

Spring Contact Introduction

These designs provide single contact points with high durability (number of mating cycles) and require no special shape of mating surface or connector.

The Spring Contact family provides a choice of single contact options, that mate with flat metal surfaces. The spring force designed into the contact gives a positive connection, maintaining electrical connectivity between the assembled contact and another PCB, an antenna, a grounding plane, or the outer enclosure panels. Suitable for passing a full current, or for use as a grounding element with trickle current.

- ❖ Free heights from 1.23mm to 8.20mm, recommended working heights from 0.90mm to 7.10mm
- ❖ Total flexibility with multiple design styles and performance capabilities
- ❖ High mating durability, from 1,000 to 10,000 minimum operations
- ❖ Most designs supplied on Tape and Reel packaging, for fully automated assembly systems within high volume manufacturing applications
- ❖ Stocked in depth throughout Harwin's authorized distributor network

Spring Contacts

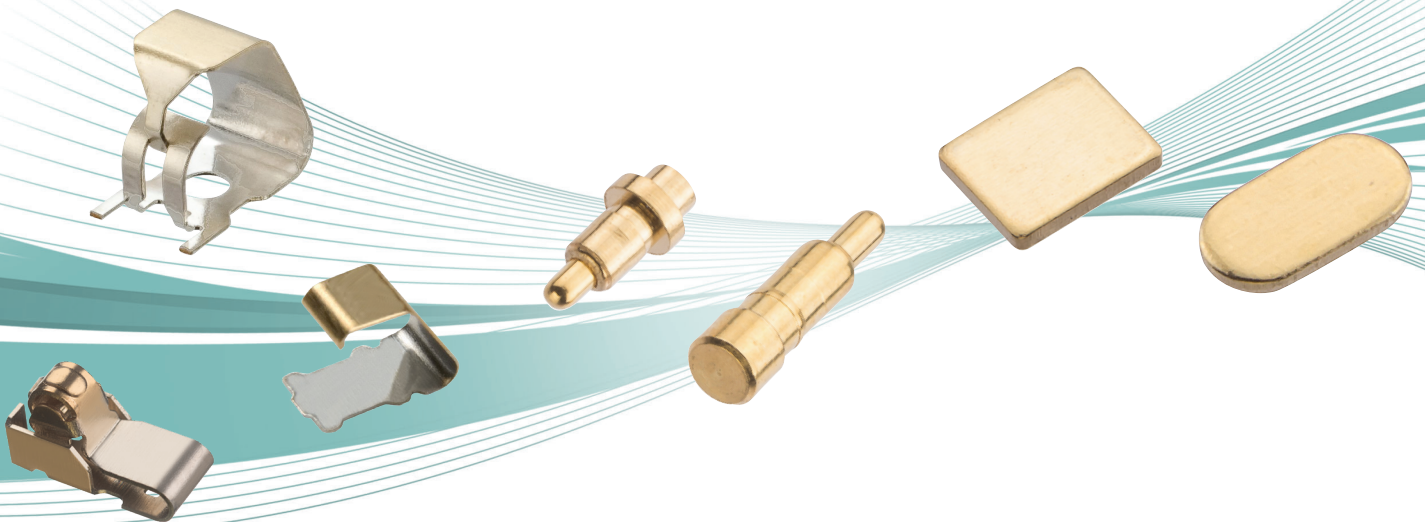
- ❖ Manufactured from various grades and compositions of Copper Alloy, these products utilise the inherent spring properties of the metal to provide the spring force.
- ❖ Rated from 1A to 9A max current, depending on design.
- ❖ Alternative uses include grounding contacts, antenna contacts, single or parallel connections. Also called Spring Fingers.

Pogo Pins

- ❖ Precision construction consisting of plunger, barrel and inner miniature stainless steel spring.
- ❖ Provides robust connections with high mating cycle durability of 10,000 operations.
- ❖ Design options for heights and additional locating peg to assist with SMT mating and vertical stability.

SMT Contact Pads

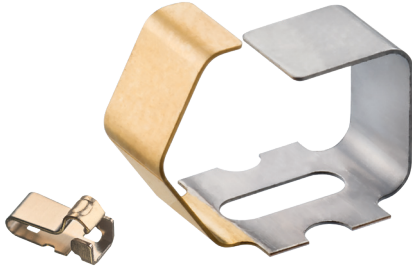
- ❖ Provides a mating connection surface with a compatible gold finish for either the spring contact or pogo pin designs.
- ❖ Choice of three shapes and pad depths up to 0.5mm.
- ❖ Supplied in Tape and reel for easy automation during assembly.



Spring Contact Product Features

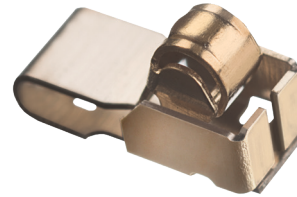
Spring Contacts – Simple flexible designs

Single piece contact designs with a variety of additional features. Small and compact, down to ultra-miniature for mobile antenna connection.



Spring Contacts – Positive Stop design

Rigid upstands on the lower contact surface prevent the mating surface from completely flattening the contact.



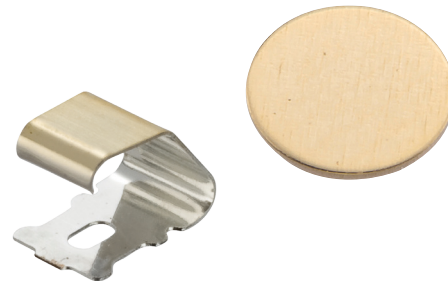
Spring Contacts – Anti-hooking design

Full 360 degree loop, to prevent the end of the upper contact surface from getting snagged during or after production and installation. Known as a Box style.



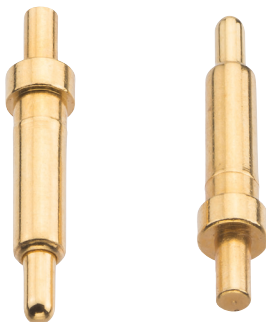
Spring Contacts & SMT Pads – Automated placement

Supplied as standard in tape and reel for fast and easy high volume automated assembly. Pick and place location built into the design.



Pogo Pins – SMT Locating Peg

Additional locating peg on base of contact, to assist with SMT location during assembly, and also maintain vertical stability during all assembly operations.



Pogo Pins – Automated placement

Most designs supplied as standard in tape and reel for high volume automated assembly. Pick and place caps pre-assembled to provide vacuum nozzle location.



All dimensions in mm.