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| <div><div></div><div>SEK 18 male low profile solder and press-in</div><div><div></div><div>RoHS compliant</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                |                   |                                               | <div><div>Recommended configuration of plated through holes for press-in termination</div><div><div>In addition to the hot-air-level (HAL), other PCB surfaces are getting more important. Due to their different properties – such as mechanical strength and coefficient of friction – we recommend the following configuration of PCB through holes.</div><div><div>drilled hole <math>\varnothing</math><br/>finished hole <math>\varnothing</math><br/>plating (e.g. Sn)<br/>Cu min. 25 <math>\mu</math>m</div></div><div><table><tr><td rowspan="3">Tin plated PCB (HAL)<br/>acc. to EN 60352-5</td><td>Drilled hole <math>\varnothing</math></td><td>1,15-0,03 mm</td></tr><tr><td>Cu</td><td>min. 25 <math>\mu</math>m</td></tr><tr><td>Sn</td><td>max. 15 <math>\mu</math>m</td></tr><tr><td rowspan="3">Chemical tin plated PCB</td><td>plated hole <math>\varnothing</math></td><td>0,94 - 1,09 mm</td></tr><tr><td>Drilled hole <math>\varnothing</math></td><td>1,15-0,03 mm</td></tr><tr><td>Cu</td><td>min. 25 <math>\mu</math>m</td></tr><tr><td rowspan="3">Gold /Nickel plated PCB</td><td>Sn</td><td>min. 0,8<math>\mu</math>m</td></tr><tr><td>plated hole <math>\varnothing</math></td><td>1,00 - 1,10 mm</td></tr><tr><td>Drilled hole <math>\varnothing</math></td><td>1,15-0,03 mm</td></tr><tr><td rowspan="3">Silver plated PCB</td><td>Cu</td><td>min. 25 <math>\mu</math>m</td></tr><tr><td>Ag</td><td>0,1 - 0,3 <math>\mu</math>m</td></tr><tr><td>plated hole <math>\varnothing</math></td><td>1,00 - 1,10 mm</td></tr><tr><td rowspan="3">Copper plated PCB (OSP)</td><td>Drilled hole <math>\varnothing</math></td><td>1,15-0,03 mm</td></tr><tr><td>Cu</td><td>min. 25 <math>\mu</math>m</td></tr><tr><td>plated hole <math>\varnothing</math></td><td>1,00 - 1,10 mm</td></tr></table></div></div></div> |                                                     |   |   | Tin plated PCB (HAL)<br>acc. to EN 60352-5 | Drilled hole $\varnothing$                                                     | 1,15-0,03 mm | Cu | min. 25 $\mu$ m              | Sn                                                  | max. 15 $\mu$ m | Chemical tin plated PCB | plated hole $\varnothing$       | 0,94 - 1,09 mm         | Drilled hole $\varnothing$ | 1,15-0,03 mm | Cu                         | min. 25 $\mu$ m              | Gold /Nickel plated PCB | Sn | min. 0,8 $\mu$ m                    | plated hole $\varnothing$ | 1,00 - 1,10 mm | Drilled hole $\varnothing$ | 1,15-0,03 mm       | Silver plated PCB | Cu | min. 25 $\mu$ m | Ag                    | 0,1 - 0,3 $\mu$ m        | plated hole $\varnothing$ | 1,00 - 1,10 mm | Copper plated PCB (OSP) | Drilled hole $\varnothing$                               | 1,15-0,03 mm | Cu | min. 25 $\mu$ m        | plated hole $\varnothing$ | 1,00 - 1,10 mm |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Tin plated PCB (HAL)<br>acc. to EN 60352-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Chemical tin plated PCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | plated hole $\varnothing$                                                      | 0,94 - 1,09 mm    |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
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| Gold /Nickel plated PCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Silver plated PCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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0,3 $\mu$ m |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
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1,10 mm    |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Copper plated PCB (OSP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | plated hole $\varnothing$                                                      | 1,00 - 1,10 mm    |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| <div><div>General information</div><div><table><tr><td>Design</td><td colspan="3">IEC 60603-13</td></tr><tr><td>No. of contacts</td><td colspan="3">6,10,14,16,20,26,30,34,40,50,60,64</td></tr><tr><td>Contact spacing</td><td colspan="3">2,54 mm x 2,54 mm</td></tr><tr><td>Test voltage Ur.m.s</td><td colspan="3">1 kV</td></tr><tr><td>Working voltage</td><td colspan="3">500 V for pollution degree 1</td></tr><tr><td>Working current acc. to IEC 60512-2</td><td colspan="3">See derating diagram</td></tr><tr><td>Contact resistance</td><td colspan="3">max. 20mOhm</td></tr><tr><td>Insulation resistance</td><td colspan="3">min. 10<sup>9</sup>Ohm</td></tr><tr><td>Temperature range</td><td colspan="3">-55°C ... +125°C (solder)<br/>-55°C ... +105°C (press-in)</td></tr><tr><td>Termination technology</td><td colspan="3">solder, press-in</td></tr><tr><td>Clearance &amp; creepage distance</td><td colspan="3">min. 0,5 mm clearance min. 0,56 creepage</td></tr><tr><td rowspan="6">Insertion and withdrawal forces</td><td colspan="2">6-pole max. 12N for PL1-2 / 18N for PL3</td><td>; 30-pole max. 60N for PL1-2 / 90N for PL3</td></tr><tr><td colspan="2">10-pole max. 20N for PL1-2 / 30N for PL3</td><td>; 34-poles max. 68N for PL1-2 / 102N for PL3</td></tr><tr><td colspan="2">14-pole max. 28N for PL1-2 / 42 for PL3</td><td>; 40-poles max. 80N for PL1-2 / 120N for PL3</td></tr><tr><td colspan="2">16-pole max. 32N for PL1-2 / 48N for PL3</td><td>; 50-poles max. 100N for PL1-2 / 150N for PL3</td></tr><tr><td colspan="2">20-pole max. 40N for PL1-2 / 60N for PL3</td><td>; 60-poles max. 120N for PL1-2 / 180N for PL3</td></tr><tr><td colspan="2">26-pole max. 52N for PL1-2 / 78N for PL3</td><td>; 64-poles max. 128N for PL1-2 / 192N for PL3</td></tr><tr><td rowspan="4">Mating cycles</td><td colspan="2">S4 surface treatment</td><td>Au over PdNi (min. 0,76 <math>\mu</math>m)</td></tr><tr><td>PL 1 acc. to IEC 60603-13</td><td>500 mating cycles</td><td>10 days gas test</td></tr><tr><td>PL 2 acc. to IEC 60603-13</td><td>250 mating cycles</td><td>4 days gas test</td></tr><tr><td>PL 3 acc. to IEC 60603-13</td><td>50 mating cycles</td><td>No gas test</td></tr><tr><td>UL file</td><td colspan="3">E 102079</td></tr><tr><td>RoHS – compliant</td><td colspan="3">Yes</td></tr><tr><td>Leadfree</td><td colspan="3">Yes</td></tr><tr><td>Hot plugging</td><td colspan="3">No</td></tr></table></div></div> |                                                                                |                   |                                               | Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IEC 60603-13                                        |   |   | No. of contacts                            | 6,10,14,16,20,26,30,34,40,50,60,64                                             |              |    | Contact spacing              | 2,54 mm x 2,54 mm                                   |                 |                         | Test voltage Ur.m.s             | 1 kV                   |                            |              | Working voltage            | 500 V for pollution degree 1 |                         |    | Working current acc. to IEC 60512-2 | See derating diagram      |                |                            | Contact resistance | max. 20mOhm       |    |                 | Insulation resistance | min. 10 <sup>9</sup> Ohm |                           |                | Temperature range       | -55°C ... +125°C (solder)<br>-55°C ... +105°C (press-in) |              |    | Termination technology | solder, press-in          |                |  | Clearance & creepage distance | min. 0,5 mm clearance min. 0,56 creepage |  |  | Insertion and withdrawal forces | 6-pole max. 12N for PL1-2 / 18N for PL3 |  | ; 30-pole max. 60N for PL1-2 / 90N for PL3 | 10-pole max. 20N for PL1-2 / 30N for PL3 |  | ; 34-poles max. 68N for PL1-2 / 102N for PL3 | 14-pole max. 28N for PL1-2 / 42 for PL3 |  | ; 40-poles max. 80N for PL1-2 / 120N for PL3 | 16-pole max. 32N for PL1-2 / 48N for PL3 |  | ; 50-poles max. 100N for PL1-2 / 150N for PL3 | 20-pole max. 40N for PL1-2 / 60N for PL3 |  | ; 60-poles max. 120N for PL1-2 / 180N for PL3 | 26-pole max. 52N for PL1-2 / 78N for PL3 |  | ; 64-poles max. 128N for PL1-2 / 192N for PL3 | Mating cycles | S4 surface treatment |  | Au over PdNi (min. 0,76 $\mu$ m) | PL 1 acc. to IEC 60603-13 | 500 mating cycles | 10 days gas test | PL 2 acc. to IEC 60603-13 | 250 mating cycles | 4 days gas test | PL 3 acc. to IEC 60603-13 | 50 mating cycles | No gas test | UL file | E 102079 |  |  | RoHS – compliant | Yes |  |  | Leadfree | Yes |  |  | Hot plugging | No |  |  |
| Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| No. of contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Contact spacing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Test voltage Ur.m.s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Working voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Working current acc. to IEC 60512-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Contact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | min. 10 <sup>9</sup> Ohm                                                       |                   |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Temperature range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -55°C ... +125°C (solder)<br>-55°C ... +105°C (press-in)                       |                   |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Termination technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Clearance & creepage distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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 |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Insertion and withdrawal forces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6-pole max. 12N for PL1-2 / 18N for PL3                                        |                   | ; 30-pole max. 60N for PL1-2 / 90N for PL3    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
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34-poles max. 68N for PL1-2 / 102N for PL3  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
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40-poles max. 80N for PL1-2 / 120N for PL3  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
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50-poles max. 100N for PL1-2 / 150N for PL3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
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60-poles max. 120N for PL1-2 / 180N for PL3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
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64-poles max. 128N for PL1-2 / 192N for PL3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |   |                                            |                                                                                |              |    |                              |                                                     |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
| Mating cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| RoHS – compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Hot plugging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <div><div>Insulator material</div><div><table><tr><td>Material</td><td colspan="3">PBT (thermoplastics, glass fiber reinforcement 30%)</td></tr><tr><td>Color</td><td colspan="3">black (RAL 7001) or grey (RAL 7032) for solder<br/>grey (RAL 7053) for press-in</td></tr><tr><td>UL classification</td><td colspan="3">UL94-V0</td></tr><tr><td>Material group acc. IEC 60664-1</td><td colspan="3">IIIa (175 &lt; CTI &lt; 400)</td></tr><tr><td>NF F 16-101 classification</td><td colspan="3">I3,F3</td></tr></table></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                |                   |                                               | Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PBT (thermoplastics, glass fiber reinforcement 30%) |   |   | Color                                      | black (RAL 7001) or grey (RAL 7032) for solder<br>grey (RAL 7053) for press-in |              |    | UL classification            | UL94-V0                                             |                 |                         | Material group acc. IEC 60664-1 | IIIa (175 < CTI < 400) |                            |              | NF F 16-101 classification | I3,F3                        |                         |    |                                     |                           |                |                            |                    |                   |    |                 |                       |                          |                           |                |                         |                                                          |              |    |                        |                           |                |  |                               |                                          |  |  |                                 |                                         |  |                                            |                                          |  |                                              |                                         |  |                                              |                                          |  |                                               |                                          |  |                                               |                                          |  |                                               |               |                      |  |                                  |                           |                   |                  |                           |                   |                 |                           |                  |             |         |          |  |  |                  |     |  |  |          |     |  |  |              |    |  |  |
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| Material group acc. IEC 60664-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| NF F 16-101 classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| <div><div>Contact material</div><div><table><tr><td>Contact material</td><td colspan="3">Copper alloy</td></tr><tr><td>Plating termination zone</td><td colspan="3">Sn over Ni for solder, Ni for press-in</td></tr><tr><td>Plating contact sliding side</td><td colspan="3">Au or Au over PdNi (according to performance level)</td></tr></table></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                    | Copper alloy                                        |   |   | Plating termination zone                   | Sn over Ni for solder, Ni for press-in                                         |              |    | Plating contact sliding side | Au or Au over PdNi (according to performance level) |                 |                         |                                 |                        |                            |              |                            |                              |                         |    |                                     |                           |                |                            |                    |                   |    |   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| Contact material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Plating termination zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Plating contact sliding side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <div><div>Derating diagram acc to IEC 60512-2 (Current carrying capacity)</div><div><div>The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.<br/>The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given without exceeding the maximum temperature.<br/>Control and test procedures according to DIN IEC 60512.</div><div><div>1) Temperature rise<br/>2) Derating<br/>3) Derating curve at I max x 0.8(IEC 60512-2)</div><div></div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                      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| <div><div><div><div><div></div><div>All Dimensions in mm<br/>Original Size DIN A3</div></div><div><div></div><div>All rights reserved<br/>Department EC PD – DE</div></div><div>HARTING Electronics GmbH<br/>D-32339 Espelkamp</div></div><div><div>Scale<br/>1:1</div><div>Free size tol.</div><div>Created by<br/>STORCK</div><div>Inspected by<br/>LEHNERT</div><div>Standardisation<br/>HOFFMANN</div><div>Date<br/>2016-09-05</div><div>State<br/>Final Release</div></div><div><div>Title<br/>SEK 18 male low profile solder and press-in</div><div>Doc-Key / ECM-Nr.<br/>100554984/UGD/001/F<br/>500000107692</div></div><div><div>Type<br/>DS</div><div>Number<br/>09181100001</div><div>Rev.<br/>F</div><div>Page<br/>1/1</div></div></div></div>                                                                                                                                                                                                                                                                             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