

APEX Pogo Pin

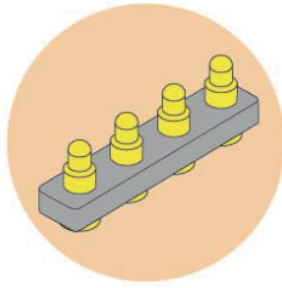
Pogo pin is a spring loaded pin used to establish electrical connection on with printed circuit board or another pin. Pogo pin is connected when it's pressed, so it could isolate signal transmission while it's in free status. While it's connected, the spring force can be secured very tight.

Multiple pogo pins can be assembled with plastic housing to become a pogo pin connector. The housing is customized to provide flexibility in terms of pitch, dimension, ..., etc. APEX pogo-pin can fall into 3 categories as followings.



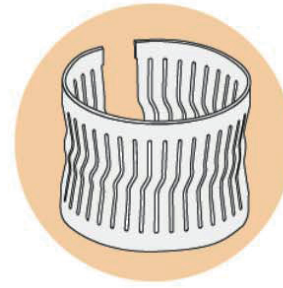
Pogo-pin

- Spring loaded
- Broad options
- Customized
- Low tooling cost



Pogo-pin Connector

- Spring loaded
- Customized
- Optional IPX7 waterproof, high-frequency data transmission



Crown Spring

- Spring loaded
- Customized
- Very high current
- Long life under low
- Long life under low resistance

Application examples



Consult APEX for recommendation!

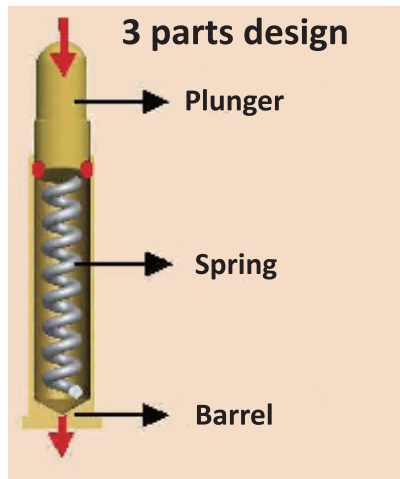
Product Structure

Pogo pin consists 3 parts which are plunger, spring, and barrel. Optional contact ball or knob is available.

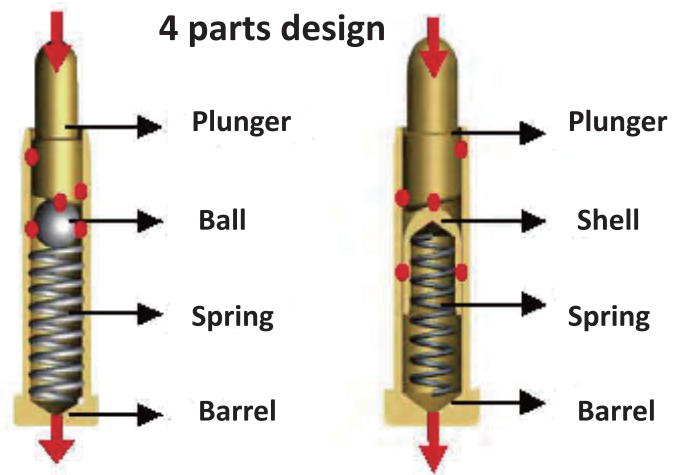


Design concept

Once plunger and spring are engaged, electricity flows from plunger to barrel as it has much lower resistance than spring.



Basic structure



High current solutions

Plunger Design

Below are most popular plunger designs to meet customers' requirement.



Bias Design



Back-Drill Design



Cone Design



Step Type

Barrel

About our barrel design, to fit your design space and functional requirement, and keep guaranteed life-cycle at the same time, we offer many choices for the outside diameter of barrels in our product catalog. On the end of barrel, we also can design a flange for your convenience to fit tight and control the depth of soldering with printed circuit board. Besides, with rectangular shape and bent-metal type.

As the difference in barrel design, we divided pogo pin into the following types:

F

Flat Type

Flat bottom of barrel is design to be mounted on PCBA.



P

Plug Type

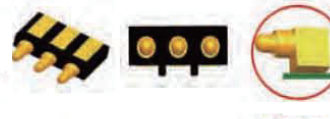
Flat bottom of barrel with added post will improve strength once it's soldered on PCBA



R

Right-Angle Type

Right-angle design helps designers to narrow the space.



M

Multiple Type

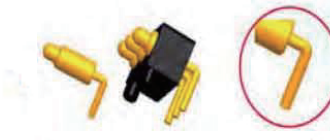
"Bent metal plus pogo pin" offers engineers more flexible design on space adjustment.



B

Bending Type

"Bending tail of barrel" offers engineers more choices on space adjustment.



S

Special Spec

Customized plunger is available upon request.

