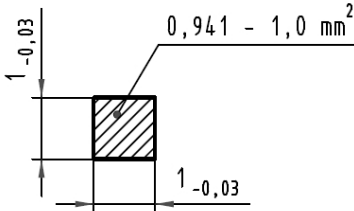
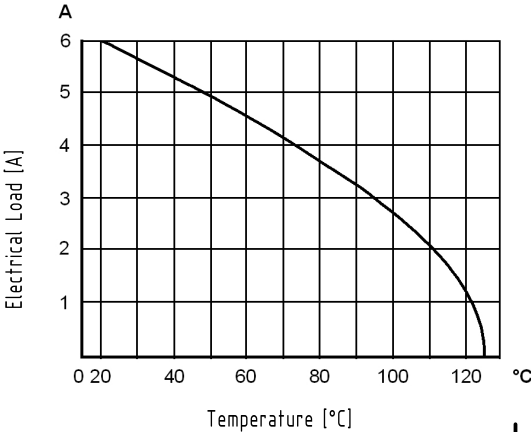


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|                                                                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2                                       | 3                  | 4               | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                                                   | 7                        | 8               |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| A                                                                                     |  <div>DIN power female connector angled</div> <div>RoHS compliant </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                    |                 | <div>Soldering instructions</div> <p>The connectors should be protected when being soldered in a dip, flow or film soldering baths. Otherwise, they might become contaminated as a result of soldering operations or deformed as a result of overheating.</p> <p>(1) For prototypes and short runs protect the connectors with an industrial adhesive tape, e.g. Tesaband 4331 (www.tesa.de). Cover the underside of the connector moulding and the adjacent parts of the pcb as well as the open sides of the connector. This will prevent heat and gases of the soldering apparatus from damaging the connector. About 140 + 5 mm of the tape should suffice.</p> <p>(2) For large series a jig is recommended. Its protective cover with a fast action mechanical locking device shields the connectors from gas and heat generated by the soldering apparatus. As an additional protection a foil can be used for covering the parts that should not be soldered.</p> |                                                     |                          |                 | A                                                                                     |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
|                                                                                       | <div>General information</div> <table> <tr> <td>Design</td><td>IEC 60603-2</td><td>types: F female</td></tr> <tr> <td>No. of contacts</td><td>max. 48</td><td></td></tr> <tr> <td>Contact spacing</td><td>5,08 mm / 3,81 mm</td><td></td></tr> <tr> <td>Test voltage</td><td>1550V contact/contact</td><td>2500V contact/ground</td></tr> <tr> <td>Contact resistance</td><td>max. 15mOhm</td><td></td></tr> <tr> <td>Insulation resistance</td><td>min. 10<sup>9</sup>Ohm</td><td></td></tr> <tr> <td>Working current</td><td>max. 6A at 20°C (see derating diagram)</td><td></td></tr> <tr> <td>Temperature range</td><td>-55°C ... +125°C</td><td></td></tr> <tr> <td>Termination technology</td><td>solder pins</td><td></td></tr> <tr> <td>Clearance</td><td>min. 1,6 mm</td><td></td></tr> <tr> <td>Creepage</td><td>min. 3,0 mm</td><td></td></tr> <tr> <td>Insertion and withdrawal force</td><td>32pole max. 50N</td><td></td></tr> <tr> <td></td><td>48pole max. 75N</td><td></td></tr> <tr> <td>Mating cycles</td><td>- PL1 acc. to IEC 60603-2 =&gt;</td><td>500 mating cycles</td></tr> <tr> <td></td><td>- PL2 acc. to IEC 60603-2 =&gt;</td><td>400 mating cycles</td></tr> <tr> <td></td><td>- PL3 acc. to IEC 60603-2 =&gt;</td><td>50 mating cycles</td></tr> <tr> <td>UL file</td><td>E102079</td><td></td></tr> <tr> <td>RoHS - compliant</td><td>Yes</td><td></td></tr> <tr> <td>Leadfree</td><td>Yes</td><td></td></tr> <tr> <td>Hot plugging</td><td>No</td><td></td></tr> </table> |                                         |                    |                 | Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IEC 60603-2                                         | types: F female          | No. of contacts | max. 48                                                                               |                     | Contact spacing                    | 5,08 mm / 3,81 mm      |                    | Test voltage | 1550V contact/contact | 2500V contact/ground  | Contact resistance | max. 15mOhm |          | Insulation resistance | min. 10 <sup>9</sup> Ohm |                          | Working current | max. 6A at 20°C (see derating diagram)  |  | Temperature range | -55°C ... +125°C |                   | Termination technology | solder pins |         | Clearance          | min. 1,6 mm |  | Creepage            | min. 3,0 mm |  | Insertion and withdrawal force | 32pole max. 50N |  |  | 48pole max. 75N |  | Mating cycles | - PL1 acc. to IEC 60603-2 => | 500 mating cycles |  | - PL2 acc. to IEC 60603-2 => | 400 mating cycles |  | - PL3 acc. to IEC 60603-2 => | 50 mating cycles | UL file | E102079 |  | RoHS - compliant | Yes |  | Leadfree | Yes |  | Hot plugging | No |  | <div>Cross section of solder pins</div>  |  |  |  | B |
| Design                                                                                | IEC 60603-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | types: F female                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| No. of contacts                                                                       | max. 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Contact spacing                                                                       | 5,08 mm / 3,81 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Test voltage                                                                          | 1550V contact/contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2500V contact/ground                    |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Contact resistance                                                                    | max. 15mOhm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Insulation resistance                                                                 | min. 10 <sup>9</sup> Ohm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Working current                                                                       | max. 6A at 20°C (see derating diagram)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Temperature range                                                                     | -55°C ... +125°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Termination technology                                                                | solder pins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Clearance                                                                             | min. 1,6 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Creepage                                                                              | min. 3,0 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Insertion and withdrawal force                                                        | 32pole max. 50N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
|                                                                                       | 48pole max. 75N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Mating cycles                                                                         | - PL1 acc. to IEC 60603-2 =>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 500 mating cycles                       |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
|                                                                                       | - PL2 acc. to IEC 60603-2 =>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 400 mating cycles                       |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
|                                                                                       | - PL3 acc. to IEC 60603-2 =>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 50 mating cycles                        |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| UL file                                                                               | E102079                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| RoHS - compliant                                                                      | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Leadfree                                                                              | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Hot plugging                                                                          | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| B                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| C                                                                                     | <div>Insulator material</div> <table> <tr> <td>Material</td><td>PBT (thermoplastics, glass fiber reinforcement 30%)</td></tr> <tr> <td>Colour</td><td>RAL 7032 (grey)</td></tr> <tr> <td>UL classification</td><td>UL 94-V0</td></tr> <tr> <td>Material group acc. to IEC 60664-1</td><td>IIIa (175 ≤ CTI &lt; 400)</td></tr> <tr> <td>NFF classification</td><td>I3, F4</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                    |                 | Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PBT (thermoplastics, glass fiber reinforcement 30%) | Colour                   | RAL 7032 (grey) | UL classification                                                                     | UL 94-V0            | Material group acc. to IEC 60664-1 | IIIa (175 ≤ CTI < 400) | NFF classification | I3, F4       |                       |                       |                    |             | C        |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Material                                                                              | PBT (thermoplastics, glass fiber reinforcement 30%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Colour                                                                                | RAL 7032 (grey)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| UL classification                                                                     | UL 94-V0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Material group acc. to IEC 60664-1                                                    | IIIa (175 ≤ CTI < 400)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| NFF classification                                                                    | I3, F4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
|                                                                                       | <div>Contact material</div> <table> <tr> <td>Contact material</td><td>Copper alloy</td></tr> <tr> <td>Plating termination zone</td><td>Sn over Ni</td></tr> <tr> <td>Plating contact zone</td><td>Au over Ni</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                    |                 | Contact material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Copper alloy                                        | Plating termination zone | Sn over Ni      | Plating contact zone                                                                  | Au over Ni          |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Contact material                                                                      | Copper alloy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Plating termination zone                                                              | Sn over Ni                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| Plating contact zone                                                                  | Au over Ni                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| D                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 | D                                                                                     |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| E                                                                                     | <div>Derating diagram acc. to IEC 60512-5 (Current carrying capacity)</div> <p>The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.</p> <p>The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.</p> <p>Control and test procedures according to DIN IEC 60512-5</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |                          |                 | E                                                                                     |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| F                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                    |                 | <table> <tr> <td rowspan="2"></td><td>All rights reserved</td><td>Created by</td><td>Inspected by</td><td>Standardisation</td><td>Date</td><td>State</td></tr> <tr> <td>Department EC PD - DE</td><td>HAGEMEYERE</td><td>TADJE</td><td>HOFFMANN</td><td>2014-09-12</td><td>Final Release</td></tr> <tr> <td colspan="2">HARTING Electronics GmbH</td><td colspan="4">Title DIN power female connector angled</td><td>Doc-Key / ECM-Nr.</td></tr> <tr> <td colspan="2">D-32339 Espelkamp</td><td>Type DS</td><td colspan="3" rowspan="4">Number 09062200201</td><td>100580671/UGD/000/A</td></tr> <tr> <td colspan="2"></td><td colspan="4"></td><td>500000076069</td></tr> <tr> <td colspan="2"></td><td colspan="4"></td><td>Rev. A</td></tr> <tr> <td colspan="2"></td><td colspan="4"></td><td>Page 1/1</td></tr> </table>                                                        |                                                     |                          |                 |  | All rights reserved | Created by                         | Inspected by           | Standardisation    | Date         | State                 | Department EC PD - DE | HAGEMEYERE         | TADJE       | HOFFMANN | 2014-09-12            | Final Release            | HARTING Electronics GmbH |                 | Title DIN power female connector angled |  |                   |                  | Doc-Key / ECM-Nr. | D-32339 Espelkamp      |             | Type DS | Number 09062200201 |             |  | 100580671/UGD/000/A |             |  |                                |                 |  |  | 500000076069    |  |               |                              |                   |  |                              | Rev. A            |  |                              |                  |         |         |  | Page 1/1         | F   |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
|  | All rights reserved                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Created by                              | Inspected by       | Standardisation | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | State                                               |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
|                                                                                       | Department EC PD - DE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | HAGEMEYERE                              | TADJE              | HOFFMANN        | 2014-09-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Final Release                                       |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| HARTING Electronics GmbH                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Title DIN power female connector angled |                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Doc-Key / ECM-Nr.                                   |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
| D-32339 Espelkamp                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Type DS                                 | Number 09062200201 |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100580671/UGD/000/A                                 |                          |                 |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |
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|                                                                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2                                       | 3                  | 4               | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                                                   | 7                        | 8               |                                                                                       |                     |                                    |                        |                    |              |                       |                       |                    |             |          |                       |                          |                          |                 |                                         |  |                   |                  |                   |                        |             |         |                    |             |  |                     |             |  |                                |                 |  |  |                 |  |               |                              |                   |  |                              |                   |  |                              |                  |         |         |  |                  |     |  |          |     |  |              |    |  |                                                                                                                             |  |  |  |   |

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