	6,3	5,3	1	1,6	1,9
SVPC-F-N011X0	100	9,3	8,3	6,3	5,3	1	1,6	1,9
SVPC-F-N027M3	110	9,3	8,3	7,5	6,7	1	1,51	2,5
SVPC-F-N083M0	110	9,5	8,5	7,3	6,3	0,9	1,4	1,9
SVPC-F-H018M0	250	9,7	7,7	7	2,2	1	2,32	4
SVPC-F-H028AA00	110	9,7	8,7	7,9	7,4	1	1,5	1,8
SVPC-F-N142M0	125	9,8	8,2	7,3	4,9	1	1,51	2,26
SVPC-F-N017M1	150	10	7,5	7	6	1	1,51	1,8
SVPC-F-H001M0	110	10,3	9	7,8	7,1	0,9	1,5	1,9
SVPC-F-N027M4	110	10,5	9,5	7,5	6,7	1	1,51	2



Length: 1,0 - 21,5 mm
Spring Force: 25g - 400g

Current: 1A / 2A Standard
up to max. 13A customized design

PIN	SF*	L0	L1	L2	L3	D0	D1	D2
SVPC-F-N028M1	110	11,2	10,2	9,7	8,9	1	1,51	1,8
SVPC-F-N028M2	145	11,2	9,8	9,4	8,4	1	1,6	1,9
SVPC-F-N028M6	145	11,2	9,8	9,4	9	1	1,51	1,8
SVPC-F-N082M2	130	11,7	9,7	8,1	7,1	0,9	1,4	1,9
SVPC-F-P5773PH01	80	12,1	11,3	9,6	7,1	0,8	1,25	1,6
SVPC-F-N051M0	120	12,5	10,9	10	9,8	0,8	1,37	2
SVPC-F-N082M0	110	12,5	11,5	8,1	7,1	0,9	1,33	1,9
SVPC-F-N082M1	180	12,5	9,5	8,1	7,1	0,9	1,4	1,9
SVPC-F-N128M4	80	12,6	10,9	10,1	7,1	0,8	1,25	1,34
SVPC-F-H118M1	50	14	13,25	12,5	10,4	1	1,5	1,6
SVPC-F-H121M1	120	14,5	13	11,5	8,5	1	1,52	1,8
SVPC-F-N028M0	110	15	14	13,2	12,7	1	1,51	1,8
SVPC-F-N123M0	110	15,2	14,2	13,7	13,1	0,9	1,5	3,1
SVPC-F-N123M1	110	16,5	15,5	15	14,4	0,9	1,45	3,1
SVPC-F-N011M2	100	17,5	16,3	14,55	13,55	1	1,51	2
SVPC-F-P07984FH1	100	19	17,8	16,05	15,05	1	1,51	2
SVPC-F-N021M1	150	21,5	19	18	13,5	0,9	1,5	1,8

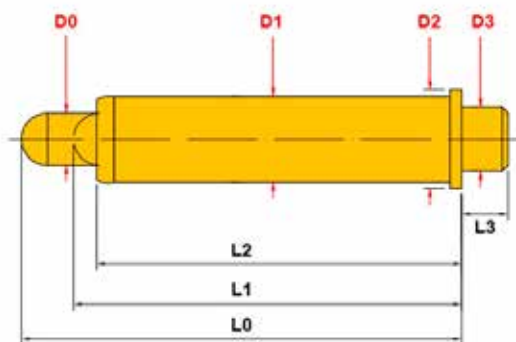


POGO PINS

PLUG-IN TYPE SINGLE PINS

Dimension: mm / *SF: Spring Force (g) ±20%

P/N	SF	L0	L1	L2	L3	D0	D1	D2	D3
SVPC-P-P6269FH01	60	1,39	1,11	1,09	0,1	0,4	0,8	0,8	0,7
SVPC-P-P3852FP01	70	2,65	2,05	1,25	0,55	1	1,6	1,9	1,5
SVPC-P-P08141SH3	110	2,78	2,29	1,91	2,35	0,97	1,5	3,32	1,72
SVPC-P-P08141PH2	110	3,58	2,09	1,71	3,15	0,97	1,5	3,32	1,72
SVPC-P-H166M0	110	4	2,85	2,5	2,5	1	1,48	1,8	1,46
SVPC-P-H008M0	140	4,2	3,6	2,8	0,8	0,8	1,3	1,4	0,8
SVPC-P-H355M0	100	4,2	3,2	2,4	0,5	1	1,5	2,2	1,5
SVPC-P-N059M0	100	4,3	3	3	2,3	0,8	1,6	2,8	1,4
SVPC-P-H247M0	50	4,3	3,5	2,4	0,6	0,9	1,3	1,6	1,35
SVPC-P-N050M0	90	4,35	3,55	3,1	0,4	0,8	1,25	2	1,25
SVPC-P-H044M0	190	4,45	3,15	2,5	4,35	1,5	2,2	2,8	2,2
SVPC-P-N164M0	110	4,5	3,5	3,25	6	0,9	1,5	1,9	0,8
SVPC-P-H308M0	110	4,5	3,5	3,25	6	0,9	1,5	1,9	1,2
SVPC-P-H066M0	80	4,7	3,6	3	2,5	0,9	1,9	1,5	0,4
SVPC-P-H234M1	70	4,8	4,3	2,9	0,8	0,9	1,51	1,7	0,8
SVPC-P-N181M2	110	4,8	4	3,3	0,8	1,03	1,5	2,1	0,8
SVPC-P-H133M7	150	5	3,8	3	1,5	2	3,2	2	2
SVPC-P-H324M0	70	5,2	4,15	3,05	0,65	1,07	1,5	1,83	0,7
SVPC-P-P782AA01	110	5,2	4,2	3	6	0,9	1,75	1,9	0,8
SVPC-P-H284M0	110	5,5	4,5	4	0,8	0,9	1,48	1,9	0,8
SVPC-P-N160M0	140	5,5	4,1	4	2	0,9	1,5	1,5	0,7
SVPC-P-H229M2	100	5,6	4,7	4,2	0,8	1	1,51	2	1
SVPC-P-H016M0	110	5,6	4,6	3,95	1	0,9	1,43	1,43	0,51
SVPC-P-H229M1	80	5,7	4,7	4,3	0,8	1	1,51	1,8	0,6
SVPC-P-N059M5	65	5,7	4,2	3,4	2,55	0,76	1,7	2,8	1,37
SVPC-P-P2525PH02	120	5,7	5,2	4,7	0,6	0,9	1,43	1,43	0,51
SVPC-P-H203M1	80	5,8	5	4,3	0,8	0,9	1,51	1,8	0,6
SVPC-P-H092M0	120	5,8	4,8	4	2	0,9	1,5	1,5	0,6
SVPC-P-H164M0	110	6	4,5	3,8	1,6	2	3	3,5	1,5
SVPC-P-P3721PH01	50	6	5,3	4,1	1,75	0,9	1,5	2	0,5
SVPC-P-P6877PH01	110	6,2	5,2	4,7	5,5	0,9	1,48	1,52	0,8
SVPC-P-H016M2	110	6,2	5,2	3,95	0,6	0,9	1,43	1,43	0,51
SVPC-P-H024M0	100	6,4	5,5	4,5	0,8	1	1,5	2	1
SVPC-P-H181M3	100	6,5	5,7	4,7	0,8	0,9	1,51	2	1
SVPC-P-N059M3	100	6,5	5,5	3,7	2,8	0,8	1,6	2,8	1,4
SVPC-P-N181M8	100	6,7	5,8	5,3	0,8	1	1,5	2	1
SVPC-P-H024M2	100	6,7	5,8	5,3	0,8	1	1,5	2	1
SVPC-P-H232M1	180	6,7	4,9	3,9	3,3	2,5	3,5	4,6	4,1
SVPC-P-H181M0	110	6,76	5,85	5,4	0,8	1	1,51	2,7	1
SVPC-P-N059M1	100	6,8	4,5	4,5	1,3	0,8	1,6	2,8	1,4
SVPC-P-N183M0	150-200	7	5,7	4,8	1,4	1,7	2,5	2,7	1,5
SVPC-P-N130M1	50	7,1	6,4	5,3	0,8	0,8	1,2	1,3	1
SVPC-P-N181M0	110	7,2	6,2	5,4	0,6	1	1,48	1,8	1,3
SVPC-P-N130M2	50	7,3	6,4	5,3	0,8	0,8	1,2	1,3	1
SVPC-P-P07149MP	50	7,4	6	5,8	2	1	1,51	2	1
SVPC-P-H181M2	100	7,5	6,7	6	0,8	0,9	1,51	2	1
SVPC-P-H256M0	110	7,6	6,6	6,1	0,8	1	1,48	1,8	1
SVPC-P-H007M2	90	7,6	6,7	6,3	0,8	0,9	1,51	1,7	1,1



Length: 1,39 - 19,0 mm
Spring Force: 35g - 500g

Current: 1A / 2A Standard
up to max. 13A customited design

P/N	SF	L0	L1	L2	L3	D0	D1	D2	D3
SVPC-P-N065M0	240	8	6,73	5,9	1,2	1,05	1,93	2,4	1,65
SVPC-P-P2791PH01	100	8,1	6,7	6,2	1	0,8	1,28	1,7	0,8
SVPC-P-H114M0	150	8,2	6,9	6,3	2	0,9	1,6	1,9	1,2
SVPC-P-N182M0	100	8,3	6,8	5,8	1,2	1,2	1,75	1,9	1,75
SVPC-P-H114M1	150	8,5	7,2	6,3	1,7	0,9	1,6	1,9	1,2
SVPC-P-N181M4	110	8,7	7,7	6,7	0,8	1	1,48	2	1,3
SVPC-P-H200M0	170	8,74	7,24	3,54	3,86	1	1,5	3,9	2
SVPC-P-H046M0	100	9	7,8	6,3	0,8	1	1,59	1,9	1
SVPC-P-H007M0	90	9,1	8,2	7,8	0,8	0,9	1,51	1,7	1,1
SVPC-P-H236M0	120	10	7,2	7	2	2	3	3	0,9
SVPC-P-H181M1	90-150	10,5	9,5	8,8	1	1	1,51	1,8	1
SVPC-P-H054M0	85	10,5	8,98	7,63	2,5	1,37	1,98	2,5	1,02
SVPC-P-N029M3	110	10,9	9,5	8,7	2,5	1	1,51	1,8	0,6
SVPC-P-H180M0	35-55	11,1	9,6	8,5	10,7	1	1,48	1,51	0,6
SVPC-P-H121M4	150	11,8	9,5	8,8	1,7	1	1,47	1,8	1,23
SVPC-P-H150M0	130	12,5	9	8,3	1,7	0,9	1,62	1,9	1,23
SVPC-P-N029M2	110	13,7	12,5	11	2,5	1	1,51	1,8	0,6
SVPC-P-P07603PH1	120	14,1	11,1	10,8	4	1,3	2	2,2	1,2
SVPC-P-H180M5	100	14,5	12,5	11	4	0,9	1,49	2	0,6
SVPC-P-N029M0	100	14,7	13,7	13,2	2,5	1	1,51	1,8	0,6
SVPC-P-P1763AA03	120	15	14	12,5	3	1,3	2,2	3,8	2
SVPC-P-N029M1	130	15,5	13,5	11	2,5	1	1,51	1,8	0,6
SVPC-P-H131M0	130	16,3	14,3	12,7	2	1	1,51	1,8	0,6
SVPC-P-P07408PH2	150	16,5	12,5	9	10,2	1,4	3,3	4	3,3
SVPC-P-P851AA01	100	19	18,1	16,05	1,7	1	1,48	2	1
SVPC-P-N165M0	500	19,66	16,06	12,66	0,5	5,33	6,56	6,56	1
SVPC-P-P08560SH1	90	25,4	22,8	18,2	10	3,7	6,9	6	2,2

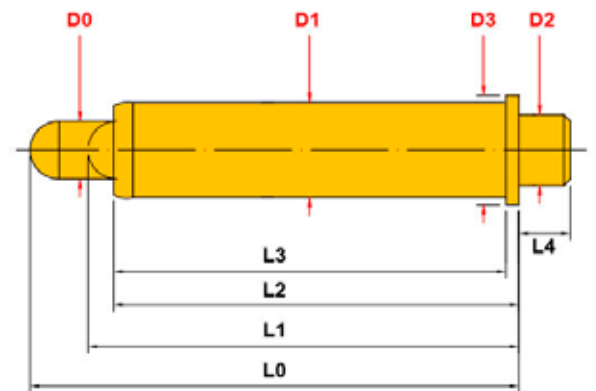


POGO PINS

OTHER PINS



HIGH CURRENT



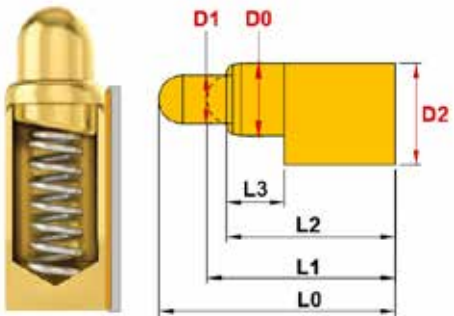
P/N	Typ	SF*	Lebensdauer Zyklen (min.)	Strom max.	L0	L1	L2	L3	L4	D0	D1	D2	D3
SVPC-F-F1911AA03	Flat	90	10.000	8A	5,40	4,70	4,20	3,70	-	0,90	1,53	1,70	-
SVPC-P-P2859SH01	Plug-In	100	20.000	5A	6,45	5,50	5,20	4,70	2,70	1,00	2,50	1,20	2,90
SVPC-P-P07567PH2	Plug-In	100	10.000	10A	6,55	5,90	5,70	4,75	0,75	1,30	3,30	3,30	4,00
SVPC-P-P07567PH1	Plug-In	100	10.000	10A	6,55	5,90	5,70	4,75	0,75	1,30	2,41	2,21	3,18
SVPC-P-P2776PS07	Plug-In	50	10.000	5A	6,65	5,95	4,80	4,80	1,35	0,90	1,48	0,85	2,00
SVPC-P-P2110PS01	Plug-In	90	10.000	5A	8,00	6,00	5,90	5,65	2,50	1,02	1,30	0,90	1,45
SVPC-P-P5650FH01	Plug-In	120	10.000	9A	8,08	6,94	5,79	5,03	1,53	1,27	1,57	1,42	1,88
SVPC-P-P07238PH1	Plug-In	120	10.000	8A	8,50	7,00	6,50	6,00	2,00	1,50	2,38	1,00	3,50
SVPC-P-P5650FH05	Plug-In	120	10.000	15A	9,61	8,67	5,79	5,03	1,53	1,27	2,41	3,18	2,21
SVPC-P-P1182AA02	Plug-In	90	10.000	5A	11,50	9,65	8,95	5,25	1,65	1,00	2,00	0,70	2,00
SVPC-P-P07650SH1	Plug-In	120	10.000	5A	13,25	11,35	10,80	8,80	3,00	1,75	2,40	0,90	2,90
SVPC-P-P07408PH1	Plug-In	150	10.000	12A	14,50	11,50	8,50	8,00	10,20	1,40	1,35		1,70
SVPC-P-P1763AA01	Plug-In	110	10.000	5A	15,00	14,00	12,50	10,50	3,00	1,30	2,20	2,00	3,80

Dimension: mm / *SF: Spring Force (g) ±20%

RIGHT ANGLE

P/N	SF*	L0	L1	L2	L3	D0	D1	D2
SVPC-R-H003M6	120	4,9	3,9	3,5	1,2	1,0	1,5	2,8
SVPC-R-H003M2	120	4,9	3,9	3,5	1,2	1,0	1,5	3,3
SVPC-R-H003M0	120	4,9	3,9	3,5	1,2	1,0	1,5	2,1
SVPC-R-H050M0	80	5,1	4,2	3,6	1,5	1,2	0,8	2,0
SVPC-R-H003M1	120	5,2	4,2	3,5	1,2	1,0	1,5	2,1
SVPC-R-H036M0	120	5,3	4,3	3,5	1,2	1,2	1,0	2,1
SVPC-R-H003M3	120	5,3	4,3	3,5	1,2	1,0	1,5	2,1
SVPC-R-H012M7	90	5,6	4,2	3,9	1,7	1,0	1,5	2,7

Dimension: mm / *SF: Spring Force (g) ±20%





ROLLING PIN

P/N	Typ	Länge	Plug	Strom max.	Lebensdauer min. (Zyklen)
SVPC-RF-P5079FP04	Flat Type	3,50		2A	2.000
SVPC-RF-P5079FP06	Flat Type	4,00		2A	2.000
SVPC-RF-P5079FP02	Flat Type	4,50		2A	2.000
SVPC-RF-P08575FP4	Flat Type	8,05		2A	10.000
SVPC-RF-P08575FP5	Flat Type	9,30		2A	10.000
SVPC-RF-P6783FH02	Flat Type	41,00		6A	10.000
SVPC-RP-P5079PP08	Plug-In Type	3,90	0,50	1A	10.000
SVPC-RP-P5079PP07	Plug-In Type	4,00	2,70	1A	10.000
SVPC-RPS-P5079PP07	Plug-In Type / Solder Cup	4,20	2,00	2A	2.000
SVPC-RP-P08435PP1	Plug-In Type	5,20	1,70	3A	10.000
SVPC-RPS-P07393PH1	Plug-In Type / Solder Cup	7,90	2,20	2A	10.000
SVPC-RPS-P07319PP1	Plug-In Type / Solder Cup	8,40	3,00	3A	10.000
SVPC-RP-P07562PP1	Plug-In Type	9,25	5,23	3A	10.000
SVPC-RP-P5982PP02	Plug-In Type	9,45	1,10	1A	5.000
SVPC-RP-P5982PP03	Plug-In Type	9,45	1,10	1A	5.000
SVPC-RPS-P07429SP1	Plug-In Type / Solder Cup	9,45	3,00	1A	10.000
SVPC-RP-P6217PP01	Plug-In Type	15,00	1,50	1A	200.000
SVPC-RP-P5982MP53CHR	Plug-In Connector	23,00	1,10	1A	200.000



In our online catalog, you will find further standard spring contacts and connectors that you can request quickly and easily:

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- Technical specifications
- Details of the desired equipment extras
- Required quantity, annual requirement or term

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