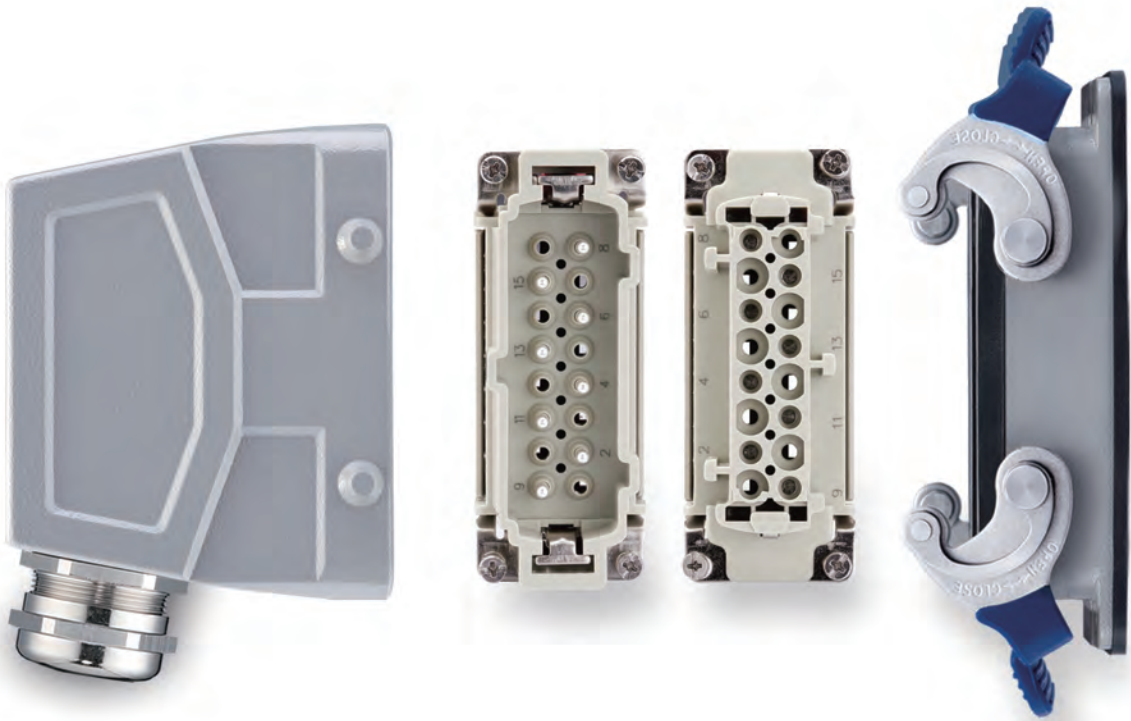




HVES SERIES

High voltage connector(spring piece connector)



HVES SERIES High voltage inserts

Technical characteristics

|                                        |                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------|
| Specifications                         | DIN EN 60 664<br>DIN EN 61 984                                                  |
| Approvals                              |                                                                                 |
| Inserts                                |                                                                                 |
| Number of contacts                     | 3,6,10,12,20+PE<br>+ 2 additional contacts for<br>safe high voltage connections |
| Electrical data acc. to DIN EN 61 984  |                                                                                 |
| -Rated current                         | 16A                                                                             |
| -Rated voltage                         | 830V                                                                            |
| -Rated impulse voltage                 | 8kV                                                                             |
| -Pollution degree                      | 3                                                                               |
| -Pollution degree 2 also               | 16A 1000V 8kV 2                                                                 |
| -or                                    | 16A 720/1250V 8kV 2                                                             |
| -Relay contacts                        | 16A 500V 6kV 3                                                                  |
| Rated voltage acc. to UL               | 600V                                                                            |
| Relay contacts                         | 250V                                                                            |
| Insulation resistance                  | ≥ 10 <sup>10</sup> Ω                                                            |
| Material                               | polycarbonate                                                                   |
| Limiting temperatures                  | -40°C...+125°C                                                                  |
| Flammability acc. to UL 94             | V0                                                                              |
| Mechanical working life(mating cycles) | ≥ 500                                                                           |
| Contacts                               |                                                                                 |
| Material                               | copper alloy                                                                    |
| Surface                                | hard-silver plated                                                              |
| Contact resistance                     | ≤ 3mΩ                                                                           |
| Spring terminal                        |                                                                                 |
| -wire gauge                            | 0.14-2.5mm <sup>2</sup>                                                         |
| -AWG                                   | 26-14                                                                           |
| -Stripping length                      | 7-9mm                                                                           |

HVE-003 High voltage inserts

830V 16A 3+2+⏚

Inserts

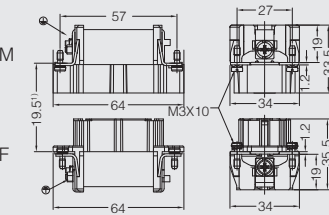
Hoods/Housings: size 10B, please find the details on page 15-39~15-69.

Spring terminal, See P00-35 for the structural characteristics of spring.

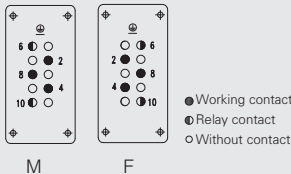


| Insert | Designation | Order No.        |
|--------|-------------|------------------|
| Male   | HVE-003-MS  | 124 003 012 0001 |
| Female | HVE-003-FS  | 124 003 022 0001 |

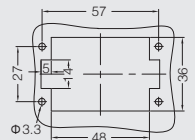
1) Distance for contact max. 21 mm



Contact arrangement view from termination side



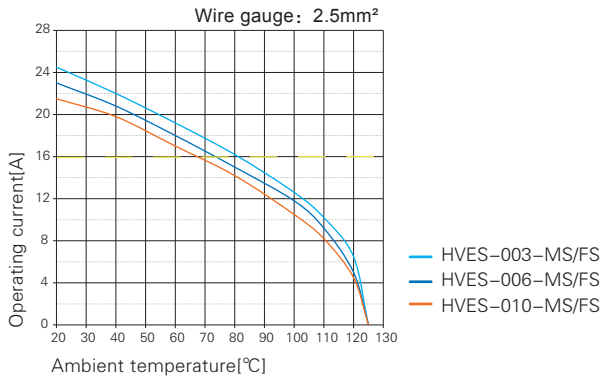
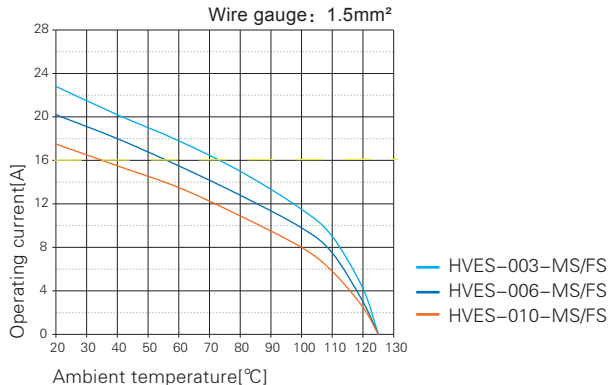
Panel cut out for inserts for use without hoods/housings



Current carrying capacity

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals

Control and test procedures according to DIN EN 60512-5





HVE-006 High voltage inserts

830V 16A 6+2+

ENEC

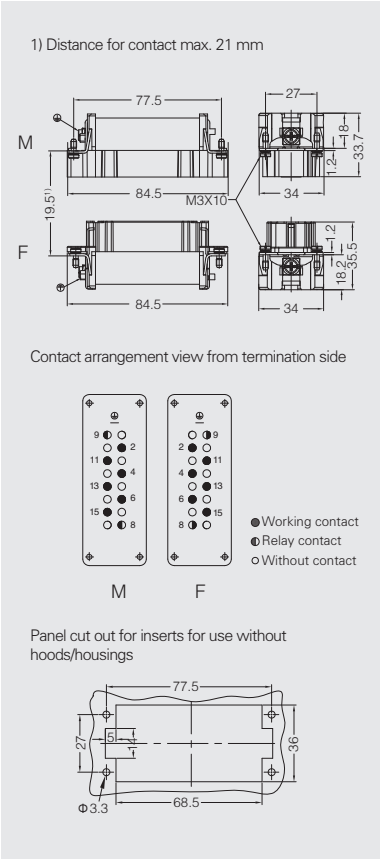
Inserts

Hoods/Housings: size **16B**, please find the details on page 15-70~15-107.

Spring terminal, See P00-35 for the structural characteristics of spring.



| Insert | Designation | Order No.        |
|--------|-------------|------------------|
| Male   | HVE-006-MS  | 124 006 012 0001 |
| Female | HVE-006-FS  | 124 006 022 0001 |



HVE-010 High voltage inserts

830V 16A 10+2+

ENEC

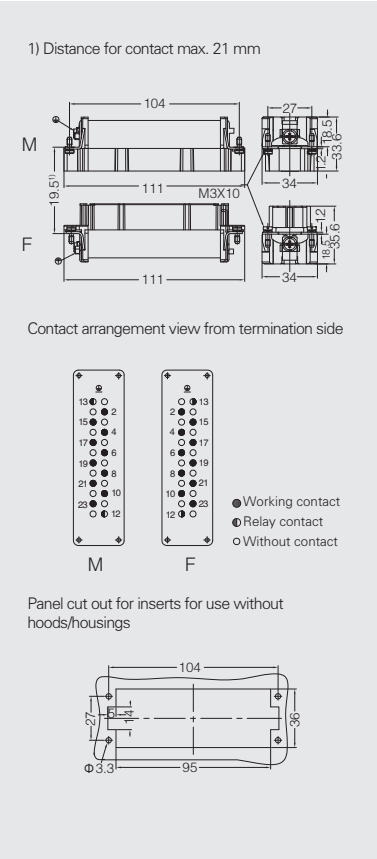
Inserts

Hoods/Housings: size **24B**, please find the details on page 15-108~15-150.

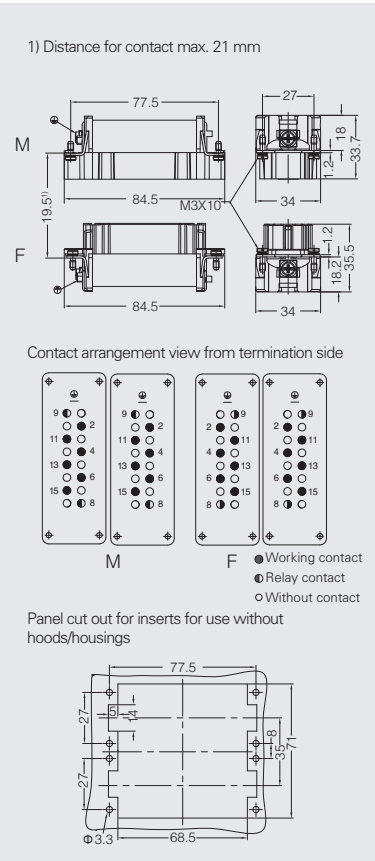
Spring terminal, See P00-35 for the structural characteristics of spring.



| Insert | Designation | Order No.        |
|--------|-------------|------------------|
| Male   | HVE-010-MS  | 124 010 012 0001 |
| Female | HVE-010-FS  | 124 010 022 0001 |



Hoods/Housings: size **32B**, please find the details on page 15-151~15-159.



Hoods/Housings: size 48B, please find the details on page 15-160~15-162.

