

HVES SERIES

High voltage connector(spring piece connector)



HVES

HVES SERIES High voltage inserts

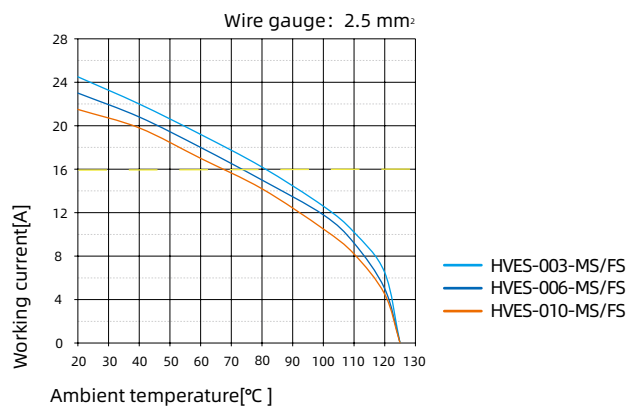
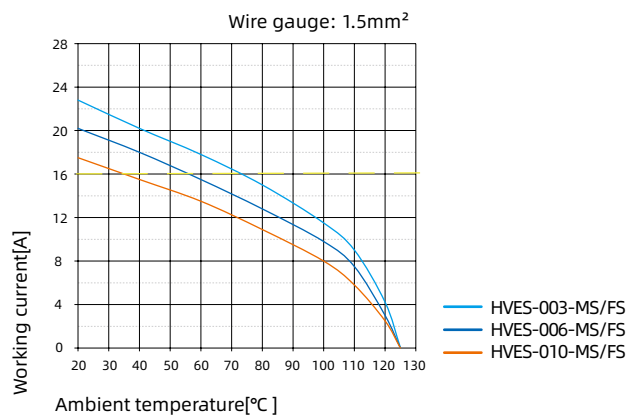
Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Approvals	 ENEC
Inserts	
Number of contacts	3,6,10,12,20+PE
	+ 2 additional contacts for 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	$\geq 10^{10}\Omega$
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	$\leq 3m\Omega$
Spring terminal	
-wire gauge	0.14-2.5mm ²
-AWG	26-14
-Stripping length	7-9mm

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-003 High voltage inserts

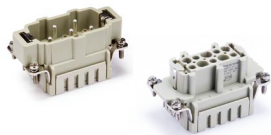
830V 16A 3+2+ 



Inserts

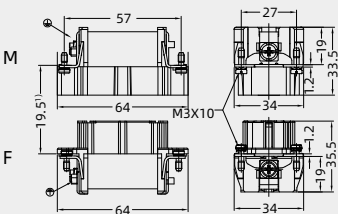
Hoods/Housings: size10B, please find the details on page 15-39~15-69.

Spring terminal, See P00-14 for the structural characteristics of spring.

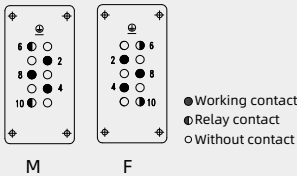


Insert	Designation	Order No.
Male	HVE-003-MS	124 003 012 0001
Female	HVE-003-FS	124 003 022 0001

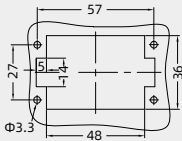
1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



HVE-006 High voltage inserts

830V 16A 6+2+   

Inserts

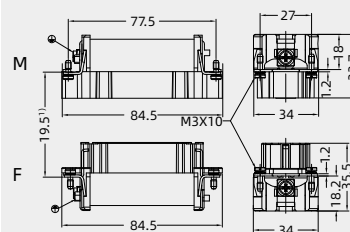
Hoods/Housings: size **16B**, please find the details on page 15-70~15-1071.

Spring terminal, See P00-14 for the structural characteristics of spring.

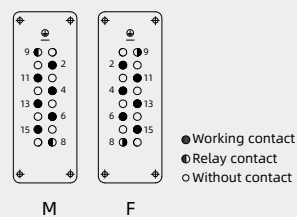


Insert	Designation	Order No.
Male	HVE-006-MS	124 006 012 0001
Female	HVE-006-FS	124 006 022 0001

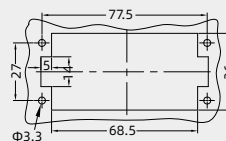
1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



HVE-010 High voltage inserts

830V 16A 10+2+⊕



Inserts

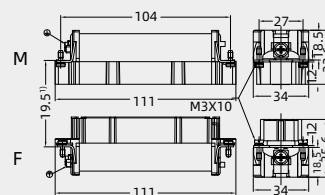
Hoods/Housings: size 24B, please find the details on page 15-108~15-150.

Spring terminal, See P00-14 for the structural characteristics of spring.

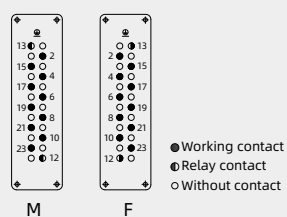


Insert	Designation	Order No.
Male	HVE-010-MS	124 010 012 0001
Female	HVE-010-FS	124 010 022 0001

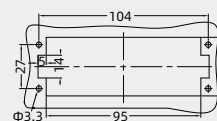
1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



HVE-012 High voltage inserts

830V 16A 12+4+ 

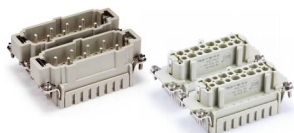
EAC

Inserts



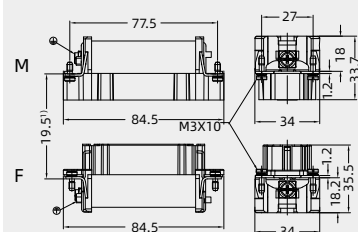
Hoods/Housings: size 32B, please find the details on page 15-151~15-159.

Spring terminal, See P00-14 for the structural characteristics of spring.

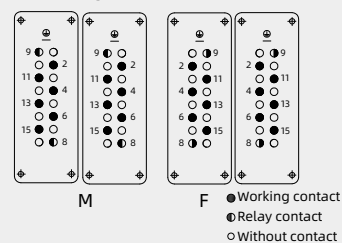


Insert	Designation	Order No.
Male	HVE-006-MS	124 006 012 0001
	HVE-006-MS(7-12)	124 006 012 0002
Female	HVE-006-FS	124 006 022 0001
	HVE-006-FS(7-12)	124 006 022 0002

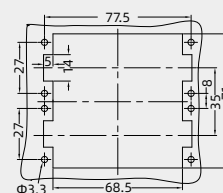
1) Distance for contact max. 21 mm



Contact arrangement view from termination side



Panel cut out for inserts for use without hoods/housings



HVES

HVE-020 High voltage inserts

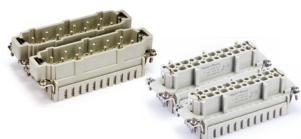
830V 16A 20+4+⊕

EAC

Inserts



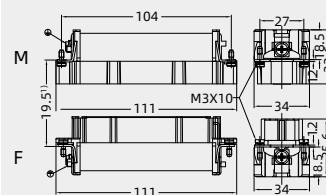
Spring terminal, See P00-14 for the structural characteristics of spring.



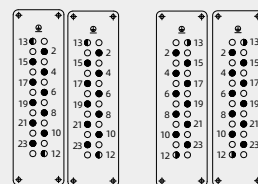
Insert	Designation	Order No.
Male	HVE-010-MS	124 010 012 0001
	HVE-010-MS(11-20)	124 010 012 0002
Female	HVE-010-FS	124 010 022 0001
	HVE-010-FS(11-20)	124 010 022 0002

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

1) Distance for contact max. 21 mm



Contact arrangement view from termination side



M

F

- Working contact
- ① Relay contact
- Without contact

Panel cut out for inserts for use without hoods/housings

