VP-CL Series

1/2/3 POLE HIGH VOLTAGE CONNECTORS
13kV, 13A

- FEATURES
  - Rated Voltage 13kVdc
  - Rated Current 13A
  - Perfect for Internal Wiring
  - Fast Assembly
  - High Flexibility due to Several Mounting Options
  - Clip Lock
  - Made in Germany
  - RoHS compliant

- PRODUCT DESCRIPTION
  The VP-CL series of high voltage connectors is available in 1, 2 or 3 pole versions. A Clip Lock mechanism permits easy mating and unmating and ensures that the plug will be locked to the receptacle when mated. Intended for internal wiring these high voltage connectors feature versatile mounting options. The connectors can be used unmounted with flying leads, mounted as a feedthrough or mounted on the surface of a structural part. Crimp contacts used for easy assembly are available for wire sizes of AWG26 to AWG14.

- CONNECTOR HOUSINGS

<table>
<thead>
<tr>
<th>No. of Poles</th>
<th>Plug</th>
<th>Receptacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VP-CL-1M</td>
<td>VP-CL-1F</td>
</tr>
<tr>
<td>2</td>
<td>VP-CL-2M</td>
<td>VP-CL-2F</td>
</tr>
<tr>
<td>3</td>
<td>VP-CL-3M</td>
<td>VP-CL-3F</td>
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</tbody>
</table>

- CRIMP CONTACTS

<table>
<thead>
<tr>
<th>Conductor</th>
<th>Plug</th>
<th>Receptacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size [AWG]</td>
<td>Area [mm²]</td>
<td>Silver-plated</td>
</tr>
<tr>
<td>26 – 22</td>
<td>0.14 - 0.37</td>
<td>VP-CM-24-AG</td>
</tr>
<tr>
<td>20</td>
<td>0.5</td>
<td>VP-CM-20-AG</td>
</tr>
<tr>
<td>20 – 16</td>
<td>0.75 - 1.0</td>
<td>VP-CM-18-AG</td>
</tr>
<tr>
<td>16 – 15</td>
<td>1.5</td>
<td>VP-CM-16-AG</td>
</tr>
<tr>
<td>14</td>
<td>2.5</td>
<td>VP-CM-14-AG</td>
</tr>
</tbody>
</table>

- SPECIFICATIONS
  - Rated Voltage: 13kVdc
  - Test Voltage: 20kVdc
  - Rated Current: 13A [AWG14 / 2.5mm²]
  - Contact Resistance: ≤ 5mΩ
  - Crimp Contact Material: Brass (CuZn)
  - Crimp Contact Plating: Silver (Ag) or Gold (Au)
  - Crimp Contact Diameter: 1.6mm
  - Contact Rated Temperature: 120°C
  - Mating Cycles: ≥ 1000
  - Housing Material: PBT [UL94 V-0]
  - Operating Temperature: -40°C - +150°C
  - Insulation Group: I [DIN IEC 60664]
  - Crimp Tool: on request
DIMENSIONS

VP-CL-1F
(Cable not included)

Panel cut out feedthrough mounting

Holes for surface mounting

VP-CL-1M

Panel cut out feedthrough mounting

Holes for surface mounting

VP-CL-2F
(Cable not included)

Panel cut out feedthrough mounting

Holes for surface mounting

VP-CL-2M
Disclaimer
The information given in this data sheet is technical data, not assured product characteristics. It has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. The user has to ensure by adequate tests that the product is suitable for his application regarding safety and technical aspects.
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Security Advice
Design, installation and inspection of machinery and devices carrying high voltage require accordingly trained and qualified personnel. Appropriate safety rules and directives must be complied with.
Improper handling of high voltage can mean severe injuries or death and may cause serious collateral damage!