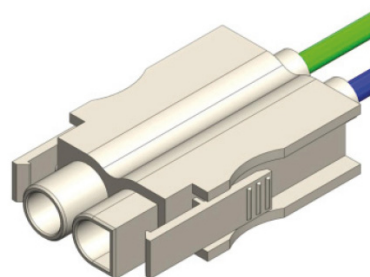


1/2/3 POLE HIGH VOLTAGE CONNECTORS 13kV, 13A

FEATURES

- Rated Voltage 13kV_{DC}
- Rated Current 13A
- Perfect for Internal Wiring
- Fast Assembly
- High Flexibility due to Several Mounting Options
- Clip Lock
- Made in Germany



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

| No. of Poles | Plug | Receptacle |
|--------------|----------|------------|
| 1 | VP-CL-1M | VP-CL-1F |
| 2 | VP-CL-2M | VP-CL-2F |
| 3 | VP-CL-3M | VP-CL-3F |

CRIMP CONTACTS

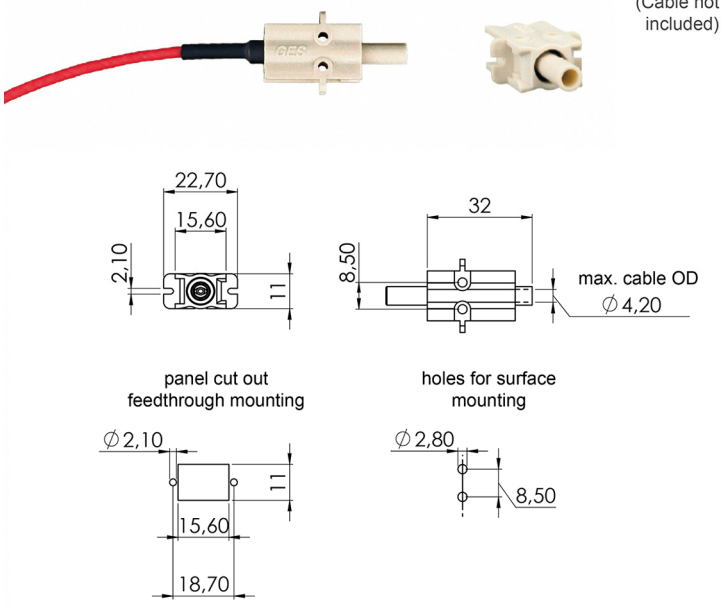
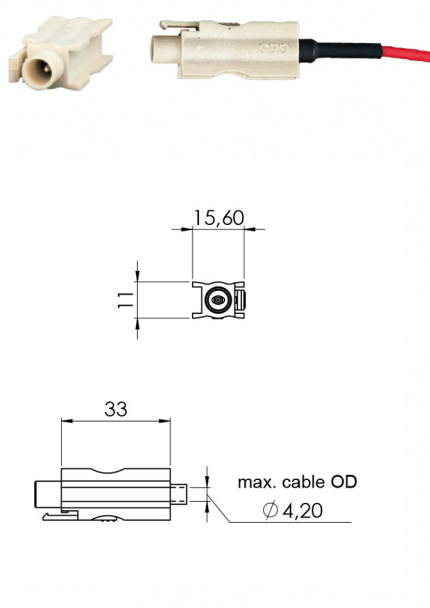
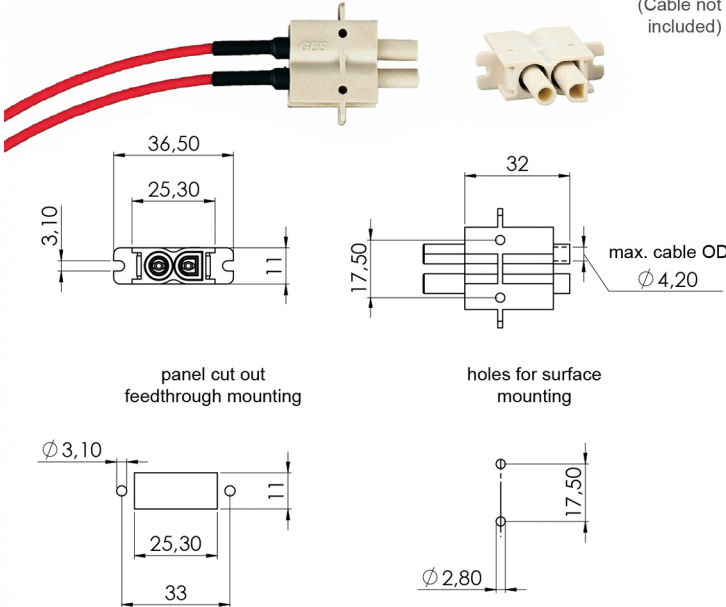
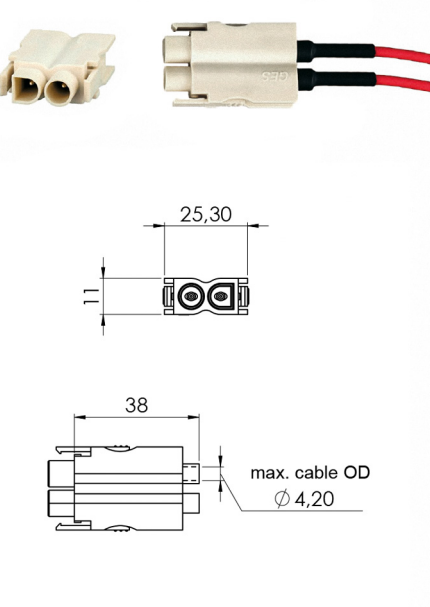
| Conductor | | Plug | | Receptacle | |
|------------|-------------------------|---------------|-------------|---------------|-------------|
| Size [AWG] | Area [mm ²] | Silver-plated | Gold-plated | Silver-plated | Gold-plated |
| 26 – 22 | 0.14 - 0.37 | VP-CM-24-AG | VP-CM-24-AU | VP-CF-24-AG | VP-CF-24-AU |
| 20 | 0.5 | VP-CM-20-AG | VP-CM-20-AU | VP-CF-20-AG | VP-CF-20-AU |
| 20 – 16 | 0.75 - 1.0 | VP-CM-18-AG | VP-CM-18-AU | VP-CF-18-AG | VP-CF-18-AU |
| 16 – 15 | 1.5 | VP-CM-16-AG | VP-CM-16-AU | VP-CF-16-AG | VP-CF-16-AU |
| 14 | 2.5 | VP-CM-14-AG | VP-CM-14-AU | VP-CF-14-AG | VP-CF-14-AU |

SPECIFICATIONS

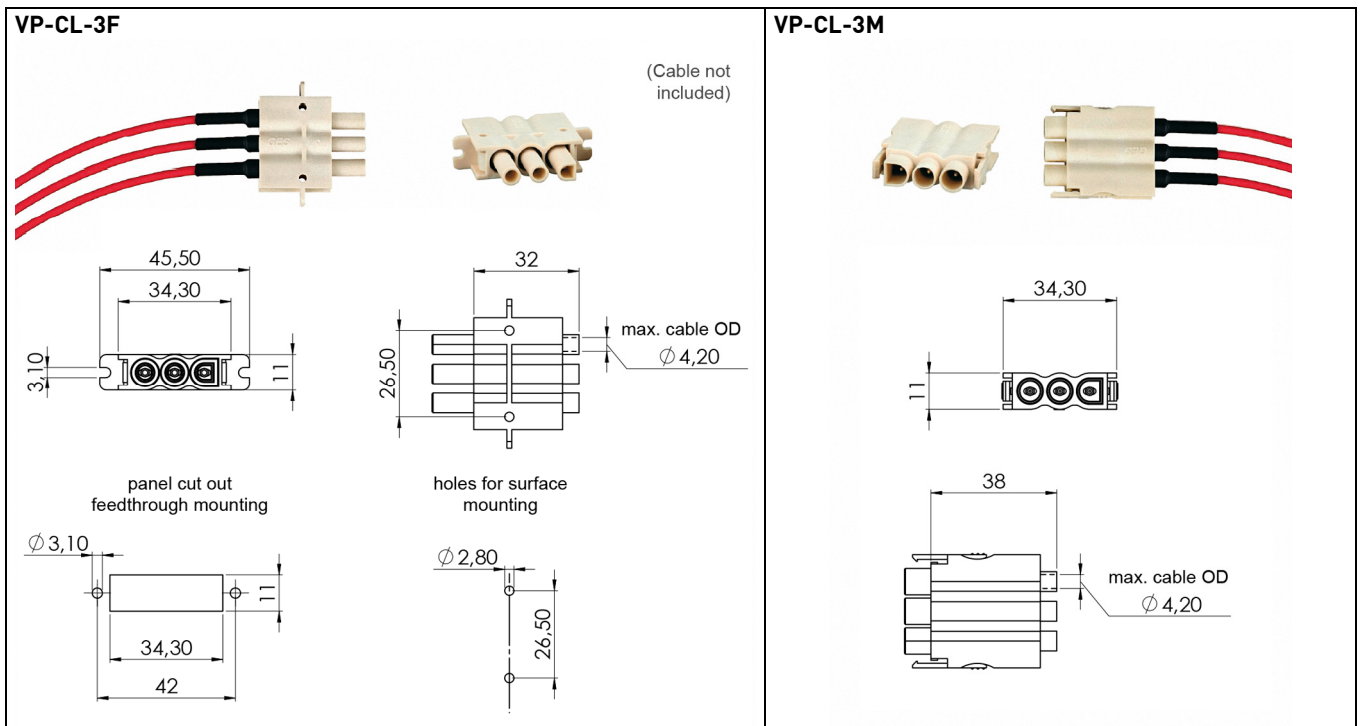
| | |
|----------------------------|-----------------------------------|
| Rated Voltage: | 13kV _{DC} |
| Test Voltage: | 20kV _{DC} |
| Rated Current: | 13A (AWG14 / 2.5mm ²) |
| Contact Resistance: | ≤ 5mΩ |
| Crimp Contact Material: | Brass (CuZn) |
| Crimp Contact Plating: | Silver (Ag) or Gold (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

| | |
|---|--|
| <p>VP-CL-1F</p>  <p>(Cable not included)</p> <p>Dimensions for panel cut out feedthrough mounting: 22,70 (total width), 15,60 (inner width), 2,10 (left offset), 11 (height).</p> <p>Dimensions for holes for surface mounting: 32 (total width), 8,50 (height), max. cable OD ϕ 4,20.</p> <p>Panel cut out feedthrough mounting hole dimensions: ϕ 2,10 (hole diameter), 15,60 (inner width), 18,70 (total width), 11 (height).</p> <p>Holes for surface mounting hole dimensions: ϕ 2,80 (hole diameter), 8,50 (height).</p> | <p>VP-CL-1M</p>  <p>Dimensions for panel cut out feedthrough mounting: 15,60 (inner width), 11 (height).</p> <p>Dimensions for holes for surface mounting: 33 (total width), max. cable OD ϕ 4,20.</p> |
| <p>VP-CL-2F</p>  <p>(Cable not included)</p> <p>Dimensions for panel cut out feedthrough mounting: 36,50 (total width), 25,30 (inner width), 3,10 (left offset), 11 (height).</p> <p>Dimensions for holes for surface mounting: 32 (total width), 17,50 (height), max. cable OD ϕ 4,20.</p> <p>Panel cut out feedthrough mounting hole dimensions: ϕ 3,10 (hole diameter), 25,30 (inner width), 33 (total width), 11 (height).</p> <p>Holes for surface mounting hole dimensions: ϕ 2,80 (hole diameter), 17,50 (height).</p> | <p>VP-CL-2M</p>  <p>Dimensions for panel cut out feedthrough mounting: 25,30 (inner width), 11 (height).</p> <p>Dimensions for holes for surface mounting: 38 (total width), max. cable OD ϕ 4,20.</p> |

DIMENSIONS (cnt'd)



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. hivolt.de GmbH & Co. KG does not assume any liability arising out of the application or use of any product described.

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!