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swiss world connects



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Solderless Press-Fit Solution

7/01/2022

Conventional Wire to Board connection



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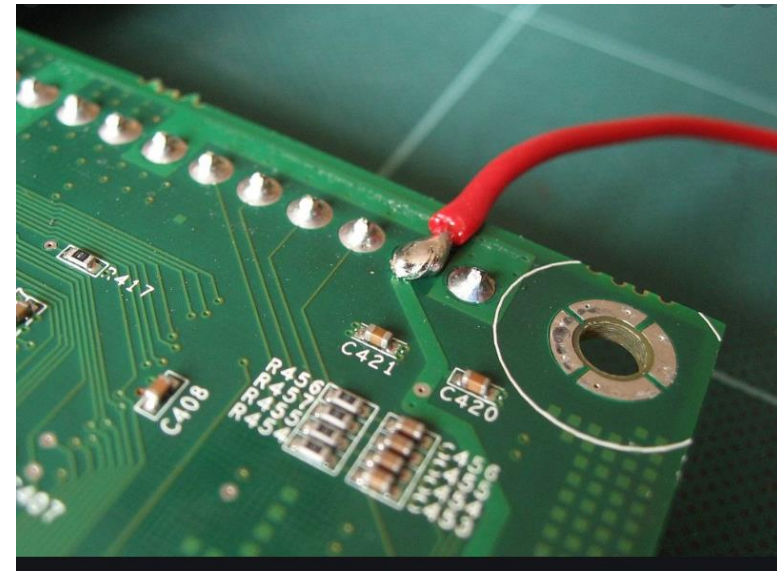
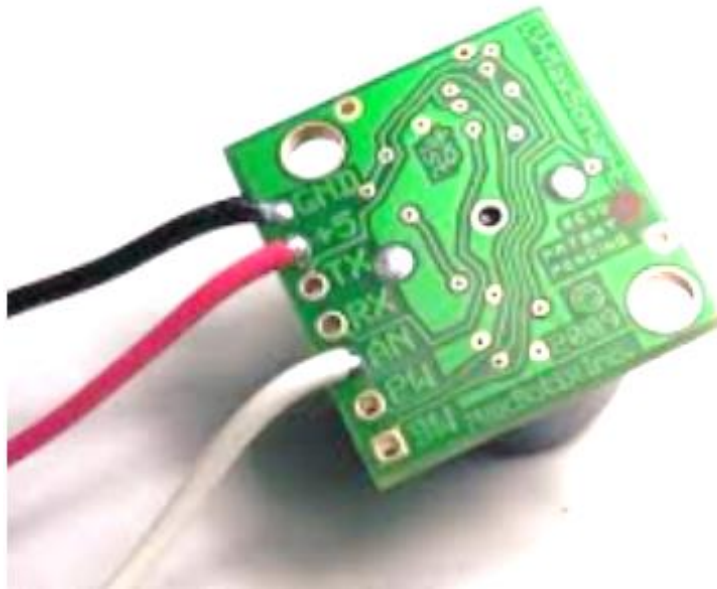
Manual soldering

Advantages :

- Flexible solution
- Ideal for prototyping

Disadvantages :

- Unprecise
- Unreliable
- Not repeatable for mass production

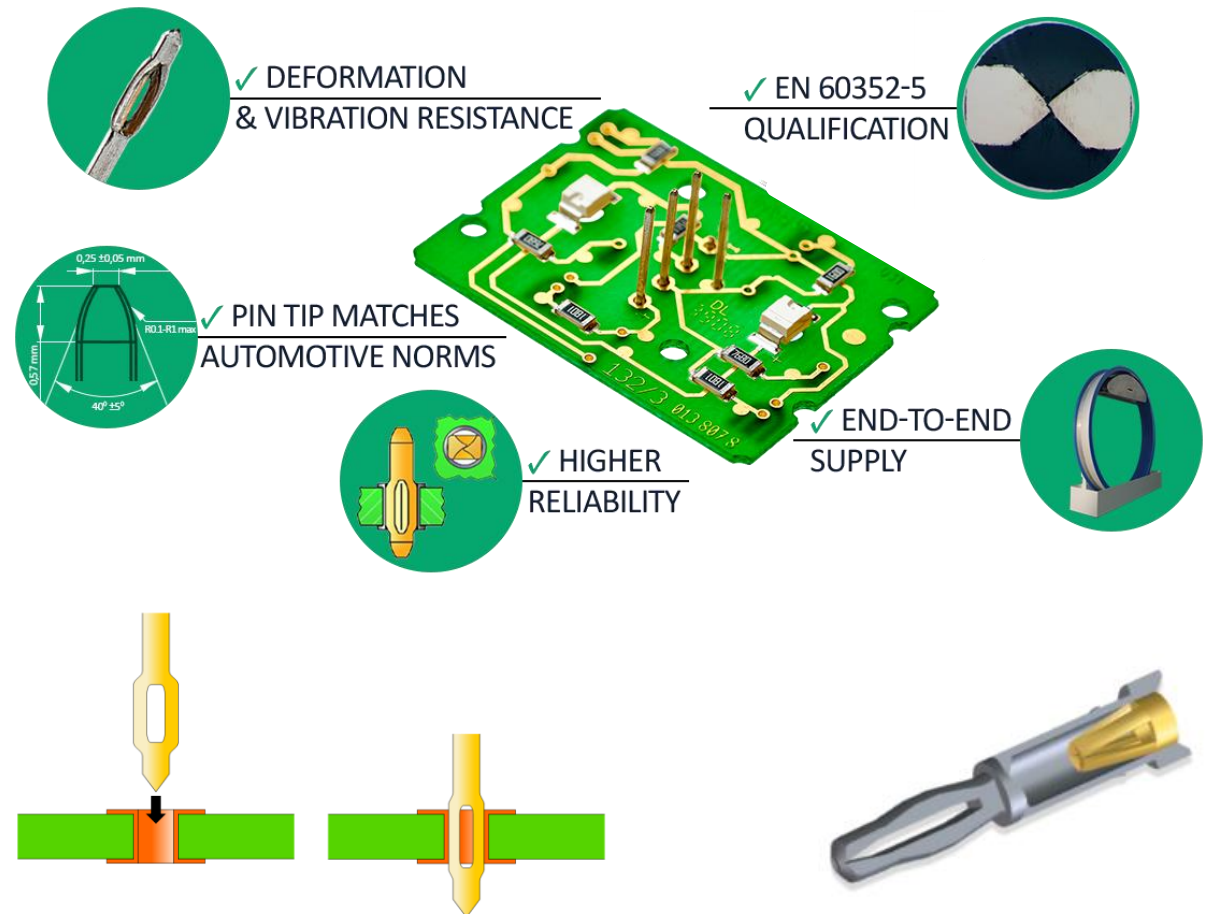


Introduction



Press-Fit technology

- Reliable
- Solder-free
- Lead-free
- Automation-friendly
- Deformation & Vibration Resistance
- Delivers both the high-current capabilities and design flexibility
- Wide range of applications across a multitude of industries.



Solderless Press-Fit Solution



PCB Board Connection
Compliant Press-Fit Pin

Crimping side
Screw machined Barrel in special
brass



Press-fit micro section



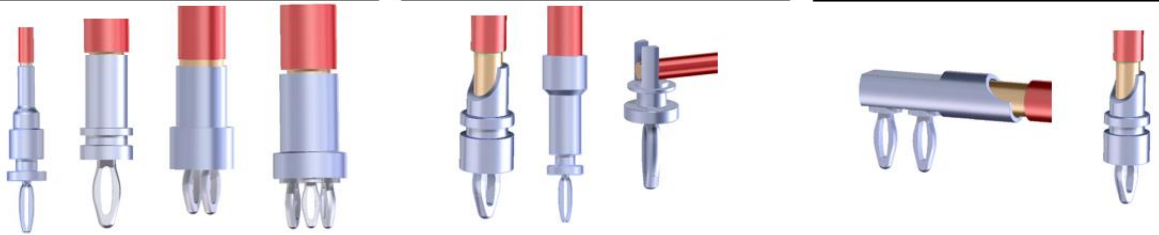
Standard crimping tool with adapted crimp insert

→ Design can be adapted according customer need.

From wire size gauge 22 to 5
Up to 85 Amps

Different types of termination
Fitting with process requirements

Different wire orientations
Vertical or Horizontal Mount



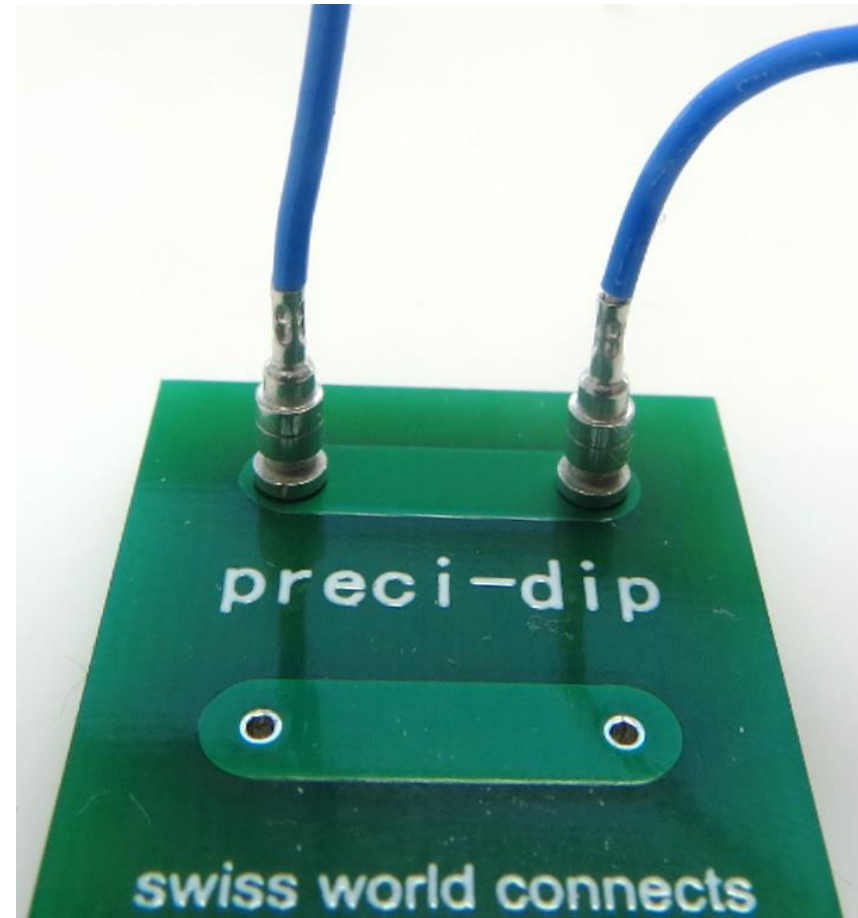
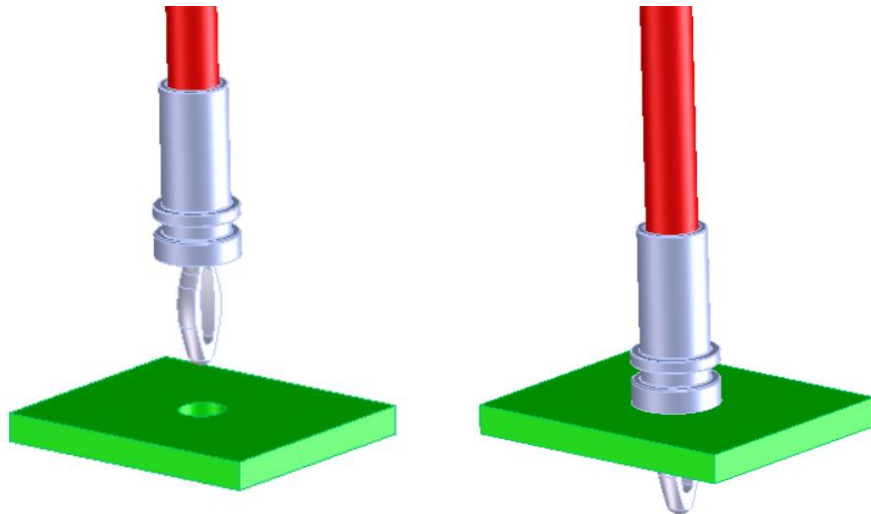
Solderless Solution: Wire to Board



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Press-Fit the contact to the board

Push on
shoulder

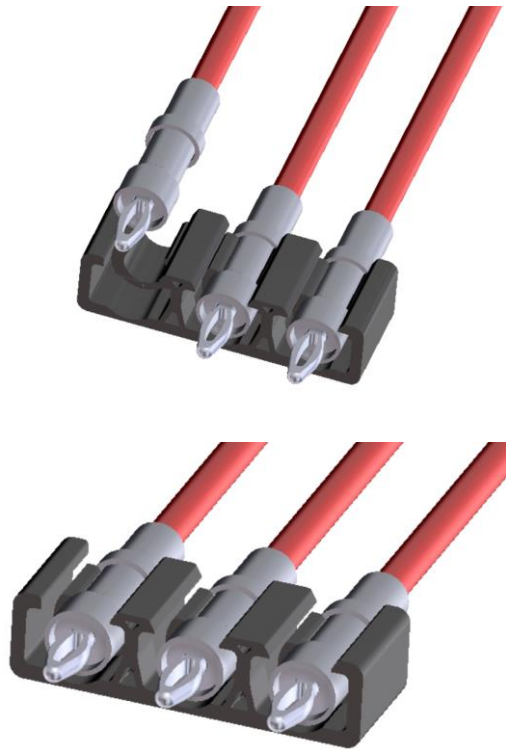


Harness Assembly

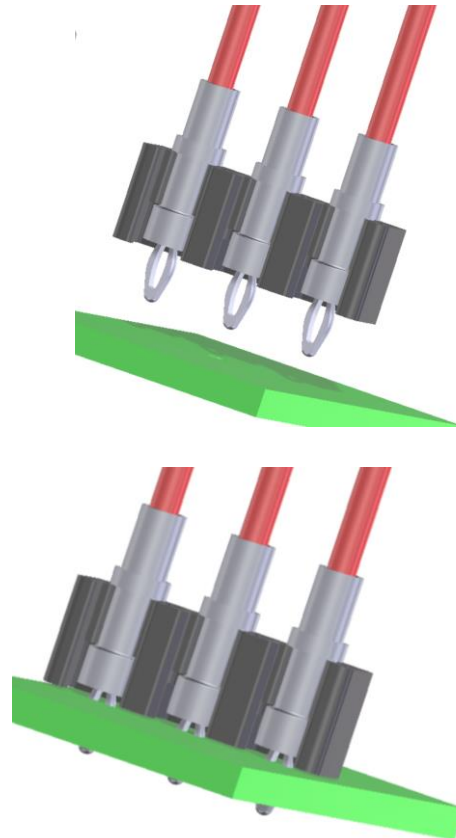


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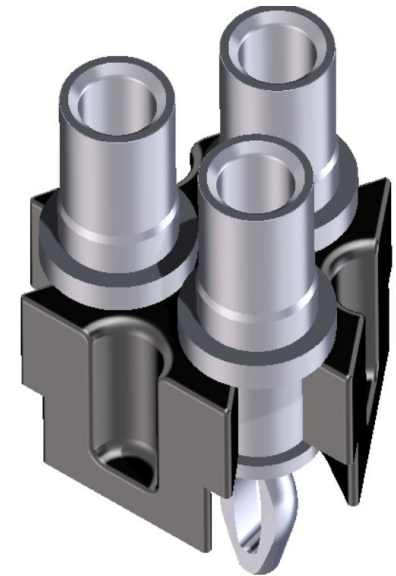
Assembly of contacts inside the insulator



Press-Fit of the connector on the board with a dedicated tool



Other Shapes Possible

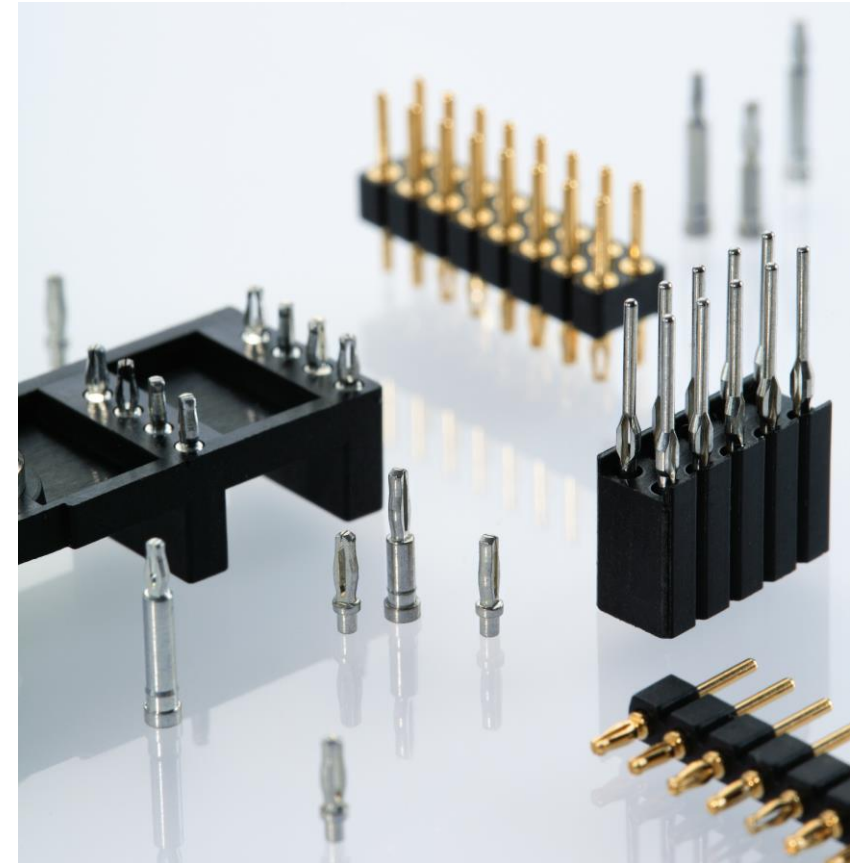


Applications



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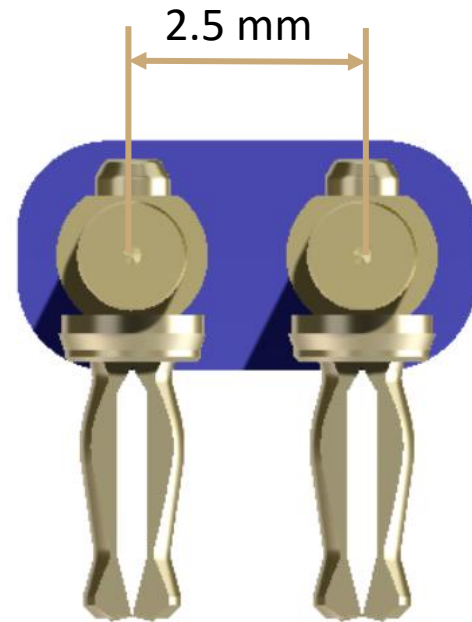
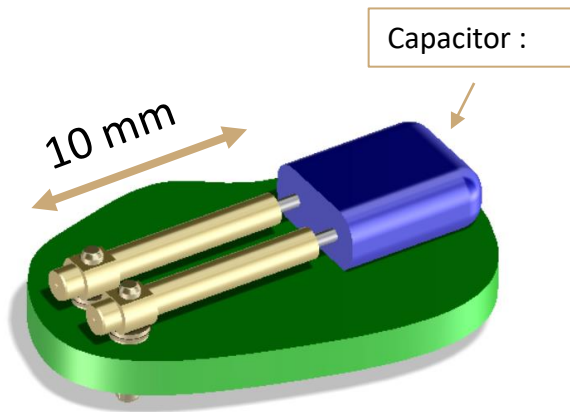
- PCB to PCB Stacking interconnect
- Capacitor
- Molded modules
- Smart Junction boxes
- Controllers
- Lighting
- Variety of other custom applications



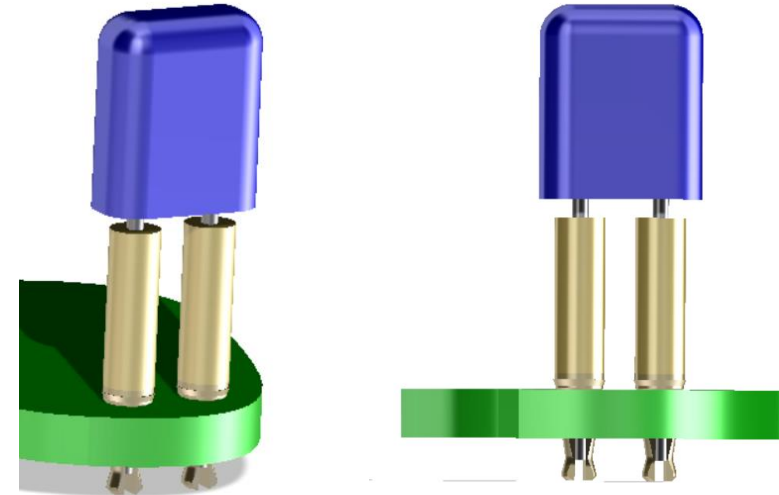
Capacitor



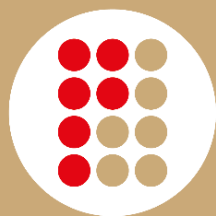
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Contact can be adapted according customer need,
Many other applications possibilities.



- 2.5 mm pitch
- Possibility to add an insulator
- Crimp insert to be adapted
- PCB Hole 1 mm +/- 0.05
- Insertion force 50 N each
- Retention 30N each



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THANK YOU FOR
YOUR ATTENTION

www.precidip.com