SERIES: MD | DESCRIPTION: MINI DIN CONNECTOR

FEATURES
- 3~9 pins
- plastic strain relief
- rated voltage: 100 Vac

PART NUMBER KEY

MD - XX
Base Number  Pin Options
30 = 3 pins
40 = 4 pins
50 = 5 pins
60 = 6 pins
70 = 7 pins
80 = 8 pins
90 = 9 pins

SPECIFICATIONS

<table>
<thead>
<tr>
<th>parameter</th>
<th>conditions/description</th>
<th>min</th>
<th>typ</th>
<th>max</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>rated input voltage</td>
<td></td>
<td>100</td>
<td>12</td>
<td>Vdc</td>
<td>Vac</td>
</tr>
<tr>
<td>rated input current</td>
<td>at 100 Vac</td>
<td>1</td>
<td>2</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>at 12 Vdc</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>contact resistance</td>
<td></td>
<td>30</td>
<td></td>
<td>mΩ</td>
<td></td>
</tr>
<tr>
<td>insulation resistance</td>
<td>at 250 Vdc</td>
<td>50</td>
<td></td>
<td>MΩ</td>
<td></td>
</tr>
<tr>
<td>voltage withstand</td>
<td>for 1 minute</td>
<td>250</td>
<td></td>
<td>Vac</td>
<td></td>
</tr>
<tr>
<td>insertion force</td>
<td></td>
<td>4.5</td>
<td>3</td>
<td>kg</td>
<td></td>
</tr>
<tr>
<td>withdrawal force</td>
<td></td>
<td>0.9</td>
<td>3</td>
<td>kg</td>
<td></td>
</tr>
<tr>
<td>operating temperature</td>
<td></td>
<td>-20</td>
<td>105</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>life</td>
<td></td>
<td>5,000</td>
<td></td>
<td>cycles</td>
<td></td>
</tr>
<tr>
<td>RoHS</td>
<td></td>
<td>2011/65/EU</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MECHANICAL DRAWINGS

units: mm [inches]

TOLERANCE: ±0.2mm

---

MATERIAL  PLATING

- shield  brass  nickel
- pin contacts (1~9)  brass  silver
- insulator  Polyamide 6 (PA-1010C2)
- shell  ABS (PA-757)
- cover  UE630 + PELL (LL120)

---

MD-30

---

MD-40

---

MD-50

---

MD-60

---

MD-70

---

MD-80

---

MD-90

---

Additional Resources:  Product Page  |  3D Model
MECHANICAL ASSEMBLY

STEP 1
solder wires to housing (4), assemble metal shield pieces (3) onto housing (4)

STEP 2
assemble plastic shell pieces (2) over metal shield (3)

STEP 3
slide cover (1) over plastic shell (2)

Note:
1. The mechanical assembly is a general graphical representation only. Specific models will differ in actual appearance.
2. The metal shield for MD-90 is a single piece in which the pin housing slides into shield for assembly.
## REVISION HISTORY

<table>
<thead>
<tr>
<th>rev.</th>
<th>description</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>initial release</td>
<td>04/06/2006</td>
</tr>
<tr>
<td>1.01</td>
<td>updated dimensions</td>
<td>02/27/2008</td>
</tr>
<tr>
<td>1.02</td>
<td>added tolerance</td>
<td>12/01/2009</td>
</tr>
<tr>
<td>1.03</td>
<td>added insertion and withdrawal force</td>
<td>05/19/2010</td>
</tr>
<tr>
<td>1.04</td>
<td>new template applied</td>
<td>04/09/2012</td>
</tr>
<tr>
<td>1.05</td>
<td>updated housing</td>
<td>04/24/2012</td>
</tr>
<tr>
<td>1.06</td>
<td>added 9 pin model detail</td>
<td>06/08/2017</td>
</tr>
</tbody>
</table>

The revision history provided is for informational purposes only and is believed to be accurate.