Actuators, sensors, ECUs – the digital future needs reliable contacts. Our comprehensive portfolio of press-fit contacts offers you a precise, solderless contact technology that’s gentle to PCBs.

The EloPin®, and similar press-fit contacts developed by INOVAN, have for years been delivering great results when it comes to solderless electrical connection that’s gentle to PCBs. Their cost-effectiveness and low error rate, combined with growing market demand, make these press-fit technologies a highly future-oriented contact solution – ideal for the demanding automotive applications of the future!
THE EloPin® BY INOVAN
A RELIABLE CONNECTION
BY YOUR RELIABLE PARTNER

Thanks to their attractive combination of high elasticity and maximum mechanical stability (low press-in force, high push-out force), our press-fit contacts are used in a wide variety of industries. Extreme applications in the engine compartments of electric and self-driving cars at up to 175°C are a particular area of focus.

SOLDERLESS CONNECTION
A connection technology that’s gentle to PCBs, without the need for a complex and error-prone soldering process.

VARIETY OF GEOMETRIES
In addition to the EloPin models, INOVAN also offers other press-fit contacts as well as customer-specific solutions.

EXTREMELY STABLE – HIGHLY ELASTIC
A unique combination of high elasticity and maximum mechanical stability.

WIDE-RANGING APPLICATIONS
Can be used in a variety of industries, with a focus on automotive applications of the future (such as electric vehicles).

MAXIMUM EFFICIENCY
Quick and simple to fit to printed circuit boards on both sides.

ENVIRONMENTS FROM -40 TO 175°C
Extremely robust and certified for high-temperature applications up to 175°C.

More information about all EloPin® models and INOVAN press-fit contacts:

🌐 www.inovan.de/pressfit
✉️ kontakttechnologie@inovan.de
📞 Speak to an advisor: +49 (7231) 493-634 or -241
Contact us!
PRESSFIT

- secure solderless connection up to 175°C
- INOVAN pressfit contact 0.60mm, 0.64mm und 0.80mm
- EloPin pressfit 0.6mm, 0.8mm
- base material CuSn6 or CuNiSi
- surface Ni/Sn
- extensive test phase concluded
- sealed in the injection tool
- application for example in control units, sensors, actuators

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Name</th>
<th>Inovan Pressfit</th>
<th>Inovan Pressfit</th>
<th>Inovan Pressfit</th>
<th>EloPin 06-10</th>
<th>EloPin 08-145</th>
<th>EloPin 08-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>material thickness</td>
<td>0.60mm</td>
<td>0.64mm</td>
<td>0.80mm</td>
<td>0.6mm</td>
<td>0.8mm</td>
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<tr>
<td>circuit board bore (tin-plated)</td>
<td>1mm</td>
<td>1mm</td>
<td>1.60mm</td>
<td>1.00mm</td>
<td>1.45mm</td>
<td>1.60mm</td>
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<tr>
<td>standard check</td>
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<td></td>
<td>IEC 60352-5</td>
<td></td>
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<tr>
<td>surface</td>
<td></td>
<td></td>
<td></td>
<td>electroplated Sn mat over Ni</td>
<td></td>
<td></td>
</tr>
<tr>
<td>material</td>
<td>CuSn6, CuNiSi</td>
<td>CuSn6; different CuNiSi alloys</td>
<td>CuSn6; different CuNiSi alloys</td>
<td>CuSn6: -40°C to + 125°C</td>
<td>CuSn6: -40°C to + 125°C</td>
<td>CuNiSi: -40°C to + 150°C</td>
</tr>
<tr>
<td>temperature range</td>
<td></td>
<td></td>
<td></td>
<td>CuSn6: -40°C to + 125°C</td>
<td>CuSn6: -40°C to + 150°C</td>
<td>CuNiSi: -40°C to + 175°C</td>
</tr>
<tr>
<td>press-in force, max.</td>
<td>130N</td>
<td>100N</td>
<td>160N</td>
<td>160N</td>
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<tr>
<td>press-out force (new state), min.</td>
<td>40N</td>
<td>30N</td>
<td>40N</td>
<td>50N</td>
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<tr>
<td>contact resistance*</td>
<td></td>
<td></td>
<td></td>
<td>≤ 1 mOhm</td>
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<td>current carrying capacity**</td>
<td>14 – 18A</td>
<td>ca. 8A</td>
<td>ca. 25A</td>
<td>ca. 25A</td>
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</tr>
</tbody>
</table>

* according to IEC 60352-5
** dependent on the application