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                                                                                                                                                                                                                                                                                                                                                           |                     |   | <div>Installation of crimp contacts</div> <div><div>Fitting the crimp contacts</div><div>After crimping the wires onto the contacts with the help of a crimping tool or an automatic crimping machine the contacts should be correctly oriented and inserted into the cavities of the connector moulding in the required configuration. They snap into position and are firmly held in place. A light pull on the wire assures the correct tensile strength of the contact. When using stranded wires with a gauge below 0.37 mm<sup>2</sup> an insertion tool is necessary.</div><div>Removing the crimp contacts</div><div>The removal tool is inserted into a slot on the side of the respective crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damage to the contact/wire which can be repositioned/refitted as necessary. The drawing demonstrates the crimp removal procedure(max. 5x).</div></div> <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div></div></div> |                                                    |                  | A               |                   |          |                                    |                        |                     |              |                  |              |                          |             |                      |                       |                           |  |                 |                                        |  |                   |                  |  |                        |       |  |           |             |  |          |             |  |                                |                  |  |               |                              |                   |  |                              |                   |         |         |  |                  |     |  |          |     |  |              |    |  |   |
| B                                  | <div><div>General information</div><table><tr><td>Design</td><td>IEC 60603-2</td><td>types: 2F female</td></tr><tr><td>No. of contacts</td><td>max. 24</td><td></td></tr><tr><td>Contact spacing</td><td>5,08 mm</td><td>3,81mm between rows</td></tr><tr><td>Test voltage</td><td>1550V</td><td></td></tr><tr><td>Contact resistance</td><td>max. 15mOhm</td><td></td></tr><tr><td>Insulation resistance</td><td>min. 10<sup>10</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>crimp</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>24-pole max. 37N</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>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></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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      |              | Contact resistance       | max. 15mOhm |                      | Insulation resistance | min. 10 <sup>10</sup> Ohm |  | Working current | max. 6A at 20°C (see derating diagram) |  | Temperature range | -55°C ... +125°C |  | Termination technology | crimp |  | Clearance | min. 1,6 mm |  | Creepage | min. 3,0 mm |  | Insertion and withdrawal force | 24-pole max. 37N |  | Mating cycles | - PL1 acc. to IEC 60603-2 => | 500 mating cycles |  | - PL2 acc. to IEC 60603-2 => | 400 mating cycles | UL file | E102079 |  | RoHS - compliant | Yes |  | Leadfree | Yes |  | Hot plugging | No |  | B |
| Design                             | IEC 60603-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| No. of contacts                    | max. 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Contact spacing                    | 5,08 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Test voltage                       | 1550V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Contact resistance                 | max. 15mOhm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Insulation resistance              | min. 10 <sup>10</sup> Ohm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Working current                    | max. 6A at 20°C (see derating diagram)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Temperature range                  | -55°C ... +125°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Termination technology             | crimp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Mating cycles                      | - PL1 acc. to IEC 60603-2 =>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| UL file                            | E102079                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| C                                  | <div><div>Insulator material</div><table><tr><td>Material</td><td>PC (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>I2, F1</td></tr></table><div><div>Contact material</div><table><tr><td>Contact material</td><td>Copper alloy</td></tr><tr><td>Plating termination zone</td><td>Ni</td></tr><tr><td>Plating contact zone</td><td>Au over PdNi over Ni</td></tr></table></div></div>                                                                                                                                                                                                                                                                                                                                                                     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| Colour                             | RAL 7032 (grey)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| UL classification                  | UL 94-V0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| NFF classification                 | I2, F1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Contact material                   | Copper alloy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Plating termination zone           | Ni                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Plating contact zone               | Au over PdNi over Ni                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| D                                  | <div><div>Derating diagram acc. to IEC 60512-5 (Current carrying capacity)</div><div><div>The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.</div><div>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.</div></div><div><div>Control and test procedures according to DIN IEC 60512-5</div><div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div><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