

Chapter 8

Inserts



Heavy duty connectors

- B8.0 Heavy duty connectors
Selection guide
- B8.1 Set general introduction
HA/HE Serie set
- B8.2 Connect the small body
HA Serie connectors Tools
- B8.2 Conventional type plug
HE Serie connectors
- B8.2 Connectors for higher voltages
HVE Serie connectors
- B8.2 High density type plug
HEE/HEEE Serie connectors
- B8.2 D High pin count connectors
HD/HDD Serie connectors
- B8.2 Connector
HQ Serie connectors
- B8.2 Connectors for higher current
HSB Serie connectors
- B8.2 High current connectors
HK/HWK Serie connectors
- B8.3 Modular connectors
HM Serie connectors
- B8.4 Installation elements
Insert mounting / standard code pin

Hoods & housings



- 8.5 Mounting dimensions
- 8.6 A Hoods / housings series IP65
- 8.7 B Hoods / housings series IP65
- 8.8 Special hoods / housings series

1. Specifications

VDE 0110 Concerning clearance and creepage distances
VDE 0627 Connectors and plug devices

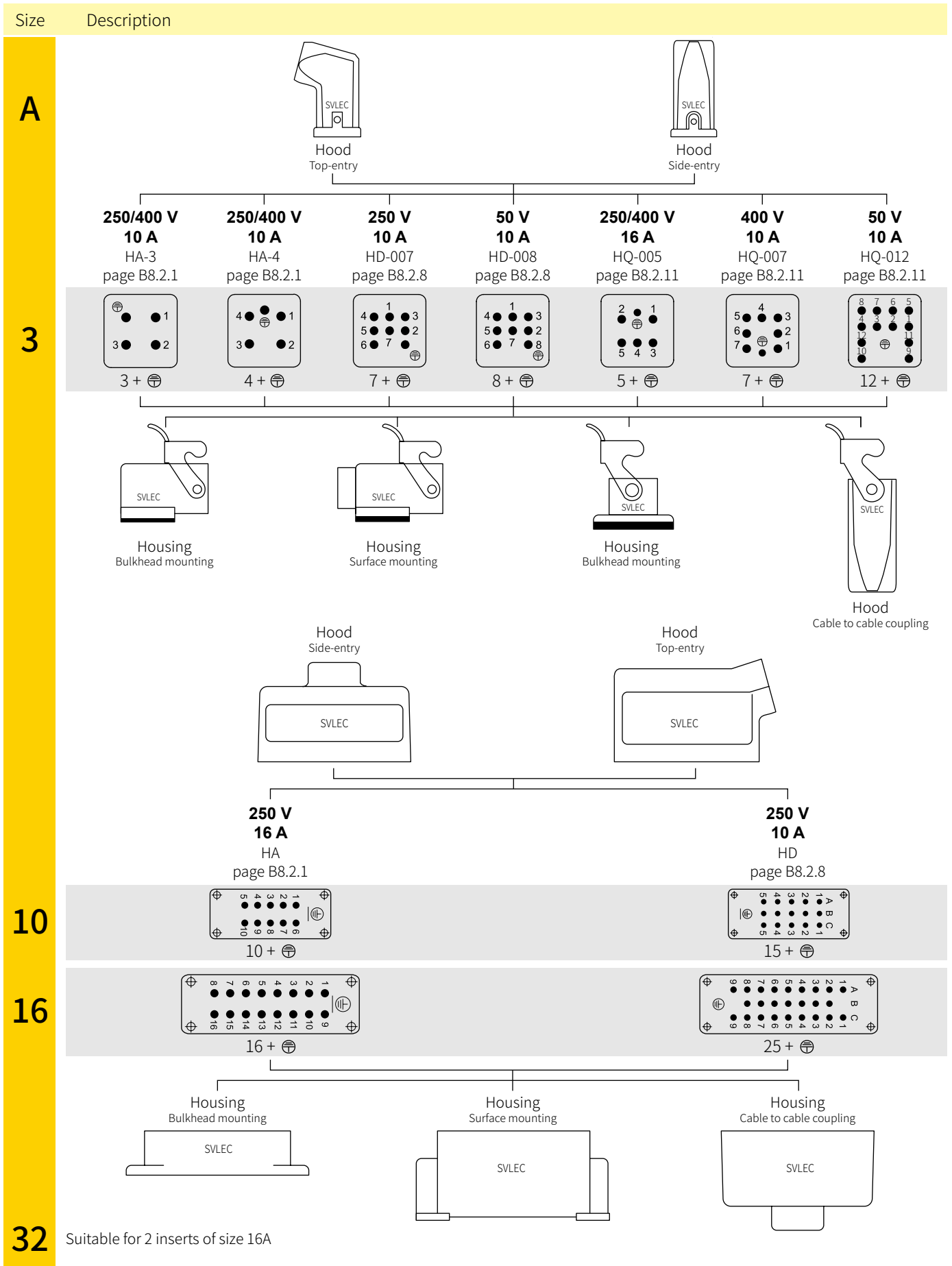
2. Standard

DIN EN 175 301-801
DIN EN 61984

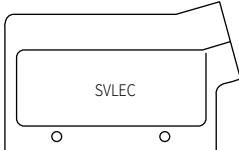
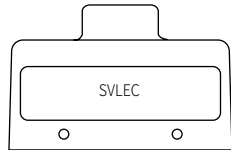
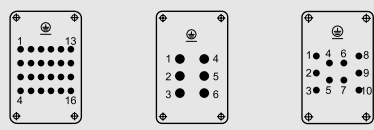



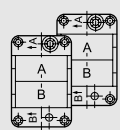
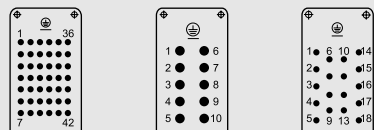



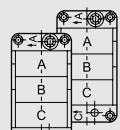
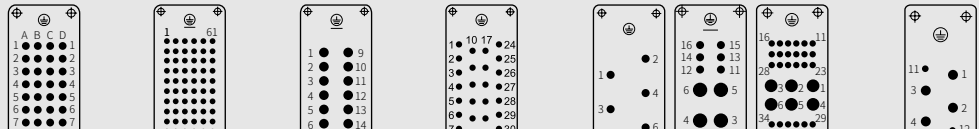








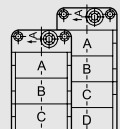
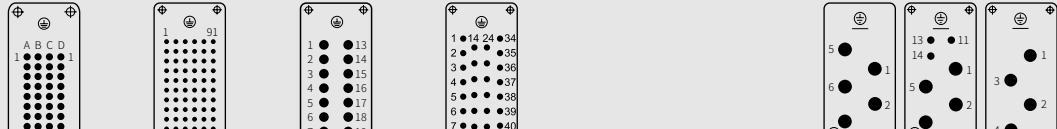







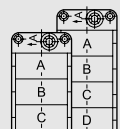
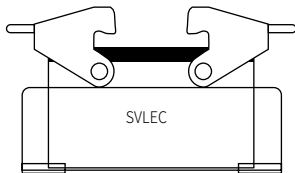
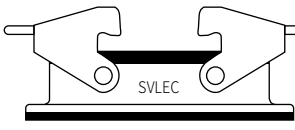
3. Approvals



SUMMARY - SIZE

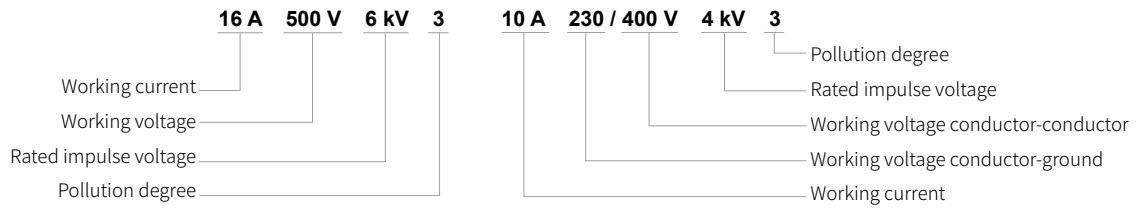


SUMMARY - SIZE

Size	Description	
B	 <p>Hood Top-entry</p>	 <p>Hood Side-entry</p>
	<p>250 V 10 A HD page B8.2.8</p>	<p>250 V 10 A HDD page B8.2.10</p>
	<p>250 V 16 A HE, HESH page B8.2.2</p>	<p>500 V 16 A HEE page B8.2.5</p>
	<p>690/400 V 40/35 A HsB, HWK page B8.2.13 B8.2.14</p>	<p>690/400 V 100/80A HK page B8.2.15</p>
	<p>50-5000 V 5-200 A HM page B8.3.1</p>	
	6	 <p>24 + </p> <p>6 + </p> <p>10 + </p>  <p>2 modules</p>
	10	 <p>42 + </p> <p>10 + </p> <p>18 + </p>  <p>3 modules</p>
16	 <p>40 + </p> <p>72 + </p> <p>16 + </p> <p>32 + </p> <p>6 + </p> <p>6/6+ </p> <p>6/36+ </p> <p>4/2 + </p>  <p>4 modules</p>	
24	 <p>64 + </p> <p>108 + </p> <p>24 + </p> <p>46 + </p> <p>8/0+ </p> <p>6/6+ </p> <p>4/8+ </p>  <p>6 modules</p>	
	<p>Housing Surface mounting</p> 	<p>Housing Bulkhead mounting</p> 
32	Suitable for 2 inserts of size 16B	
48	Suitable for 2 inserts of size 24B	

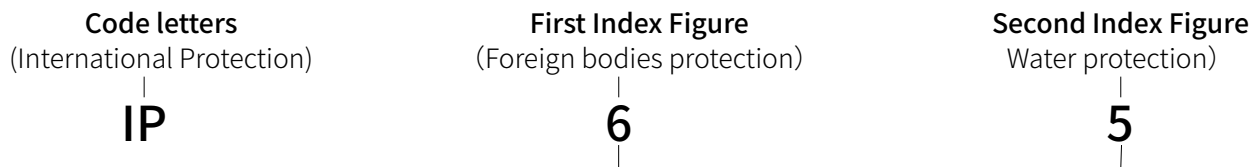
Electrical data



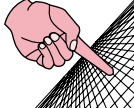
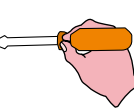



Electrical data for connectors are specified as per DIN EN 61 984.



Housings connector insert protection

The connector's housing, sealing and locking mechanism protect the connection from external influences such as mechanical shocks, foreign bodies, humidity, dust, water or other fluids such as cleansing and cooling agents, oils, etc. The degree of protection the housing offers is explained in the IEC 60 529, DIN EN 60 529, standards that categorize enclosures according to foreign body and water protection.



Index figure	Index figure		Index figure	Index figure	
0	No protection		No protection against accidental contact, no protection against solid foreign bodies	0	No protection against water
1	Protection against large foreign bodies		Protection against contact with any large area by hand and against large solid foreign bodies with $\varnothing > 50\text{mm}$	1	Drip-proof
2	Protection against medium sized foreign bodies		Protection against contact with the fingers, protection against solid foreign bodies with $\varnothing > 12\text{mm}$	2	Drip-proof
3	Protection against small solid foreign bodies		Protection against tools, wires or similar objects with $\varnothing > 2.5\text{mm}$, protection against small foreign solid bodies with $\varnothing > 2.5\text{mm}$	3	Spray-proof
4	Protection against grain-shaped foreign bodies		As 3 however $\varnothing > 1\text{mm}$	4	Splash-proof
5	Protection against injurious deposits of dust		Full protection against contact. Protection against interior injurious dust deposits	5	Hose-proof
6	Protection against ingress of dust		Total protection against contact. Protection against penetration of dust	6	Strong hose-proof
				7	Protected against immersion
				8	Protected against high-pressure

SELECTION GUIDE

M Joint selection guide

Standard for M connector for standard cable

Please note that the pressure range of the M cable connector you choose

Wire gauge	Pole	Wire diameter ϕ	M Mutiple seal joint		
0.5 mm ²	4	6.7 - 9.7	16	20	
AWG 20	6	7.6 - 10.6	16	20	16
	10	9.4 - 12.8	16	20	16 25
	16	10.7 - 13.9		20	16 25
	24	13.5 - 16.7		16	25 32
	35	16 - 18.6			25 32
	40	16.6 - 19.2			25 32
	61	20.3 - 23.1			32

Wire gauge	Pole	Wire diameter ϕ	M Mutiple seal joint		
1.5 mm ²	4	9.7 - 11.8	16	20	25
AWG 16	6	10.8 - 14.2		20	25
	11	13.6 - 16.8			25 32
	16	15.8 - 18.4			25 32
	25	20.2 - 23			32 40
	32	23.8 - 24.5			40
	42	25.8 - 29			40
	61	28.6 - 31.8			40

Wire gauge	Pole	Wire diameter ϕ	M Mutiple seal joint		
0.75 mm ²	4	7.9 - 10.3	16	20	
AWG18	6	8.9 - 12.3	16	20	25
	10	10.4 - 13.8		20	25
	18	13 - 16.2			25 32
	25	15.9 - 18.5			25 32
	32	17.1 - 19.7			25 32
	40	19 - 21.4			32 40
	50	21.3 - 24.1			32 40
	61	22.6 - 25.4			40

Wire gauge	Pole	Wire diameter ϕ	M Mutiple seal joint		
2.5 mm ²	4	11.7 - 14.4	20	25	
AWG 12 - 14	6	13.3 - 16.7		25	32
	11	18 - 20.6			25 32 40
	16	20.6 - 23.4			32 40
	25	26.4 - 29.6			40 50
	34	31.3 - 33.1			40 50
	50	37 - 39.4			50
	61	39-41.5			50

Wire gauge	Pole	Wire diameter ϕ	M Mutiple seal joint		
1 mm ²	4	8.4 - 10.7	16	20	
AWG 16 - 18	6	9.2 - 12.6	16	20	25
	10	11 - 14.4		20	25 32
	16	13 - 16.2			25 32
	24	16.5 - 19.1			25 32 40
	34	19.4 - 21.8			25 32 40
	48	22 - 24.8			32 40
	61	24.5 - 27.2			32 40

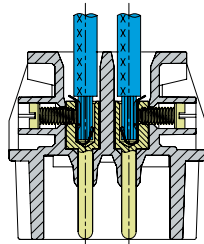
Wire gauge	Pole	Wire diameter ϕ	M Mutiple seal joint		
4 mm ²	2	10.7 - 14.1	20	25	
AWG 10 - 12	4	13 - 16.4		25	32
	5	14.3 - 17.7			25 32
	7	16.2 - 19.6			25 32
	11	approx. 24.5			40



TERMINAL TYPE

Screw terminal

HA series
 HE/HVE series
 HSB series
 HK series
 HWK series
 HEAV series

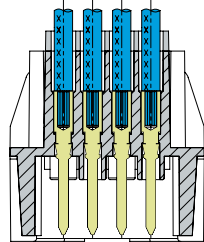


- ◆ Easy handling
- ◆ No special tools

Inserts	Max.wire gauge		Stripping length L (mm)
	mm ²	AWG	
HA-003,HA-004	2.5	14	4.5
HE,HA,HEAV	2.5	14	7.5
HE,HVE	4.0	12	7.5
HSB	6.0	10	11.5
HK,HWK	16.0	5.0	14

Crimp terminal

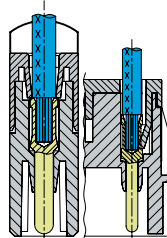
HD series
 HDD series



- ◆ Constant contact resistance as a result of precisely repeated crimp connection quality
- ◆ Corrosion free connections as a result of cold weld action

Inserts	Max.wire gauge		Stripping length L (mm)	
	mm ²	AWG	HDD/HD	HEC/HAC
HD	0.5	20	8.0	7.5
	0.75	18	8.0	7.5
HDD	1.0	18	8.0	7.5
	1.5	16	8.0	7.5
HM(10A)	2.5	14	8.0	7.5
	4.0	12	-	7.5

HEC/HEE Series
 HEEE Series
 HM Series (40A)

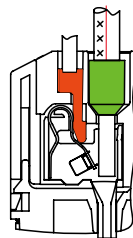


- ◆ Pre-preparation of cable forms with crimp contacts fitted
- ◆ Optimum cost cable connection

Inserts	Max.wire gauge		Stripping length L (mm) HEE/HM (40A)
	mm ²	AWG	
HEC	0.5	20	7.5
	0.75	18	7.5
HEE	1.0	18	7.5
	1.5	16	7.5
HEEE	2.5	14	7.5
	4.0	12	7.5

Cage-clamp terminal

HAS Series
 HESH Series



This termination method requires very little preparation of the wire and on special tools, leading to a low installed cost and a high degree of mechanical security.

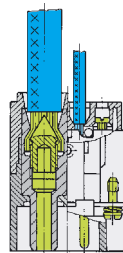
- ◆ Ease of termination. Conductor and screwdriver are in same plane.

Inserts	Max.wire gauge		Stripping length L (mm)
	mm ²	AWG	
HAS, HESH	0.14-2.5	26-14	9-11

- ◆ No special preparation of stripped conductor.
- ◆ From the terminal side for testing installation condition.
- ◆ The larger the conductor the higher the clamping force.
- ◆ The termination is vibration-proof.

Axial screw terminal

HK6/6
 HK6/12
 HK8/0



- ◆ Less space required
- ◆ Easy handling
- ◆ No special tools

Inserts	Max.wire gauge		Stripping length L(mm)
	mm ²	AWG	
HK6/6	16-35	5-2	13-14
HK6/12	2.5-10	13/-1	8-9
HK8/0	10-25	16/-1	6-7

Recommended screw drivers and tightening torques

Size of screw	Connector type	(Ø)	(Ø)	Recommended size of screw driver
		Tightening torque [Nm]	Tightening torque [Nm]	
M3	Screw terminal HA-003/HA-004/HQ-005	0.25	0.20	0.4 x 2.5
M3	Screw terminal HA-010/HA-016	0.50	0.40	0.5 x 3.5 or ± size 1
M3	Screw terminal HE, HVAE fixing screws of all kinds, guiding pins and bushes	0.50	0.40	0.5 x 3.5
M4	Ground terminal HA,HE, HD,HDD	1.20	0.90	0.5 x 3.5 or ± size 1+2
M4	Terminal blocks HSB	1.20	0.90	0.8 x 4.5
M5	Ground terminal HSB	2.00	1.40	0.8 x 4.5 1.2 x 8.0

HOW TO ORDER

For a complete connector components may be ordered from the following sub headings

1 Male insert

Male insert with screw terminal / crimp terminal / spring terminal / rolled contacts terminal / axial screw terminal/rapid terminal

2 Female insert

Female insert with screw terminal/crimp terminal/spring terminal/rolled contacts terminal/axial screw terminal/rapid terminal

3 Hoods

Hoods with low or high construction, side or top cable entry, 2 or 4 bolts, 1 or 2 locking levers.

4 Housings

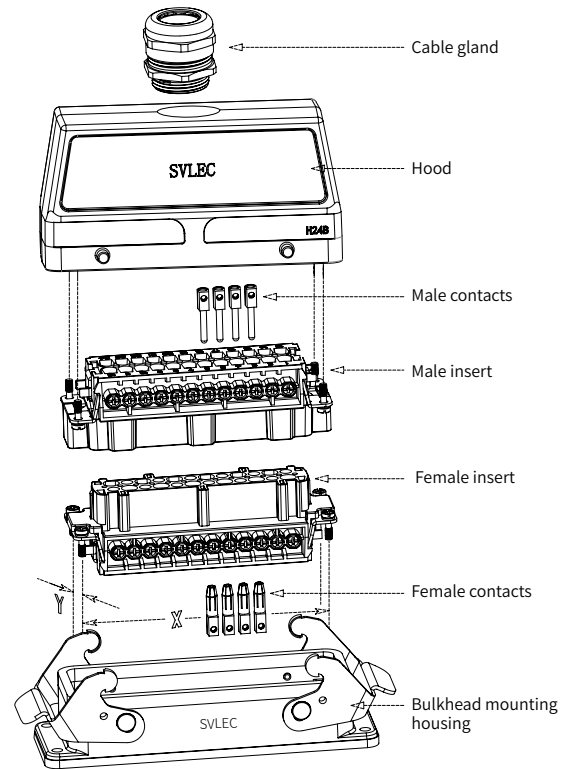
Bulkhead mounting housings with or without protection cover, 1 or 2 locking levers. Surface mountings with low or high construction, with or without protection cover, 2 or 4 bolts, 1 or 2 locking levers, 1 or 2 cable entries.

5 Cable entry protection

Metal or plastic cable glands
Metal or plastic hose glands
Special cable entry protection or extensive range of accessories.

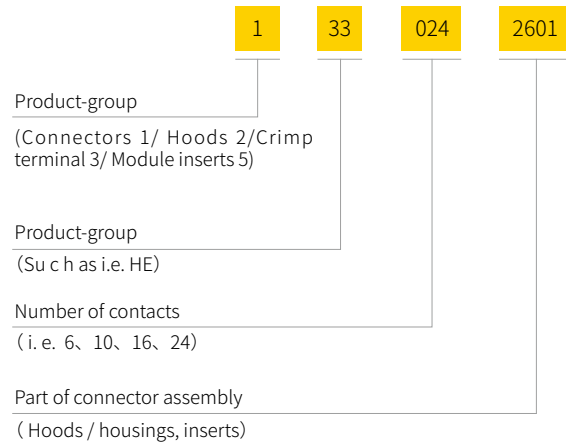
Accessories

Protection cover available, code and guide pins for coding. Inserts fixing screws for use without hoods and housings.



Our computerize ordering system uses the following code

Our computerized ordering system uses the following code:



The name of the hood and housing

Hood			
Hood with 2 levers		Hood with 4 levers	
TS-RO	Side-entry, Low construction	TS	Side-entry, Low construction
TG-RO	Top-entry, Low construction	TG	Top-entry, Low construction
TSH-RO	Side-entry, High construction	TSH	Side-entry, High construction
TGH-RO	Top-entry, High construction	TGH	Top-entry, High construction

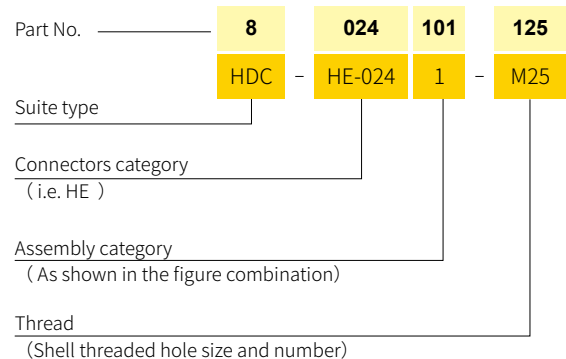
Housing			
Housing with 1 levers		Housing with 2 levers	
AG-LB	Bulkhead mounting	AG	Bulkhead mounting
AD-LB	Bulkhead mounting cover	AD	Bulkhead mounting cover
SGR-LB	Surface mounting, Low construction	SGR	Surface mounting, Low construction
SDR-LB	Surface mounting cover, Low construction	SDR	Surface mounting cover, Low construction
SGRH-LB	Surface mounting, High construction	SGRH	Surface mounting, High construction
SDRH-LB	Surface mounting cover, High construction	SDRH	Surface mounting cover, High construction

Other hood	
TSB	Side-entry, double locking lever, Low construction
TGB	Top-entry, double locking lever, Low construction
TSBH	Side-entry, double locking lever, High construction
TGBH	Top-entry, double locking lever, High construction

Other housing	
TBF	Cable to cable coupling, double locking lever, Low construction
TBF-LB	Cable to cable coupling, single locking lever, Low construction
TBFH	Cable to cable coupling, double locking lever, High construction
TBFH-LB	Cable to cable coupling, single locking lever, High construction

Ordering system computerized

Our computerized ordering system uses the following code:



SET GENERAL INTRODUCTION

HA Series 3 Pin Screw 250V,10A; Splinter 400V,10A



Side-entry & bulkhead

Screw Part No.	8003001120
Cage-Clamp Part No.	8103001120



Top-entry & bulkhead

Screw Part No.	8003002120
Cage-Clamp Part No.	8103002120



Top-entry & Side-bulkhead

Screw Part No.	8003003120
Cage-Clamp Part No.	8103003120



Top-entry & surface

Screw Part No.	8003004120
Cage-Clamp Part No.	8103004120



Top-entry & cable to cable

Screw Part No.	8003009120
Cage-Clamp Part No.	8103009120



Top-entry & Side-bulkhead

Screw Part No.	8003006120
Cage-Clamp Part No.	8103006120

HA Series 4 Pin Screw 250V,10A ; Splinter 400V,10A



Side-entry & bulkhead

Screw Part No.	8004001120
Cage-Clamp Part No.	8104001120



Top-entry & bulkhead

Screw Part No.	8004002120
Cage-Clamp Part No.	8104002120



Top-entry & Side-bulkhead

Screw Part No.	8004003120
Cage-Clamp Part No.	8104003120



Top-entry & surface

Screw Part No.	8004004120
Cage-Clamp Part No.	8104004120



Top-entry & cable to cable

Screw Part No.	8004009120
Cage-Clamp Part No.	8104009120



Top-entry & Side-bulkhead

Screw Part No.	8004006120
Cage-Clamp Part No.	8104006120

SET GENERAL INTRODUCTION

HA Series 10 Pin, 250V,16A



Side-entry & bulkhead

Screw Part No.	8010001120
Cage-Clamp Part No.	8110001120



Top-entry & bulkhead

Screw Part No.	8010002120
Cage-Clamp Part No.	8110002120



Top-entry & Side-bulkhead

Screw Part No.	8010003220
Cage-Clamp Part No.	8110003220



Top-entry & surface

Screw Part No.	8010004220
Cage-Clamp Part No.	8110004220



Side-entry & bulkhead cover

Screw Part No.	8010005120
Cage-Clamp Part No.	8110005120



Top-entry & Side-bulkhead

Screw Part No.	8010006120
Cage-Clamp Part No.	8110006120

HA Series 16 Pin, 250V,16A



Side-entry & bulkhead

Screw Part No.	8016001125
Cage-Clamp Part No.	8116001125



Top-entry & bulkhead

Screw Part No.	8016002125
Cage-Clamp Part No.	8116002125



Top-entry & Side-bulkhead

Screw Part No.	8016003225
Cage-Clamp Part No.	8116003225



Top-entry & surface

Screw Part No.	8016004225
Cage-Clamp Part No.	8116004225



Side-entry & bulkhead cover

Screw Part No.	8016005125
Cage-Clamp Part No.	8116005125



Top-entry & Side-bulkhead

Screw Part No.	8016006125
Cage-Clamp Part No.	8116006125

SET GENERAL INTRODUCTION

HA Series 32 Pin, 250V,16A



Side-entry & bulkhead

Screw Part No.	8032001132
Cage-Clamp Part No.	8132001132



Top-entry & bulkhead

Screw Part No.	8032002132
Cage-Clamp Part No.	8132002132



Side-entry & surface

Screw Part No.	8032003132
Cage-Clamp Part No.	8132003132



Top-entry & surface

Screw Part No.	8032004132
Cage-Clamp Part No.	8132004132



SET GENERAL INTRODUCTION

HE Series 6 Pin, 500V,16A

Side-entry & bulkhead		Top-entry & bulkhead		Side-entry & surface		Top-entry & surface	
Screw Part No.	8006101120	Screw Part No.	8006102120	Screw Part No.	8006103220	Screw Part No.	8006104220
Cage-Clamp Part No.	8106101120	Cage-Clamp Part No.	8106102120	Cage-Clamp Part No.	8106103220	Cage-Clamp Part No.	8106104220
Side-entry & bulkhead cover		Top-entry & bulkhead cover		Top-entry & cable to cable		Side-entry & surface cover	
Screw Part No.	8006105120	Screw Part No.	8006106120	Screw Part No.	8006109220	Screw Part No.	8006107220
Cage-Clamp Part No.	8106105120	Cage-Clamp Part No.	8106106120	Cage-Clamp Part No.	8106109220	Cage-Clamp Part No.	8106107220

HE Series 10 Pin, 500V,16A

Side-entry & bulkhead		Top-entry & bulkhead		Side-entry & surface		Top-entry & surface	
Screw Part No.	8010101120	Screw Part No.	8010102120	Screw Part No.	8010103220	Screw Part No.	8010104220
Cage-Clamp Part No.	8110101120	Cage-Clamp Part No.	8110102120	Cage-Clamp Part No.	8110103220	Cage-Clamp Part No.	8110104220
Side-entry & bulkhead cover		Top-entry & bulkhead cover		Top-entry & cable to cable		Side-entry & bulkhead	
Screw Part No.	8010105120	Screw Part No.	8010106120	Screw Part No.	8010109220	Screw Part No.	8010111120
Cage-Clamp Part No.	8110105120	Cage-Clamp Part No.	8110106120	Cage-Clamp Part No.	8110109220	Cage-Clamp Part No.	8110111120

SET GENERAL INTRODUCTION

HE Series 16PIN 500V,16A



Side-entry & bulkhead	
Screw Part No.	8016101125
Cage-Clamp Part No.	8116101125



Top-entry & bulkhead	
Screw Part No.	8016102125
Cage-Clamp Part No.	8116102125



Side-entry & surface	
Screw Part No.	8016103225
Cage-Clamp Part No.	8116103225



Top-entry & surface	
Screw Part No.	8016104225
Cage-Clamp Part No.	8116104225



Side-entry & bulkhead cover	
Screw Part No.	8016105125
Cage-Clamp Part No.	8116105125



Top-entry & bulkhead cover	
Screw Part No.	8016106125
Cage-Clamp Part No.	8116106125



Top-entry & cable to cable	
Screw Part No.	8016109225
Cage-Clamp Part No.	8116109225



Side-entry & bulkhead	
Screw Part No.	8016111125
Cage-Clamp Part No.	8116111125

HE Series 24 Pin, 500V,16A



Side-entry & bulkhead	
Screw Part No.	8024101125
Cage-Clamp Part No.	8124101125



Top-entry & bulkhead	
Screw Part No.	8024102125
Cage-Clamp Part No.	8124102125



Side-entry & surface	
Screw Part No.	8024103225
Cage-Clamp Part No.	8124103225



Top-entry & surface	
Screw Part No.	8024104225
Cage-Clamp Part No.	8124104225



Side-entry & bulkhead cover	
Screw Part No.	8024105125
Cage-Clamp Part No.	8124105125



Top-entry & bulkhead cover	
Screw Part No.	8024106125
Cage-Clamp Part No.	8124106125



Top-entry & cable to cable	
Screw Part No.	8024109225
Cage-Clamp Part No.	8124109225



Side-entry & bulkhead	
Screw Part No.	8024111125
Cage-Clamp Part No.	8124111125

SET GENERAL INTRODUCTION

HE Series 32PIN 500V,16A



Side-entry & bulkhead	
Screw Part No.	8032101132
Cage-Clamp Part No.	8132101132

Top-entry & bulkhead	
Screw Part No.	8032102132
Cage-Clamp Part No.	8132102132

Side-entry & surface	
Screw Part No.	8032103232
Cage-Clamp Part No.	8132103232

Top-entry & surface	
Screw Part No.	8032104232
Cage-Clamp Part No.	8132104232



Side-entry & bulkhead cover	
Screw Part No.	8032105132
Cage-Clamp Part No.	8132105132

Top-entry & bulkhead cover	
Screw Part No.	8032106132
Cage-Clamp Part No.	8132106132

Top-entry & cable to cable	
Screw Part No.	8032109232
Cage-Clamp Part No.	8132109232

Side-entry & bulkhead	
Screw Part No.	8032111132
Cage-Clamp Part No.	8132111132

HE Series 48 Pin 500V,16A



Side-entry & bulkhead	
Screw Part No.	8048101132
Cage-Clamp Part No.	8148101132

Top-entry & bulkhead	
Screw Part No.	8048102132
Cage-Clamp Part No.	8148102132

Side-entry & surface	
Screw Part No.	8048103232
Cage-Clamp Part No.	8148103232

Top-entry & surface	
Screw Part No.	8048104232
Cage-Clamp Part No.	8148104232



Cage-ClampLOCK TERMINAL

Function description

1 In the case of open-hole installation, the in-line connector enables the connector to be pre-installed in the cabinet and then wired, as shown in Diagram 1

Connectors can be pre-mounted on the cabinet and then wired.

Fix the base piece to the cabinet first, then connect the wires to the core piece



Diagram 1



2 In order not to affect the neatness of the cabinet wiring and norms, the length of the wiring harness inside the cabinet will generally try to shorten the screw-mounted connectors due to crimp screws covered by the shell, the line is reserved for some of the long pull to the outside of the cabinet, the first connected to the connector and then fix the shell, the line inside the cabinet at this time will be too long, affecting the wiring process as shown in Diagram 2

Quick lock terminal

Other terminal

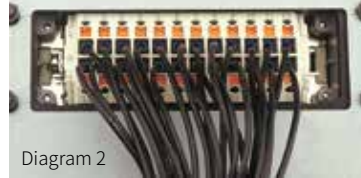


Diagram 2



3 Plug-in wiring can be easily wired, and when the product needs to add or remove some wiring harnesses, it can be achieved without disassembling the connector shell, as shown in Diagram 3



Diagram 3

4 The inline connector has a test hole reserved for the user, which enables charged testing, as shown in Diagram 4

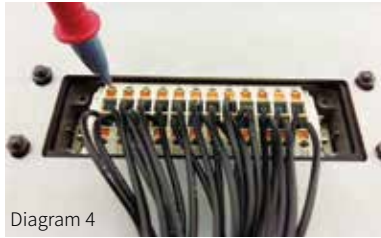
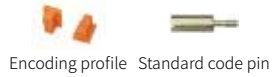


Diagram 4

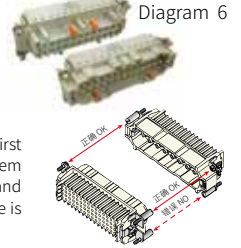
5 Plug-in connectors utilise a coding block (p5) to replace th traditional coding pins to achieve multiple connector mismatch prevention, simple, very low cost process of pressing the coding block into the slot (p6).

Diagram 5

Diagram 6

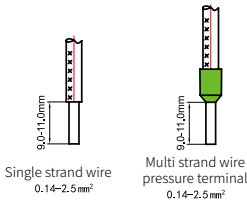


Encoding profile Standard code pin

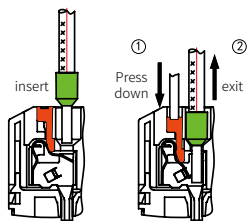


Traditional connectors use coding pins, first remove the fixing screws and replace them with coding pins, which is troublesome and timeconsuming to operate, and the price is high compared to coding blocks.

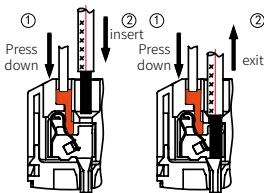
Instructions for product use



Stripping Length







Single or multi-stranded wire crimp terminals









Single stranded hard wire or multi-stranded soft wire without crimp terminals



HA CONNECT THE SMALL BODY

Series	HA							
Number of contacts	3 + ⊕		3 + ⊕		4 + ⊕		4 + ⊕	
Termination terminal	Screw terminal		Cage clamp terminal		Screw terminal		Cage clamp terminal	
								
Rated current	10A		10A		10A		10A	
Rated voltage	250V		400V		250V		400V	
Wire gauge	0.5-1.5 mm ²		0.14-2.5 mm ²		0.5-1.5 mm ²		0.14-2.5 mm ²	
Size	H3A		H3A		H3A		H3A	
Male insert (M)	HA-003-M	1200032611	HAS-003-M	1200032633	HA-004-M	1200042611	HAS-004-M	1200042633
Female insert (F)	HA-003-F	1200032711	HAS-003-F	1200032733	HA-004-F	1200042711	HAS-004-F	1200042733

Series	HA							
Number of contacts	10 + ⊕		16 + ⊕		32 + ⊕			
Termination terminal	Screw terminal		Screw terminal		Screw terminal			
								
Rated current	16A		16A		16A			
Rated voltage	250V		250V		250V			
Wire gauge	0.5-2.5 mm ²		0.5-2.5 mm ²		0.5-2.5 mm ²			
Size	H10A		H16A		H32A			
Male insert (M)	HA-010-M	1200102612	HA-016-M	1200162612	HA-016-M (1-16)	1200162612	HA-032-M (17-32)	1200162613
Female insert (F)	HA-010-F	1200102812	HA-016-F	1200162812	HA-016-F (1-16)	1200162812	HA-032-F (17-32)	1200162813

Series	HA (Cage-Clamplock Cage clamp)							
Number of contacts	10 + ⊕		16 + ⊕		32 + ⊕			
Termination terminal	Quick lockCage clamp terminal		Quick lockCage clamp terminal		Quick lockCage clamp terminal			
								
Rated current	16A		16A		16A			
Rated voltage	250V		250V		250V			
Wire gauge	0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²			
Size	H10A		H16A		H32A			
Male insert (M)	HASH-010-M	1200102633	HASH-016-M	1200162633	HASH-016-M (1-16)	1200162633	HASH-032-M (17-32)	1200162643
Female insert (F)	HASH-010-F	1200102833	HASH-016-F	1200162833	HASH-016-F (1-16)	1200162833	HASH-032-F (17-32)	1200162843

Technical characteristics

1 Inserts




Number of contacts	3,4,10,16,24,32(2X16)+PE
According to EN 61 984 Electrica data	
HA-003、HA-004	
- Rated current	10A
- Rated voltage conductor-ground	230V
- Rated voltage conductor-conductor	400V
- Rated impulse voltage	4KV
- Pollution degree	3
- or	10A 250V 4KV 3
HA-010、HA-016	
- Rated current	16A
- Rated voltage	250V
- Rated impulse voltage	4KV
- Pollution degree	3
- Pollution degree 2 also	16A 230/400V 4kv 2
According to UL/CSA Rated voltage	600V
Insulation resistance	≥ 10 ¹⁰ Ω




Material	Polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Mating cycles	≥ 500




2 Contacts




Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	≤ 1mΩ
Screw terminal	
- 3/4 Wire specifications	0.5-1.5 mm ²
- 10/16/32 Wire specifications	0.5-2.5 mm ²
-AWG	18-14
-Tightening torque	0.25Nm (HA-003/004) or 0.5Nm (HA-010/016)
Cage-Clamp crimping Cage-c	
-Wire specifications	0.14-2.5 mm ²
-AWG	26-14

HE CONVENTIONAL TYPE PLUG

Series	HE					
Number of contacts	6 + ⊕		6 + ⊕		6 + ⊕	
Termination terminal	Screw terminal		Quick lockCage clamp terminal		Crimp terminal (Order crimp contacts separately)	
						
	M	F	M	F	M	F
Rated current	16A		16A		16A	
Rated voltage	500V		500V		500V	
Wire gauge	0.5-2.5 mm ²		0.14-2.5 mm ²		0.14-4.0 mm ²	
Size	H6B		H6B		H6B	
Male insert (M) Female	HE-006-M	1330062601	HESH-006-M	1330062633	HEC-006-M	1330062602
insert (F)	HE-006-F	1330062701	HESH-006-F	1330062733	HEC-006-F	1330062702

Series	HE					
Number of contacts	10 + ⊕		10 + ⊕		10 + ⊕	
Termination terminal	Screw terminal		Quick lockCage clamp terminal		Crimp terminal (Order crimp contacts separately)	
						
	M	F	M	F	M	F
Rated current	16A		16A		16A	
Rated voltage	500V		500V		500V	
Wire gauge	0.5-2.5 mm ²		0.14-2.5 mm ²		0.14-4.0 mm ²	
Size	H10B		H10B		H10B	
Male insert (M)	HE-010-M	1330102601	HESH-010-M	1330102633	HEC-010-M	1330102602
Female insert (F)	HE-010-F	1330102701	HESH-010-F	1330102733	HEC-010-F	1330102702

Series	HE					
Number of contacts	16 + ⊕		16 + ⊕		16 + ⊕	
Termination terminal	Screw terminal		Quick lockCage clamp terminal		Crimp terminal (Order crimp contacts separately)	
						
	M	F	M	F	M	F
Rated current	16A		16A		16A	
Rated voltage	500V		500V		500V	
Wire gauge	0.5-2.5 mm ²		0.14-2.5 mm ²		0.14-4.0 mm ²	
Size	H16B		H16B		H16B	
Male insert (M)	HE-016-M	1330162601	HESH-016-M	1330162633	HEC-016-M	1330162602
Female insert (F)	HE-016-F	1330162701	HESH-016-F	1330162733	HEC-016-F	1330162702

Series	HE					
Number of contacts	24 + ⊕		24 + ⊕		24 + ⊕	
Termination terminal	Screw terminal		Quick lockCage clamp terminal		Crimp terminal (Order crimp contacts separately)	
						
	M	F	M	F	M	F
Rated current	16A		16A		16A	
Rated voltage	500V		500V		500V	
Wire gauge	0.5-2.5 mm ²		0.14-2.5 mm ²		0.14-4.0 mm ²	
Size	H24B		H24B		H24B	
Male insert (M)	HE-024-M	1330242601	HESH-024-M	1330242633	HEC-024-M	1330242602
Female insert (F)	HE-024-F	1330242701	HESH-024-F	1330242733	HEC-024-F	1330242702

HE CONVENTIONAL TYPE PLUG

Series	HE					
Number of contacts	32 + ⊕		32 + ⊕		32 + ⊕	
Termination terminal	Screw terminal		Quick lockCage clamp terminal		Crimp terminal (Order crimp contacts separately)	
Rated current	16A		16A		16A	
Rated voltage	500V		500V		500V	
Wire gauge	0.5-2.5 mm ²		0.14-2.5 mm ²		0.14-4.0 mm ²	
Size	H32B		H32B		H32B	
Male insert (M)	HE-016-M (1-16)	1330162601	HESH-016-M (1-16)	1330162633	HEC-016-M (1-16)	1330162602
	HE-032-M (17-32)	1330162611	HESH-032-M (17-32)	1330162634	HEC-032-M (17-32)	1330162612
Female insert (F)	HE-016-F (1-16)	1330162701	HESH-016-F (1-16)	1330162733	HEC-016-F (1-16)	1330162702
	HE-032-F (17-32)	1330162711	HESH-032-F (17-32)	1330162734	HEC-032-F (17-32)	1330162712

Series	HE					
Number of contacts	48 + ⊕		48 + ⊕		48 + ⊕	
Termination terminal	Screw terminal		Quick lockCage clamp terminal		Crimp terminal (Order crimp contacts separately)	
Rated current	16A		16A		16A	
Rated voltage	500V		500V		500V	
Wire gauge	0.5-2.5 mm ²		0.14-2.5 mm ²		0.14-4.0 mm ²	
Size	H48B		H48B		H48B	
Male insert (M)	HE-024-M (1-24)	1330242601	HESH-024-M (1-24)	1330242633	HEC-024-M (1-24)	1330242602
	HE-048-M (25-48)	1330242611	HESH-048-M (25-48)	1330242634	HEC-048-M (25-48)	1330242612
Female insert (F)	HE-024-F (1-24)	1330242701	HESH-024-F (1-24)	1330242733	HEC-024-F (1-24)	1330242702
	HE-048-F (25-48)	1330242711	HESH-048-F (25-48)	1330242734	HEC-048-F (25-48)	1330242712

HE Technical parameters of conventional mortise

1 Inserts

Inserts	Number of contacts	6,10,16,24,32(2X16),48(2X24)+PE
EN 61 984 Electrical data		
-Rated current		16A
-Rated voltage		500V
-Rated impulse voltage		6KV
-Pollution degree		3
-Pollution degree 2 also		16A 400/690V 6kV 2
UL/CSA Rated voltage		600V
Insulation resistance		≥ 10 ¹⁰ Ω
Material		Polycarbonate
Limiting temperatures		-40°C ... +125°C
UL94 Flammability acc.		V0
Mating cycles		≥ 500

2 Contacts

Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	≤ 1mΩ
Screw terminal	
-Wire specifications	0.5-2.5mm ²
-AWG	26-14
-Tightening torque	0.5Nm
-Stripping length	7.0mm
Cage-clamp terminal	
-Wire specifications	0.14-2.5mm ²
-AWG	26-14
-Stripping length	7-9mm
Crimp terminal	
-Wire specifications	0.14-4.0mm ²
-AWG	26-12
-Stripping length	7.5mm

16A Crimp contacts, silver-plated

Technical data

Material: Copper, hard silver

Contact resistance: ≤ 1mΩ

Termination methods: Crimp connection

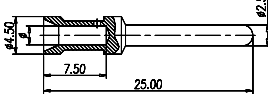
CEM



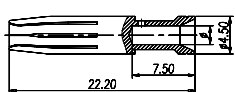
CEF



16A Male






16A Female



(mm ²) Wire gauge	Stripping length	Male insert Type	Male insert Part No.	Female insert Type	Female insert Part No.	
0.14-0.37	AWG26-22	7.5mm	CEM-0.37	3330006127	CEF-0.37	3330006227
0.5	AWG20	7.5mm	CEM-0.5	3330006121	CEF-0.5	3330006221
0.75	AWG18	7.5mm	CEM-0.75	3330006114	CEF-0.75	3330006214
1.0	AWG18	7.5mm	CEM-1.0	3330006105	CEF-1.0	3330006205
1.5	AWG16	7.5mm	CEM-1.5	3330006104	CEF-1.5	3330006204
2.5	AWG14	7.5mm	CEM-2.5	3330006102	CEF-2.5	3330006202
4.0	AWG12	7.5mm	CEM-4.0	3330006107	CEF-4.0	3330006207

HVE CONNECT THE HIGH VOLTAGE TYPE BODY

Series	HVE					
Number of contacts	3 + ⊕		6 + ⊕		10 + ⊕	
Termination terminal	Screw terminal Safe high voltage connections		Screw terminal Safe high voltage connections		Screw terminal Safe high voltage connections	
						
	M	F	M	F	M	F
Rated current	16A		16A		16A	
Rated voltage	830V		830V		830V	
Wire gauge	0.5-2.5 mm ²		0.5-2.5 mm ²		0.5-2.5 mm ²	
Size	H10B		H16B		H24B	
Male insert (M)	HVE-003+2-M	1340032601	HVE-006+2-M	1340062601	HVE-010+2-M	1340102601
Female insert (F)	HVE-003+2-F	1340032701	HVE-006+2-F	1340062701	HVE-010+2-F	1340102701

High-voltage plug core technical parameter

1 Inserts

According to DIN EN 61984 Electrical data




-Rated current	16A
-Rated voltage	830V
-Rated impulse voltage	8KV
-Pollution degree	3
-Pollution degree 2 also	16A 1000V 8kv 2
-Or	16A 720V/1250V 8kv 2
-Insurance and long needle	16A 500V 6kv 3
UL/CSA Rated voltage	600V
Insurance delay pin	250V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Mating cycles	≥ 500


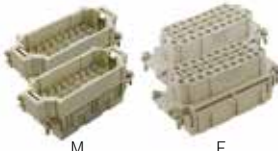

2 Contacts



Material	Copper alloy
Surface	Hard-silver plated
Contact resistance	≤ 1mΩ
Screw terminal	
-Wire specifications	0.5-2.5mm ²
-AWG	26-14
-Tightening torque	0.5Nm
-Stripping length	7.0mm



HEE HIGH DENSITY TYPE PLUG

Series	HEE					
Number of contacts	10 + Ⓢ		18 + Ⓢ		32 + Ⓢ	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
						
	M	F	M	F	M	F
Rated current	16A		16A		16A	
Rated voltage	500V		500V		500V	
Wire gauge	0.14-4.0 mm ²		0.14-4.0 mm ²		0.14-4.0 mm ²	
Size	H6B		H10B		H16B	
Male insert (M)	HEE-010-M	1320103001	HEE-018-M	1320183001	HEE-032-M	1320323001
Female insert (F)	HEE-010-F	1320103101	HEE-018-F	1320183101	HEE-032-F	1320323101

Series	HEE					
Number of contacts	46 + Ⓢ		64 + Ⓢ		92 + Ⓢ	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
						
	M	F	M	F	M	F
Rated current	16A		16A		16A	
Rated voltage	500V		500V		500V	
Wire gauge	0.14-4.0 mm ²		0.14-4.0 mm ²		0.14-4.0 mm ²	
Size	H24B		H32B		H48B	
Male insert (M)	HEE-046-M	1320463001	HEE-032-M (1-32)	1320323001	HEE-046-M (1-46)	1320463001
			HEE-064-M (33-64)	1320323011	HEE-092-M (47-92)	1320463011
Female insert (F)	HEE-046-F	1320463101	HEE-032-F (1-32)	1320323101	HEE-046-F (1-46)	1320463101
			HEE-064-F (33-64)	1320323111	HEE-092-F (47-92)	1320463111

Series	HEEE			
Number of contacts	40 + Ⓢ		72 + Ⓢ	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
				
	M	F	M	F
Rated current	16A		16A	
Rated voltage	400V		400V	
Wire gauge	0.14-4.0 mm ²		0.14-4.0 mm ²	
Size	H16B		H24B	
Male insert (M)	HEEE-040-M	1320403001	HEEE-072-M	1320723001
Female insert (F)	HEEE-040-F	1320403101	HEEE-072-F	1320723101

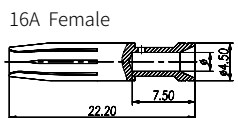
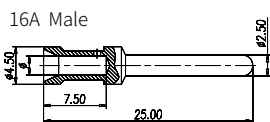
16A Crimp contacts, silver-plated

Technical data

Material: Copper, hard silver

Contact resistance: ≤ 1mΩ

Termination methods: Crimp connection






CEM



CEF



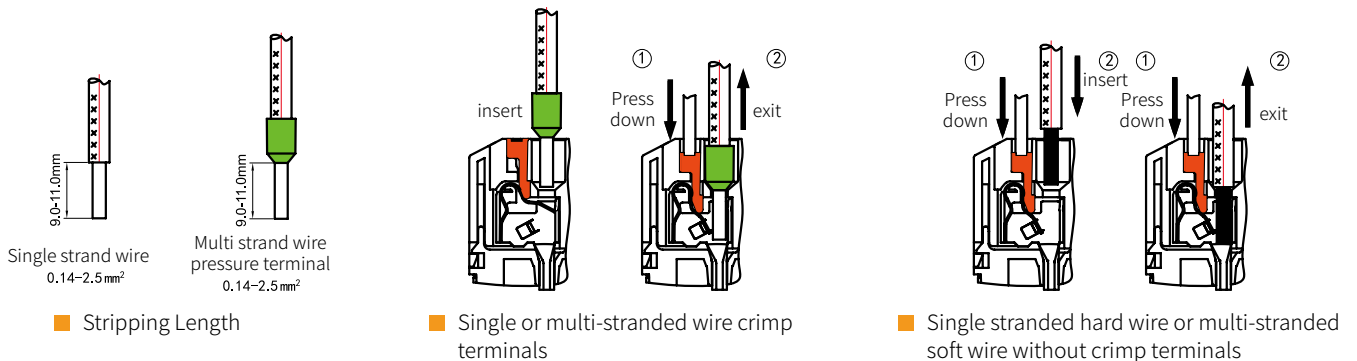
(mm ²) Wire gauge	Stripping length	Male insert Type	Male insert Part No.	Female insert Type	Female insert Part No.	
0.14-0.37	AWG26-22	7.5mm	CEM-0.37	3330006127	CEF-0.37	3330006227
0.5	AWG20	7.5mm	CEM-0.5	3330006121	CEF-0.5	3330006221
0.75	AWG18	7.5mm	CEM-0.75	3330006114	CEF-0.75	3330006214
1.0	AWG18	7.5mm	CEM-1.0	3330006105	CEF-1.0	3330006205
1.5	AWG16	7.5mm	CEM-1.5	3330006104	CEF-1.5	3330006204
2.5	AWG14	7.5mm	CEM-2.5	3330006102	CEF-2.5	3330006202
4.0	AWG12	7.5mm	CEM-4.0	3330006107	CEF-4.0	3330006207

HEE HIGH DENSITY TYPE PLUG

Series	HEE (Quick Lock)					
Number of contacts	10 + ⊕		18 + ⊕		32 ⊕	
Termination terminal	Quick lockCage clamp terminal		Quick lockCage clamp terminal		Quick lockCage clamp terminal	
						
	M	F	M	F	M	F
Rated current	16A		16A		16A	
Rated voltage	500V		500V		500V	
Wire gauge	0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²	
Size	H6B		H10B		H16B	
Male insert (M)	HEESH-010-M	1320103033	HEESH-018-M	1320183033	HEESH-032-M	1320323033
Female insert (F)	HEESH-010-F	1320103133	HEESH-018-F	1320183133	HEESH-032-F	1320323133

Series	HEE (Quick Lock)			
Number of contacts	46 + ⊕		HEE (Quick Lock) Front View	
Termination terminal	Quick lockCage clamp terminal			
				
	M	F		
Rated current	16A			
Rated voltage	500V			
Wire gauge	0.14-2.5 mm ²			
Size	H24B			
Male insert (M)	HEESH-046-M	1320463033		
Female insert (F)	HEESH-046-F	1320463133		

Instruction of Quick Lock products



HEE SERIES TECHNICAL PARAMETERS

High density-ferrule technology parameters

1 Inserts

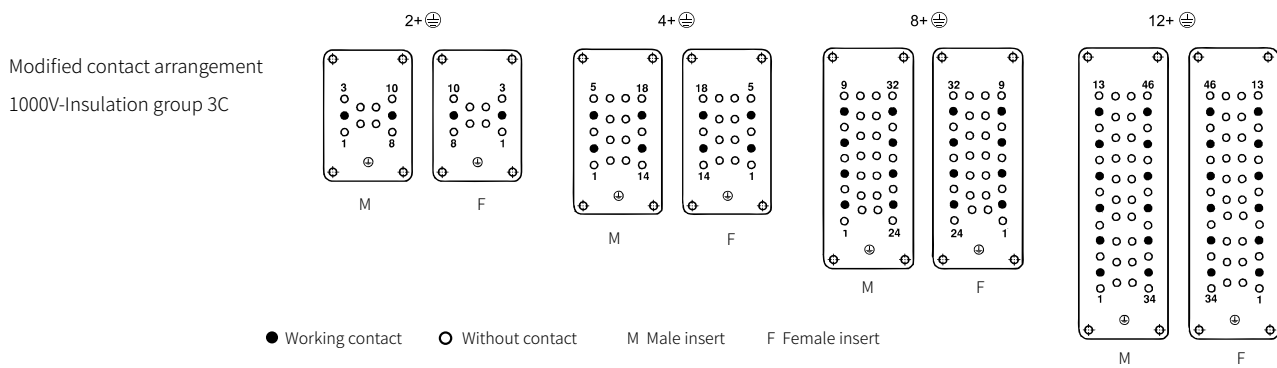
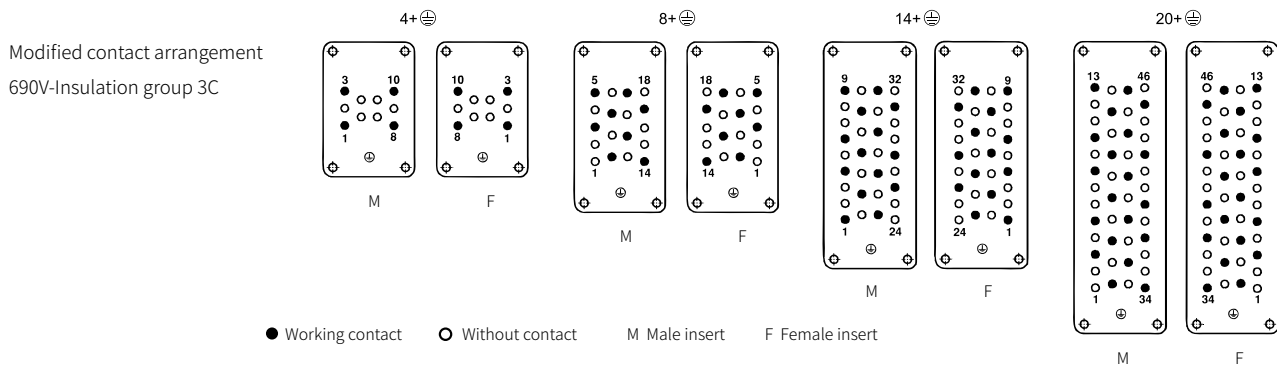
Inserts	Number of contacts	10,18,32,46,64,64(2X32)
		92(2X46)+PE
EN 61984 Electrical data		
	-Rated current	16A
	-Rated voltage	500V
	-Rated impulse voltage	6kV
	-Pollution degree	3
	-Pollution degree 2 also	16A 830V 8kV 2
UL/CSA Rated voltage		
	Insulation resistance	$\geq 10^{10}\Omega$
	Material	Polycarbonate
	Limiting temperatures	-40°C ...+125°C
	According to UL94 Flammability	V0
	Mating cycles	≥ 500

2 Contacts

Material	Copper alloy
Surface	Hard-gold plated
	Hard-silver plated
Contact resistance	$\leq 1m\Omega$
Crimp terminal	
-Wire specifications	0.14-4.0 mm ²
-AWG	26-12
-Stripping length	7.5 mm

HEE Modified contact arrangement up to 1000V

The connector series HEE equipped with all contacts may be used for voltages up to 500V ~ insulation group C. A modified contact loading arrangement permits use up to 1000V ~ also in insulation group C.



HD HIGH PIN COUNT CONNECTORS

Series	HD					
Number of contacts	7 + Ⓢ		8 + Ⓢ		15 + Ⓢ	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
Rated current	10A		10A		10A	
Rated voltage	250V		50V		250V	
Wire gauge	0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²	
Size	H3A		H3A		H10A	
Male insert (M)	HD-007-M	1210073031	HD-008-M	1360083001	HD-015-M	1210153001
Female insert (F)	HD-007-F	1210073131	HD-008-F	1360083101	HD-015-F	1210153101

Series	HD					
Number of contacts	25 + Ⓢ		40 + Ⓢ		64 + Ⓢ	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
Rated current	10A		10A		10A	
Rated voltage	250V		250V		250V	
Wire gauge	0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²	
Size	H16A		H16B		H24B	
Male insert (M)	HD-025-M	1210253001	HD-040-M	1210403001	HD-064-M	1210643001
Female insert (F)	HD-025-F	1210253101	HD-040-F	1210403101	HD-064-F	1210643101

Series	HD					
Number of contacts	50 + Ⓢ		80 + Ⓢ		128 + Ⓢ	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
Rated current	10A		10A		10A	
Rated voltage	250V		250V		250V	
Wire gauge	0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²	
Size	H32A		H32B		H48B	
Male insert (M)	HD-025-M (1-25)	1210253001	HD-040-M (1-40)	1210403001	HD-064-M (1-64)	1210643001
	HD-025-M (1-25)	1210253001	HD-040-M (1-40)	1210403001	HD-064-M (1-64)	1210643001
Female insert (F)	HD-025-F (1-25)	1210253101	HD-040-F (1-40)	1210403101	HD-064-F (1-64)	1210643101
	HD-025-F (1-25)	1210253101	HD-040-F (1-40)	1210403101	HD-064-F (1-64)	1210643101

10A Crimp contacts, silver-plated

Technical data

Material: Copper, hard silver / gold plated
 Contact resistance: ≤ 3mΩ
 Termination methods: Crimp connection

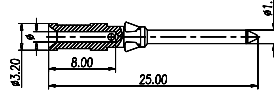
CDM



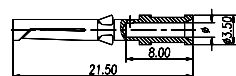
CDF



10A Male



10A Female



(mm)	Wire gauge	Stripping length	Male insert Type	Male insert Part No.	Female insert Type	Female insert Part No.
0.14-0.37	AWG26-22	8.0mm	CDM-0.37	3150006104	CDF-0.37	3150006204
0.5	AWG20	8.0mm	CDM-0.5	3150006103	CDF-0.5	3150006203
0.75	AWG18	8.0mm	CDM-0.75	3150006105	CDF-0.75	3150006205
1.0	AWG18	8.0mm	CDM-1.0	3150006102	CDF-1.0	3150006202
1.5	AWG16	8.0mm	CDM-1.5	3150006101	CDF-1.5	3150006201
2.5	AWG14	6.2mm	CDM-2.5	3150006106	CDF-2.5	3150006206

HD SERIES TECHNICAL PARAMETERS

Technical characteristics

1 Inserts

Inserts	Number of contacts	7,8,15,25,40,50(25x2),64,80(40x2), 128(64x2)+PE
DIN EN 61984 Electrical data		
-Rated current		10A
-Rated voltage		250V
-Rated impulse voltage		4kV
-Pollution degree		3
-Pollution degree 2 also		10A 230/400V 4kV 2
-UL/CSA Rated voltage		600V
-CSA		2A 30V
HD-008 Electrical data		
-Rated current		10A
-Rated voltage		50V/120V
-Rated impulse voltage		4kV
-Pollution degree		3
-UL/CSA Rated voltage		50V
-Rated voltage		120V
Insulation resistance		$\geq 10^{10}\Omega$
Material		Polycarbonate
Limiting temperatures		-40°C ...+125°C
UL94 Flammability		V0
Mating cycles		≥ 500

2 Contacts

Material	Copper alloy
Surface	Hard-silver plated Hard-gold plated
Contact resistance	$\leq 3m\Omega$
Crimp terminal	
-Wire specifications	0.14-2.5mm ²
-AWG	26-14

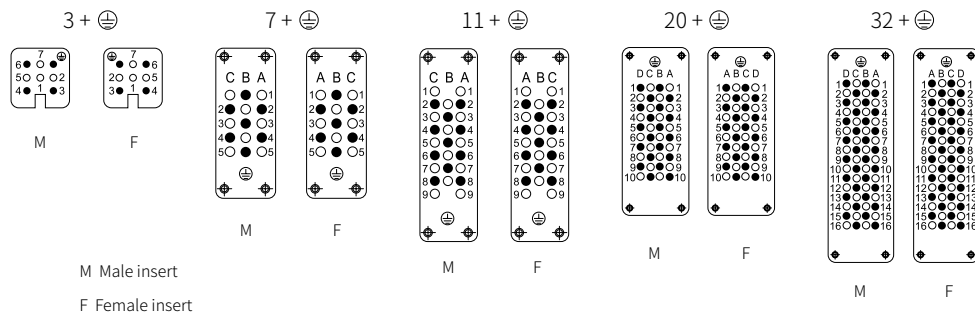


HD Modified contact arrangement up to 500V

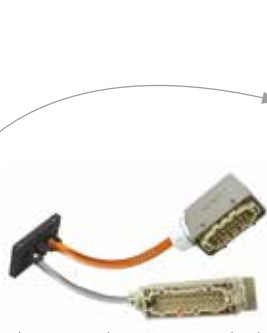
The connector series HD equipped with all contacts may be used for voltages up to 250V ~ insulation group C. A modified contact loading arrangement permits use up to 500V ~ also in insulation group C.

Modified contact arrangement

10A 500V 6kV 3



Cabinet mounted with rail cases



The connecting harness is connected to the connector in the cabinet through a wall plate.









In-cabinet mounted openings are available for use with wall panels.



In-cabinet mounting with surface case cases

HDD HIGH PIN COUNT CONNECTORS

Series	HDD					
Number of contacts	24 + ⊕		42 + ⊕		72 + ⊕	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
						
	M	F	M	F	M	F
Rated current	10A		10A		10A	
Rated voltage	250V		250V		250V	
Wire gauge	0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²	
Size	H6B		H10B		H16B	
Male insert (M)	HDD-024-M	1160243001	HDD-042-M	1160423001	HDD-072-M	1160723001
Female insert (F)	HDD-024-F	1160243101	HDD-042-F	1160423101	HDD-072-F	1160723101

Series	HDD					
Number of contacts	108 + ⊕		144 + ⊕		216 + ⊕	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
						
	M	F	M	F	M	F
Rated current	10A		10A		10A	
Rated voltage	250V		250V		250V	
Wire gauge	0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²	
Size	H24B		H32B		H48B	
Male insert (M)	HDD-108-M	1161083001	HDD-072-M (1-72)	1160723001	HDD-108-M (1-108)	1161083001
			HDD-144-M (73-144)	1160723011	HDD-216-M (109-216)	1161083011
Female insert (F)	HDD-108-F	1161083101	HDD-072-F (1-72)	1160723101	HDD-108-F (1-108)	1161083101
			HDD-144-F (73-144)	1160723111	HDD-216-F (109-216)	1161083111

10A Crimp contacts, silver-plated

Technical data

Material: Copper, hard silver / gold plated

Contact resistance: ≤ 3mΩ

Termination methods: Crimp connection

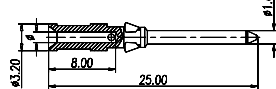
CDM



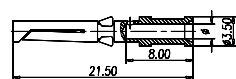
CDF



10A Male



10A Female



(mm ²) Wire gauge	Stripping length		Male insert Type	Male insert Part No.	Female insert Type	Female insert Part No.
0.14-0.37	AWG26-22	8.0mm	CDM-0.37	3150006104	CDF-0.37	3150006204
0.5	AWG20	8.0mm	CDM-0.5	3150006103	CDF-0.5	3150006203
0.75	AWG18	8.0mm	CDM-0.75	3150006105	CDF-0.75	3150006205
1.0	AWG18	8.0mm	CDM-1.0	3150006102	CDF-1.0	3150006202
1.5	AWG16	8.0mm	CDM-1.5	3150006101	CDF-1.5	3150006201
2.5	AWG14	6.2mm	CDM-2.5	3150006106	CDF-2.5	3150006206



HQ CONNECTOR

Series	HQ									
Number of contacts	5 + ⊕		7 + ⊕		12 + ⊕		8 + ⊕		4/2 + ⊕	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
额定电流 Rated current	16A		10A		10A		16A		40A / 10A	
额定电压 Rated voltage	400V		400V		400V		500V		690V / 250V	
线规 Wire gauge	0.14-4.0 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-4.0 mm ²		1.5-6.0 mm ² / 0.14-2.5 mm ²	
适配外壳 Size	H3A		H3A		H3A		H8A		H8A	
公接插体 Male insert (M)	HQ-005-M	1120053001	HQ-007-M	1120073001	HQ-012-M	1120123001	HQ-008-M	1120083001	HQ-4/2-M	1120063041
母接插体 Female insert (F)	HQ-005-F	1120053101	HQ-007-F	1120073101	HQ-012-F	1120123101	HQ-008-F	1120083101	HQ-4/2-F	1120063141

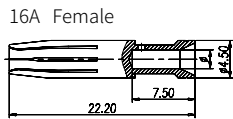
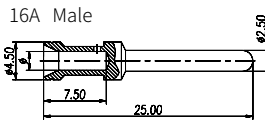
16A Crimp contacts, silver-plated

Technical data

Material: Copper, hard silver

Contact resistance: $\leq 1\text{m}\Omega$

Termination methods: Crimp connection



CEM

CEF

(mm ²) Wire gauge	Stripping length	Male insert Type	Male insert Part No.	Female insert Type	Female insert Part No.	
0.14-0.37	AWG26-22	7.5mm	CEM-0.37	3330006127	CEF-0.37	3330006227
0.5	AWG20	7.5mm	CEM-0.5	3330006121	CEF-0.5	3330006221
0.75	AWG18	7.5mm	CEM-0.75	3330006114	CEF-0.75	3330006214
1.0	AWG18	7.5mm	CEM-1.0	3330006105	CEF-1.0	3330006205
1.5	AWG16	7.5mm	CEM-1.5	3330006104	CEF-1.5	3330006204
2.5	AWG14	7.5mm	CEM-2.5	3330006102	CEF-2.5	3330006202
4.0	AWG12	7.5mm	CEM-4.0	3330006107	CEF-4.0	3330006207

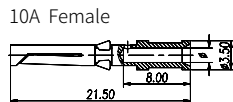
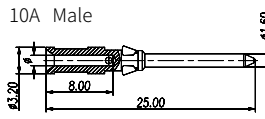
10A Crimp contacts, silver-plated

Technical data

Material: Copper, hard silver / gold plated

Contact resistance: $\leq 3\text{m}\Omega$

Termination methods: Crimp connection



CDM

CDF

(mm ²) Wire gauge	Stripping length	Male insert Type	Male insert Part No.	Female insert Type	Female insert Part No.	
0.14-0.37	AWG26-22	8.0mm	CDM-0.37	3150006104	CDF-0.37	3150006204
0.5	AWG20	8.0mm	CDM-0.5	3150006103	CDF-0.5	3150006203
0.75	AWG18	8.0mm	CDM-0.75	3150006105	CDF-0.75	3150006205
1.0	AWG18	8.0mm	CDM-1.0	3150006102	CDF-1.0	3150006202
1.5	AWG16	8.0mm	CDM-1.5	3150006101	CDF-1.5	3150006201
2.5	AWG14	6.2mm	CDM-2.5	3150006106	CDF-2.5	3150006206

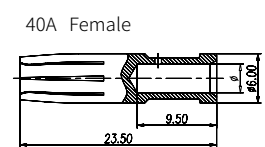
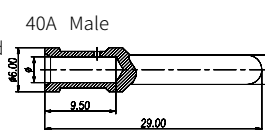
40A Contacts

Technical data

Material: Copper, hard silver / gold plated

Contact resistance: $\leq 4\text{m}\Omega$

Termination methods: Crimp connection



CMM

CMF

(mm ²) Wire gauge	(mm) Stripping length	Type	Crimp contacts, silver-plated Part No.	
1.5	AWG16	8.0mm	CMM-1.5	3320006104
2.5	AWG14	8.0mm	CMM-2.5	3320006105
4.0	AWG12	8.0mm	CMM-4.0	3320006107
6.0	AWG10	8.0mm	CMM-6.0	3320006108
10.0	AWG7	8.0mm	CMM-10	3320006109

(mm ²) Wire gauge	(mm) Stripping length	Type	Crimp contacts, silver-plated Part No.	
1.5	AWG16	8.0mm	CMF-1.5	3320006204
2.5	AWG14	8.0mm	CMF-2.5	3320006205
4.0	AWG12	8.0mm	CMF-4.0	3320006207
6.0	AWG10	8.0mm	CMF-6.0	3320006208
10.0	AWG7	8.0mm	CMF-10	3320006209

Technical characteristics







1 Inserts

UL/CSA Rated voltage	400V / 600V
Insulation resistance	$\geq 10^{10}\Omega$
Material	Polycarbonate
Limiting temperatures	-40°C ... +125°C
UL94 Flammability	V0
Mating cycles	≥ 500

2 Contacts

Material	Copper alloy
Surface	Hard-silver plated
	Hard-gold plated
HQ-005/HQ-008 Contact resistance	$\leq 1\text{m}\Omega$
HQ-007/HQ-0012 Contact resistance	$\leq 3\text{m}\Omega$
HQ-4/2 Contact resistance	$\leq 0.3\text{m}\Omega$

HQ CONNECTOR

Series	HQ				Coding element			
Number of contacts	2 + ⊕		21 + ⊕		Adapter HQ-005、HQ-008		Adapter HQ-012	
Termination terminal	Axial screw terminal		Crimp terminal (Order crimp contacts separately)					
					COD-Q5 1330009954		COD-Q12 1120009924	
	M F		M F		Adapter HQ-007		Adapter HQ-002	
								
Rated current	40A		5A		CODQ7-M 1120009901		HQ-DE 1120029922	
Rated voltage	400V		50V		CODQ7-F 1120009902			
Wire gauge	2.5-6.0 mm ²		0.08-0.52 mm ²					
Size	H3A		H3A					
Male insert (M)	HQ-002-MD	1120022653	HQ-021-M	1120213001				
Female insert (F)	HQ-002-FD	1120022753	HQ-021-F	1120213101				





Technical characteristics

1 Inserts

InsertsNumber of contacts	2+PE
EN 61984 Electrical data	
-Rated current	40 A
-Rated voltage	400 V
	830 V
-Rated impulse voltage	6 kV
-Pollution degree	3
UL/CSA Rated voltage	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C ...+125°C
UL94 Flammability	V0
Mating cycles	≥ 500

2 Contacts

Material	Copper alloy
Surface	Hard-silver plated
Contact resistance	≤ 1mΩ
Axial screw terminal	
-Wire specifications	2.5-6 mm ²
	4-10 mm ²
-AWG	14-8
-Tightening torque	1.8 Nm
Stripping length	8 mm ⁻¹

Series	Quintax Electromagnetic modules	Quintax-001	Quintax-004	Quintax-008
Termination terminal	adapter H3A housing	Crimp terminal (Order crimp contacts separately)	Crimp terminal (Order crimp contacts separately)	Crimp terminal (Order crimp contacts separately)
Module				
	M F	M F	M F	M F
Rated current		16A	10A	5A
Rated voltage		50V	50V	50V
Wire gauge		0.14-4.0 mm ²	0.14-2.5 mm ²	0.08-0.52 mm ²
Male insert (M)	H3A-001-M 5140011001	Quintax-001-M 5150013023	Quintax-004-M 5150043023	Quintax-008-M 5150083023
Female insert (F)	H3A-001-F 5140011101	Quintax-001-F 5150013123	Quintax-004-F 5150043113	Quintax-008-F 5150083113

Dimension Drawing



HSB CONNECTORS FOR HIGHER CURRENT

Series	HSB			
Number of contacts	6 + ⊕		12 + ⊕	
Termination terminal	Screw terminal		Screw terminal	
				
	M	F	M	F
Rated current	35 A		35 A	
Rated voltage	690 V		690 V	
Wire gauge	6.0 mm ²		6.0 mm ²	
Size	H16B		H32B	
Male insert (M)	HSB-006-M	1310062601	HSB-006-M (1-6)	1310062601
			HSB-012-M (7-12)	1310062611
Female insert (F)	HSB-006-F	1310062701	HSB-006-F (1-6)	1310062701
			HSB-012-F (7-12)	1310062711

Technical characteristics

1 Inserts



Inserts	Number of contacts	6,12+PE
EN 61984	Electrical data	
-Rated current		35A
-Rated current conductor-ground		400V
-Rated voltage conductor-conductor		690V
-Rated impulse voltage		6kV
-Pollution degree		3
-Or		35A 500V 6kV 3
UL/CSA	Rated voltage	600V
Insulation resistance		≥ 10 ¹⁰ Ω
Material		Polycarbonate
Limiting temperatures		-40°C ...+125°C
UL94	Flammability	V0
Mating cycles		≥ 500



2 Contacts

Material	Copper alloy
Surface	Hard-silver plated
Contact resistance	≤ 1mΩ
Crimp terminal	
-Wire specifications	6.0 mm ²
-AWG	10
-Tightening torque	1.2Nm



HIGH CURRENT CONNECTORS

Series	HSH		HWK	
Number of contacts	4/2 + ⊕		6/6 + ⊕	
Termination terminal	Quick lock / Cage clamp terminal		Screw terminal	
				
Rated current	M	40 A / 16 A	M	40 A / 16 A
Rated voltage		690 V / 400 V		690 V / 400 V
Wire gauge		0.5-6.0 mm ² / 0.14-2.5 mm ²		4-10 mm ² / 1-2.5 mm ²
Size		H16B		H16B
Male insert (M)	HSH-4/2-006-M	1319062601	HWK-6/6-M	1380122611
Female insert (F)	HSH-4/2-006-F	1319062701	HWK-6/6-F	1380122711

Series	HK			
Number of contacts	6/6 + ⊕		8/0 + ⊕	
Termination terminal	Axial screw terminal		Axial screw terminal	
				
Rated current	M	100 A / 16 A	M	100 A
Rated voltage		690 V / 400 V		690 V
Wire gauge		16-35 mm ² / 0.2-2.5 mm ²		10-25 mm ²
Size		H24B		H24B
Male insert (M)	HK-6/6-M	1380122651	HK-8/0-M	1380082653
Female insert (F)	HK-6/6-F	1380122751	HK-8/0-F	1380082753

HSH Technical characteristics

1 Inserts

InsertsNumber of contacts	4/2+PE
DIN EN 61984 Electrical data	
Power area	
-Rated current	40A
-Rated voltage	400V / 690V
-Rated impulse voltage	6kV
-Pollution degree	3
Signal area	
-Rated current	16A
-Rated voltage	230V / 400V
-Rated impulse voltage	4kV
-Pollution degree	3
UL/CSA Rated voltage	600V / 600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Mating cycles	≥ 500

2 Contacts

Material	Copper alloy
Surface	Hard-silver plated
Termination methods	Cage-clamp terminal
Contact resistance	
-Power contacts	≤ 0.3 mΩ
-Signal contacts	≤ 1 mΩ
Wire specifications	
Power contacts	
-mm ²	0.5-6.0 mm ²
-AWG	12-8
Signal contacts	
-mm ²	0.14-2.5 mm ²
-AWG	18-4
Tightening torque	
-Power contacts	mm ² 1.5 2.5 4 6 N.m 1.2 2 3 3
-Signal contacts	0.5 N.m

HWK Technical characteristics




1 Inserts

InsertsNumber of contacts	6/6+PE
DIN EN 61984 Electrical data	
Power area	
-Rated current	40A
-Rated voltage	400V / 690V
-Rated impulse voltage	6kV
-Pollution degree	3
Signal area	
-Rated current	16A
-Rated voltage	230V / 400V
-Rated impulse voltage	4kV
-Pollution degree	3
UL/CSA Rated voltage	600V / 600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Mating cycles	≥ 500

2 Contacts

Material	Copper alloy
Surface	Hard-silver plated
Termination methods	Screw terminal
Contact resistance	
-Power contacts	≤ 0.3 mΩ
-Signal contacts	≤ 1 mΩ
Wire specifications	
Power contacts	
-mm ²	4-10 mm ²
-AWG	12-8
Signal contacts	
-mm ²	1-2.5 mm ²
-AWG	18-4
Tightening torque	
-Power contacts	mm ² 1.5 2.5 4 6 10 16 N.m 1.2 2 3 3 3 3
-Signal contacts	0.5 N.m

HK HIGH CURRENT CONNECTORS

Series	HK					
Number of contacts	4/0 + ⊕		4/2 + ⊕		4/8 + ⊕	
Termination terminal	Screw terminal		Screw terminal		Screw terminal	
						
	M	F	M	F	M	F
Rated current	80 A		80 A / 16 A		80 A / 16 A	
Rated voltage	830 V		830 V / 400 V		830 V / 400 V	
Wire gauge	1.5-16 mm ²		1.5-16 mm ² / 0.5-2.5 mm ²		1.5-16 mm ² / 0.5-2.5 mm ²	
Size	H16B		H16B		H24B	
Male insert (M)	HK-4/0-M	1380062611	HK-4/2-M	1380062601	HK-4/8-M	1380122601
Female insert (F)	HK-4/0-F	1380062711	HK-4/2-F	1380062701	HK-4/8-F	1380122701



Technical characteristics

1 Inserts

Inserts/Number of contacts	4/0,4/2,4/8+PE
EN 61984 Electrical data	
Power area	
-Rated current	80A
-Rated voltage	830V
-Rated impulse voltage	8kV
-Pollution degree	3
-Pollution degree 2 also	80A 1000V 8kV 2
Signal area	
-Rated current	16A
-Rated voltage	400V
-Rated impulse voltage	6kV
-Pollution degree	3
-Pollution degree 2 also	16A 400V/690V 6kV 2
UL/CSA Rated voltage	600V/300V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C ...+125°C
Flammability acc. to (UL94)	V0
Mating cycles	≥ 500

2 Contacts

Power contacts	
Material	Copper alloy
Surface	Hard-silver plated
Contact resistance	≤ 0.3 mΩ
Screw terminal	
-mm ²	1.5-16 mm ²
-AWG	16-6
-Tightening torque	
-mm ²	1.5 2.5 4 6 10 16
-N.m	1.2 2 3 3 3 3
-Stripping length	14mm
Signal contacts	
Material	Copper alloy
Surface	Hard-silver plated
Contact resistance	≤ 1 mΩ
Screw terminal	
-mm ²	0.5-2.5 mm ²
-AWG	20-14
-Tightening torque	0.5 Nm
-Stripping length	7.5mm

Series	HTK							
Number of contacts	3/0 + ⊕				3/2 + ⊕			
Termination terminal	Axial screw terminal				Axial screw terminal			
								
	M	F	M	F	M	F	M	F
Rated current	200 A		200 A		200 A		200 A	
Rated voltage	1150 V / 2000 V		1150 V / 2000 V		1150 V / 2000 V		1150 V / 2000 V	
Size	IP68		IP68		IP65		IP65	
Male insert (M)	HTK-3/0-M	1280032621	HTK-3/2-M	1280052621	HTK-3/0-MT	1280032611	HTK-3/2-MT	1280052611
Female insert (F)	HTK-3/0-F	1280032721	HTK-3/2-F	1280052721	HTK-3/0-FT	1280032711	HTK-3/2-FT	1280052711

Technical characteristics




1 Inserts

Inserts/Number of contacts	3/0+PE,3/2+PE
DIN EN 61984 Electrical data	
Power area	
-Rated current	200A
-Rated voltage	1150V / 2000V
-Rated impulse voltage	8kV
-Pollution degree	3
Pollution degree 2 also	200A 2000V 12kV 2
Signal area	
-Rated current	16A
-Rated voltage	400V
-Rated impulse voltage	6kV
-Pollution degree	3
Pollution degree 2 also	16A 500V 6kV 2
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C ...+125°C
UL/CSA Rated voltage	V0
Mating cycles	≥ 500

2 Contacts

Material	Copper alloy
Surface	Hard-silver plated
Contact resistance	≤ 0.2 mΩ
IEC 60 228-5	
Axial screw terminal	
Strong electroacupuncture	
-Wire cross-section	35-70 mm ²
- AWG	2-00
- Allen Key	SW5
- Strpping Length	22mm
	mm ² 35 50 70
- Tightening torque	N.m 8 9 10
Ground pin	
-Wire cross-section	16-35 mm ²
- AWG	5-2
- Allen Key	SW4
- Strpping Length	14mm
- Tightening torque	6 N.m
(HK-003/2) Signal contacts	
-cross-section	2.5 mm ²
- AWG	14
- Strpping Length	7mm
- Tightening torque	0.5 N.m

HK HIGH CURRENT CONNECTORS

Series	HK					
Number of contacts	8/24 + ⊕		6/36 + ⊕		12/2 + ⊕	
Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
						
	M	F	M	F	M	F
Rated current	16A/10A		40A/10A		40A/10A	
Rated voltage	400V/160V		690V/160V		690V/250V	
Wire gauge	0.5-4.0 mm ² / 0.14-2.5 mm ²		1.5-6.0 mm ² / 0.14-2.5 mm ²		1.5-6.0 mm ² / 0.14-2.5 mm ²	
Size	H10B		H16B		H16B	
Male insert (M)	HK-8/24-M	1380323001	HK-6/36-M	1380423001	HK-12/2-M	1380123001
Female insert (F)	HK-8/24-F	1380323101	HK-6/36-F	1380423101	HK-12/2-F	1380123101

10A Crimp contacts, silver-plated

Technical data

Material: Copper, hard silver / gold plated
Contact resistance: ≤ 3mΩ
Termination methods: Crimp connection

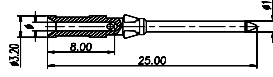
CDM



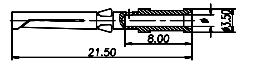
CDF



10A Male



10A Female



(mm ²) Wire gauge	Stripping length	Male insert Type	Male insert Part No.	Female insert Type	Female insert Part No.	
0.14-0.37	AWG26-22	8.0mm	CDM-0.37	3150006104	CDF-0.37	3150006204
0.5	AWG20	8.0mm	CDM-0.5	3150006103	CDF-0.5	3150006203
0.75	AWG18	8.0mm	CDM-0.75	3150006105	CDF-0.75	3150006205
1.0	AWG18	8.0mm	CDM-1.0	3150006102	CDF-1.0	3150006202
1.5	AWG16	8.0mm	CDM-1.5	3150006101	CDF-1.5	3150006201
2.5	AWG14	6.2mm	CDM-2.5	3150006106	CDF-2.5	3150006206

16A Crimp contacts, silver-plated

Technical data

Material: Copper, hard silver
Contact resistance: ≤ 1mΩ
Termination methods: Crimp connection

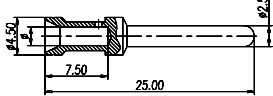
CEM



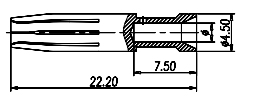
CEF



16A Male



16A Female



(mm ²) Wire gauge	Stripping length		Male insert Type	Male insert Part No.	Female insert Type	Female insert Part No.
0.14-0.37	AWG26-22	7.5mm	CEM-0.37	3330006127	CEF-0.37	3330006227
0.5	AWG20	7.5mm	CEM-0.5	3330006121	CEF-0.5	3330006221
0.75	AWG18	7.5mm	CEM-0.75	3330006114	CEF-0.75	3330006214
1.0	AWG18	7.5mm	CEM-1.0	3330006105	CEF-1.0	3330006205
1.5	AWG16	7.5mm	CEM-1.5	3330006104	CEF-1.5	3330006204
2.5	AWG14	7.5mm	CEM-2.5	3330006102	CEF-2.5	3330006202
4.0	AWG12	7.5mm	CEM-4.0	3330006107	CEF-4.0	3330006207

40A Contacts

Technical data

Material: Copper, hard silver / gold plated
Contact resistance: ≤ 4mΩ
Termination methods: Crimp connection

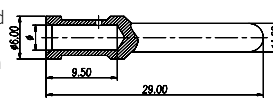
CMM



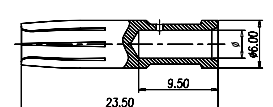
CMF



40A Male



40A Female



(mm ²) Wire gauge	(mm) Stripping length		Crimp contacts, silver-plated Part No.	
1.5	AWG16	8.0mm	CMM-1.5	3320006104
2.5	AWG14	8.0mm	CMM-2.5	3320006105
4.0	AWG12	8.0mm	CMM-4.0	3320006107
6.0	AWG10	8.0mm	CMM-6.0	3320006108
10.0	AWG7	8.0mm	CMM-10	3320006109

(mm ²) Wire gauge	(mm) Stripping length		Crimp contacts, silver-plated Part No.	
1.5	AWG16	8.0mm	CMF-1.5	3320006204
2.5	AWG14	8.0mm	CMF-2.5	3320006205
4.0	AWG12	8.0mm	CMF-4.0	3320006207
6.0	AWG10	8.0mm	CMF-6.0	3320006208
10.0	AWG7	8.0mm	CMF-10	3320006209

Technical characteristics

1 Inserts

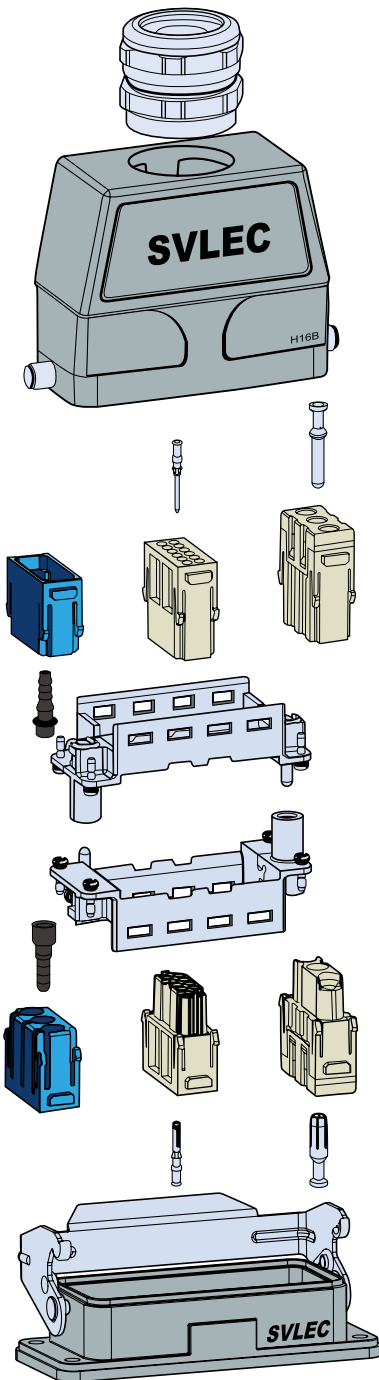
Signal area	
-Rated current	10A
-Rated voltage	160V
-Rated impulse voltage	2.5kV
-Pollution degree	3
UL/CSA Rated voltage	600V/300V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C ... +125°C
Flammability acc. to (UL94)	V0
Mating cycles	≥ 500

2 Contacts

Power contacts	Copper alloy
Material	Hard-silver plated
Surface	Hard-gold plated
	≤ 1 mΩ
Contact resistance	Copper alloy
Signal contacts	Hard-silver plated
Material	Hard-gold plated
Surface	≤ 3 mΩ
Contact resistance	

HM MODULAR

Assembly details



Modular units series is a new system of inserts designed to meet the specific requirements of individual customers. In close cooperation with potential users a range of modular inserts have been developed allowing the simple assembly of custom designed complete connectors which meet the diverse requirements encountered by designers today.

Modular units is a logical development of the product series which already offers the combination of power and signal circuits in one connector.

The individual modules of this series now allow the integration of electrical, optical and gaseous signal and power connections in one connector assembly.




The pneumatic contacts are also suitable for the connection of liquid media. However it must be stated that a combination of electrical and liquid connections in one connector is not allowed according to VDE regulations.



The individual contacts used in this system are all from existing well proven ranges and it is possible to use combinations of 1 to 12 modules depending on the size of the hoods and housings chosen.

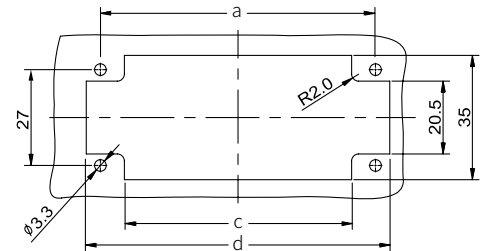
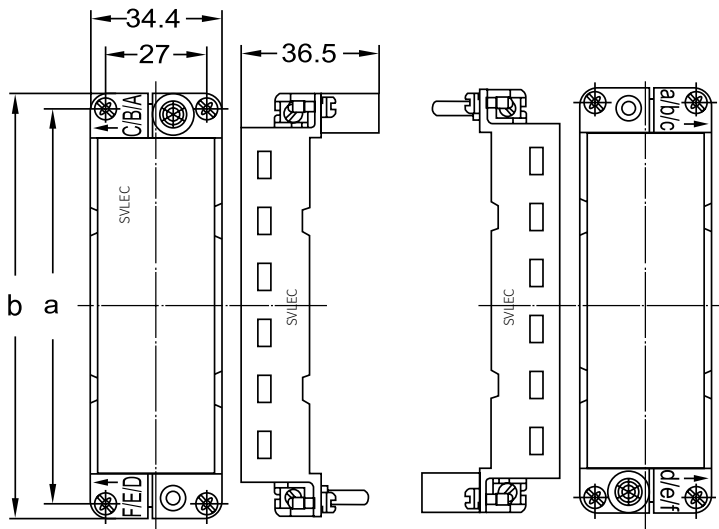
The basic modules snap into a mounting frame and can be exchanged separately at any time.

Advantages :

- ◆ Custom designs can be simply assembled
- ◆ Optimum solutions can be reached
- ◆ Stock can be minimized
- ◆ Install and remove without special tools


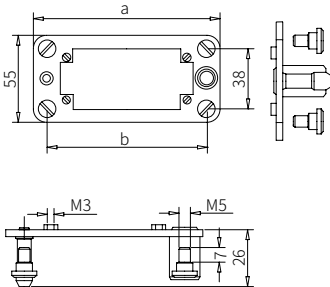
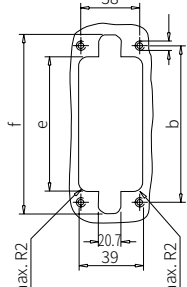
Series	HM Module Docking Bracket					
						
Size	H10A Frame, 1 standard module can be installed		H6B Frame, 2 standard module can be installed		H10B Frame, 3 standard module can be installed	
Male (M)	H10A-T1	5140100323	H6B-T2-M	5140060303	H10B-T3-M	5140100303
Female (F)			H6B-T2-F	5140060313	H10B-T3-F	5140100313

Series	HM Module Docking Bracket			
				
Size	H16B Frame, 4 standard module can be installed		H24B Frame, 6 standard module can be installed	
Male (M)	H16B-T4-M	5140160303	H24B-T6-M	5140240303
Female (F)	H16B-T4-F	5140160313	H24B-T6-F	5140240313







Hood/Housing	No. of modules	a	b	c	d
H10A	1	49.5	56.5	24	57.5
H6B	2	44	51	35	52
H10B	3	57	64.1	49	66
H16B	4	77.5	84.5	64	85.5
H24B	6	104	111	94	112

Distance for electric contacts max.21mm
 For pneumatic contacts max.20.5mm
 Each frame is composed of an upper and a lower bracket

Identification	Size	Part No.	Drawing	Dimensions in mm																									
Docking frame  Range of delivery: 1 Frame 4 Cheese head shoulder screws to fix the docking frame	H6B-ADK	5140060000	 <table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>b</th> <th>e</th> <th>f</th> </tr> </thead> <tbody> <tr> <td>H6B</td> <td>86</td> <td>69</td> <td>35</td> <td>52</td> </tr> <tr> <td>H10B</td> <td>99</td> <td>82</td> <td>48.1</td> <td>65.2</td> </tr> <tr> <td>H16B</td> <td>119.4</td> <td>102.5</td> <td>68.6</td> <td>85.7</td> </tr> <tr> <td>H24B</td> <td>145.9</td> <td>129</td> <td>95.1</td> <td>112.2</td> </tr> </tbody> </table>	Size	a	b	e	f	H6B	86	69	35	52	H10B	99	82	48.1	65.2	H16B	119.4	102.5	68.6	85.7	H24B	145.9	129	95.1	112.2	 Distance for electrical and F.O. contacts max. 27 mm; for pneumatic contacts max. 26.5 mm
	Size	a		b	e	f																							
	H6B	86		69	35	52																							
	H10B	99		82	48.1	65.2																							
H16B	119.4	102.5	68.6	85.7																									
H24B	145.9	129	95.1	112.2																									
H10B-ADK	5140100000																												
H16B-ADK	5140160000																												
H24B-ADK	5140240000																												

H MODULAR CONNECTORS





Series	HM-001	HM-001C	HM-002	HM-002C
Termination terminal	Axial screw terminal 	Crimp terminal (Order crimp contacts separately) 	Axial screw terminal 	Crimp terminal (Order crimp contacts separately) 
Rated current	200A	200A	100A	100A
Rated voltage	1000V	1000V	1000V	1000V
Wire gauge	25-40 mm ²	25-70mm ²	10-25 mm ²	10-35 mm ²
Male insert (M)	HM-001-MD 5140012663	HM-001C-M 5140013001	HM-002-MD 5140022653	HM-002C-M 5140023051
Female insert (F)	HM-001-FD 5140012763	HM-001C-F 5140013101	HM-002-FD 5140022753	HM-002C-F 5140023151
Wire gauge	40-70 mm ²		16-35 mm ²	
Male insert (M)	HM-001-M 5140012662		HM-002-M 5140022651	
Female insert (F)	HM-001-F 5140012762		HM-002-F 5140022751	

Series	HM-A02	HM-A02C	HM-3/4	HM-004
Termination terminal	Axial screw terminal 	Crimp terminal (Order crimp contacts separately) 	Crimp terminal (Order crimp contacts separately) 	Crimp terminal (Order crimp contacts separately) 
Rated current	70A	70A	40A/10A	40A
Rated voltage	1000V	1000V	830V	830V
Wire gauge	6-16 mm ² / 14-22 mm ²	10-25 mm ²	1.5-6.0 mm ² / 0.14-2.5 mm ²	1.5-6.0 mm ²
Male insert (M)	6-16mm ² HM-A02-MD 5140022646	HM-A02C-M 5140023041	HM-3/4-M 5140073001	HM-004-M 5140043041
Female insert (F)	6-16mm ² HM-A02-FD 5140022741	HM-A02C-F 5140023141	HM-3/4-F 5140073101	HM-004-F 5140043141
Male insert (M)	14-22mm ² HM-A02-M 5140022647			
Female insert (F)	14-22mm ² HM-A02-F 5140022742			

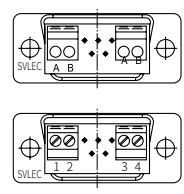


Series	HM-S02	HM-S02C	HM-S03	HM-003
Termination terminal	Axial screw terminal 	Crimp terminal (Order crimp contacts separately) 	Axial screw terminal 	Crimp terminal (Order crimp contacts separately) 
Rated current	40A	40A	40A	40A
Rated voltage	1000V	1000V	690V	690V
Wire gauge	2.5-10.0 mm ²	1.5-10.0 mm ²	2.5-10.0 mm ²	1.5-10.0 mm ²
Wire gauge	2.5-8 mm ²		2.5-8 mm ²	
Male insert (M)	HM-S02-MD 5140022601	HM-S02C-M 5140023002	HM-S03-MD 5140032601	HM-003-M 5140033001
Female insert (F)	HM-S02-FD 5140022701	HM-S02C-F 5140023102	HM-S03-FD 5140032701	HM-003-F 5140033101
Wire gauge	6-10 mm ²		6-10 mm ²	
Male insert (M)	HM-S02-M 5140022602		HM-S03-M 5140032602	
Female insert (F)	HM-S02-F 5140022702		HM-S03-F 5140032702	




Series	HM-020	HM-F06	HM-006	HM-008
Termination terminal	Crimp terminal (Order crimp contacts separately) 	Crimp terminal (Order crimp contacts separately) 	Crimp terminal (Order crimp contacts separately) 	Crimp terminal (Order crimp contacts separately) 
Rated current	16A	16A	16A	16A
Rated voltage	500V	830V	500V	400V
Wire gauge	0.14-4.0 mm ²	0.14-4.0 mm ²	0.14-4.0 mm ²	0.14-4.0 mm ²
Male insert (M)	HM-020-M 5140203001	HM-F06-M 5140063041	HM-006-M 5140063001	HM-008-M 5140083001
Female insert (F)	HM-020-F 5140203101	HM-F06-F 5140063141	HM-006-F 5140063101	HM-008-F 5140083101



HM MODULAR CONNECTORS

Series	HM-005		HM-012		HM-017		HM-025			
5A-16A	Termination terminal	Cage clamp terminal		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		
										
	Rated current	M	16A	F	M	10A	F	M	5A	F
	Rated voltage	400V		250V		160V		50V		
Wire gauge	0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²		0.08-0.52 mm ²			
Male insert (M)	HM-005-MS	5140052616	HM-012-M	5140123001	HM-017-M	5140173001	HM-025-M	5140253001		
Female insert (F)	HM-005-FS	5140052716	HM-012-F	5140123101	HM-017-F	5140173101	HM-025-F	5140253101		





Series	HMSH-006		HMSH-008		HMSH-012		
	Termination terminal	Quick lockCage clamp terminal		Quick lockCage clamp terminal		Quick lockCage clamp terminal	
							
	Rated current	M	16A	F	M	16A	F
	Rated voltage	500V		400V		250V	
Wire gauge	0.14-2.5 mm ²		0.14-2.5 mm ²		0.14-2.5 mm ²		
Male insert (M)	HMSH-006-M	5140062633	HMSH-008-M	5140082633	HMSH-012-M	5140122633	
Female insert (F)	HMSH-006-F	5140062733	HMSH-008-F	5140082733	HMSH-012-F	5140122733	

Series	HM-D Sub1		HM-D Sub2																														
D Sub	Termination terminal	Crimp terminal (Order crimp contacts separately)		Screw terminal (for RS485 plug)		<table border="1"> <tr> <th colspan="2">HM-D Sub2.1</th> </tr> <tr> <td>signal</td> <td>Pin</td> </tr> <tr> <td>A</td> <td>8</td> </tr> <tr> <td>B</td> <td>3</td> </tr> </table> <table border="1"> <tr> <th colspan="3">HM-D Sub2.2</th> </tr> <tr> <td>signal</td> <td>Male</td> <td>female</td> </tr> <tr> <td>1</td> <td>7</td> <td>8</td> </tr> <tr> <td>2</td> <td>2</td> <td>4</td> </tr> <tr> <td>3</td> <td>4</td> <td>2</td> </tr> <tr> <td>4</td> <td>8</td> <td>7</td> </tr> </table> 		HM-D Sub2.1		signal	Pin	A	8	B	3	HM-D Sub2.2			signal	Male	female	1	7	8	2	2	4	3	4	2	4	8	7
	HM-D Sub2.1																																
	signal	Pin																															
	A	8																															
B	3																																
HM-D Sub2.2																																	
signal	Male	female																															
1	7	8																															
2	2	4																															
3	4	2																															
4	8	7																															
																																	
Rated current	M	5A	M	5A	M	5A																											
Rated voltage	50V		50V		50V																												
Male insert (M)	HM-D Sub1.1-M	5140093001	HM-D Sub2.1-M	5140093051	HM-D Sub2.2-M	5140094051																											
Female insert (F)	HM-D Sub1.1-F	5140093101	HM-D Sub2.1-F	5140093151	HM-D Sub2.2-F	5140094151																											

Series	HM-MV002		HM-EV002		HM-DM		
40A/16A	Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		 Dummy module To fill up module spaces not in use in the frame	
							
	Rated current	M	40A	F	M	16A	F
	Rated voltage	5000V		5000V		5000V	
Wire gauge	1.5-10 mm ²		0.5-4 mm ²				
Male insert (M)	HM-MV002-M	5140023023	HM-EV002-M	5140023021	HM-DM	5140009950	
Female insert (F)	HM-MV002-F	5140023123	HM-EV002-F	5140023121			

Series	HM-USB 2.0		Coaxial connector					
RJ45/USB	Termination terminal							
	Rated current	M	1A	F	50MΩ		75MΩ	
	Rated voltage	50V						
	Wire gauge	0.14-0.5 mm ²						
Male insert (M)	HM-USB-M	5140014601	HM-C50-M	5140044501	HM-C75-M	5140044502		
Female insert (F)	HM-USB-F	5140014701	HM-C50-F	5140044503	HM-C75-F	5140044504		

HM-Q SERIES TECHNICAL PARAMETERS

Series	HM-Q2		Quintax-001		Quintax-004		Quintax-008		
Shielded Modules	Termination terminal	Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)		Crimp terminal (Order crimp contacts separately)	
									
		M	F	M	F	M	F	M	F
	Rated current			16A		10A		5A	
Rated voltage			50V		50V		50V		
Wire gauge			0.14-4.0 mm ²		0.14-2.5 mm ²		0.08-0.52 mm ²		
Male insert (M)	HM-Q2-M	5140023001	Quintax-001-M	5150013023	Quintax-004-M	5150043023	Quintax-008-M	5150083023	
Female insert (F)	HM-Q2-F	5140023101	Quintax-001-F	5150013123	Quintax-004-F	5150043113	Quintax-008-F	5150083113	

Technical characteristics

1 Inserts

Inserts Number of contacts	2
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C ... +85°C
Flammability acc. to (UL94)	V0
Mating cycles	≥ 500

2 Quintax 针 Contacts

Number of contacts	
- E Quintax	1+ Shielding
- D Quintax	4+ Shielding
- A Quintax	8+ Shielding
EN 61 984 Electrical data	
-E Quintax	16A 50V 0.8kV 3
-D Quintax	10A 50V 0.8kV 3
-A Quintax	5A 50V 0.8kV 3
Rated current	16/10/5A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Impedance	
-E Quintax	50 Ω
-D Quintax	75 Ω
Material	
-Insulator	Polycarbonate
-Outer conductor	Zinc alloy
Contact resistance	≤ 4 mΩ
Limiting temperatures	-40°C ... +85°C
UL94 Flammability acc. to UL 94	V0
Outer surface finish	Nickel
Cable diameter	3-9.5 mm

3 E (16A) Contacts

Material	Copper alloy
Surface	Hard-gold plated
Contact resistance	≤ 1 mΩ
Crimp terminal	
-mm ²	0.14-4 mm ²
-AWG	26-12

4 D (10A) Contacts

Material	Copper alloy
Surface	Hard-gold plated
Contact resistance	≤ 3 mΩ
Crimp terminal	
-mm ²	0.14-2.5 mm ²
-AWG	26-14

5 A (5A) Contacts

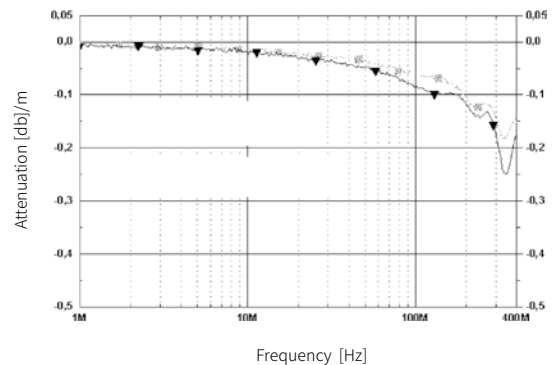
Material	Copper alloy
Surface	Hard-gold plated
Contact resistance	≤ 3 mΩ
Crimp terminal	
-mm ²	0.09-0.52 mm ²
-AWG	28-20



Features

- Modular structure
- Insert the shielding enclosure will not break off
- Shielding conduction has nothing to do with the shell electric potential
- To facilitate transport extremely sensitive signals (bus)

Transmission characteristics

Impedance 75 Ω



 75Ω Cable
 75Ω D Quintax Cable with D Quintax
 75Ω Diameter shielding: 7.3mm

Impedance 50 Ω

E RG 213 cable (2.5mm ²) E with RG 213 cable	27 MHz						
[db] Rreturn loss	35.4						
[db] Attenuation	0.017						
E RG 213 cable (2.5mm ²) E with RG 213 cable	200 MHz	500 MHz	1.0 MHz	1.2 MHz	1.5 MHz	2.0 MHz	2.5 MHz
[db] Rreturn loss	23.8	21.1	>18.7	>17.7	>16.4	>14.1	>12.0
[db] Attenuation	0.07	0.11	0.17	0.2	<0.23	<0.53	<2.0

HM PNEUMATIC MODULAR

Series	HM-PA2				HM-PA3				
Pneumatic modular	Applicable air nozzle	6.0 mm (Order contacts separately)				1.6; 3.0; 4.0 mm (Order contacts separately)			
									
	Module	HM-PA2	5140024501			HM-PA3	5140034501		
		Pneumatic contacts (For Ø6.0mm)				Pneumatic contacts (For Ø1.6-4.0mm)			
Without shut off (M)		Ø6.0	PNEU-PA2-6.0M	5140006174		Ø1.6	PNEU-PA3-1.6M	5140006151	
Without shut off (F)		Ø6.0	PNEU-PA2-6.0F	5140006274		Ø3.0	PNEU-PA3-3.0M	5140006152	
						Ø4.0	PNEU-PA3-4.0M	5140006153	
						Ø1.6	PNEU-PA3-1.6F	5140006251	
With shut off		Ø6.0	PNEU-PA2-6.0FW	5140006279		Ø3.0	PNEU-PA3-3.0F	5140006252	
						Ø4.0	PNEU-PA3-4.0F	5140006253	
						Ø1.6	PNEU-PA3-1.6FW	5140006256	
						Ø3.0	PNEU-PA3-3.0FW	5140006257	
						Ø4.0	PNEU-PA3-4.0FW	5140006258	

HM-PA Technical characteristics

1 Inserts

Inserts	Number of contacts	2, 3
	Material	Polycarbonate
	Limiting temperatures	-40°C ...+80°C
	UL94 Flammability	V0
	Mating cycles	≥ 500

2 Contacts

Material	Delrin acetal
Colour	Black
Tube termination	
-Internal diameter (ID)	6.0mm / 1/4"
	1.6mm / 1/16"
	3.0mm
	4.0mm / 1/8"
Working pressure	up to 8 bar / 116 psi
Sealing	
-Material	Buna-N
Shut off valve	
-Material	Polypropylen

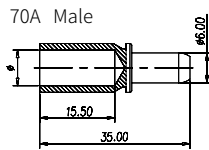
Series	HM-PAM2				HM-PAM3				
Pneumatic modular	Applicable air nozzle	6.0 mm (Order contacts separately)				4.0 mm (Order contacts separately)			
									
	Module	HM-PAM2	5140023501			HM-PAM3	5140033501		
		Pneumatic contacts (For Ø6.0mm)				Pneumatic contacts (For Ø1.6-4.0mm)			
Without shut off (M)		Ø6.0	PNEU-PAM2-6.0M	5140006306		Ø4.0	PNEU-PAM3-4.0M	5140006304	
Without shut off (F)		Ø6.0	PNEU-PAM2-6.0F	5140006406		Ø4.0	PNEU-PAM3-4.0F	5140006404	
With shut off		Ø6.0	PNEU-PAM2-6.0FW	5140006416		Ø4.0	PNEU-PAM3-4.0FW	5140006414	

CONTACTS

70A Contacts

Technical data

Material: Copper, hard silver / gold plated
 Contact resistance: $\leq 1\text{ m}\Omega$
 Termination methods: Crimp connection



(mm ²) Wire gauge	Ø	(mm) Stripping length	Type	Crimp contacts, silver-plated Part No.
10	4.3	15.5	CKM-10	3110006131
16	5.5	15.5	CKM-16	3110006132
25	7.0	15.5	CKM-25	3110006133

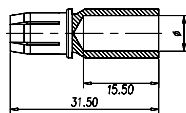
CKM



CKF



70A Female

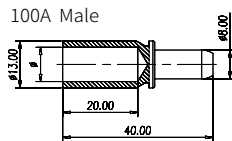


(mm ²) Wire gauge	Ø	(mm) Stripping length	Type	Crimp contacts, silver-plated Part No.
10	4.3	15.5	CKF-10	3110006231
16	5.5	15.5	CKF-16	3110006232
25	7.0	15.5	CKF-25	3110006233

100A Contacts

Technical data

Material: Copper, hard silver / gold plated
 Contact resistance: $\leq 1\text{ m}\Omega$
 Termination methods: Crimp connection



(mm ²) Wire gauge	Ø	(mm) Stripping length	Type	Crimp contacts, silver-plated Part No.
10	4.3	19	CNM-10	3110006114
16	5.5	19	CNM-16	3110006116
25	7	19	CNM-25	3110006125
35	8.2	19	CNM-35	3110006135

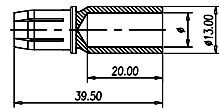
CNM



CNF



100A Female

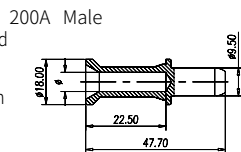


(mm ²) Wire gauge	Ø	(mm) Stripping length	Type	Crimp contacts, silver-plated Part No.
10	4.3	19	CNF-10	3110006214
16	5.5	19	CNF-16	3110006216
25	7	19	CNF-25	3110006225
35	8.2	19	CNF-35	3110006235

200A Contacts

Technical data

Material: Copper, hard silver / gold plated
 Contact resistance: $\leq 4\text{ m}\Omega$
 Termination methods: Crimp connection



(mm ²) Wire gauge	Ø	(mm) Stripping length	Type	Crimp contacts, silver-plated Part No.
25	7	22.5	CHM-25	3110006120
35	8.2	22.5	CHM-35	3110006121
50	10	22.5	CHM-50	3110006122
70	11.5	22.5	CHM-70	3110006123

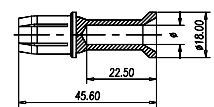
CHM



CHF



200A Female



(mm ²) Wire gauge	Ø	(mm) Stripping length	Type	Crimp contacts, silver-plated Part No.
25	7	22.5	CHF-25	3110006220
35	8.2	22.5	CHF-35	3110006221
50	10	22.5	CHF-50	3110006222
70	11.5	22.5	CHF-70	3110006223

HM Technical characteristics

1 Inserts

Insulation resistance	$\geq 10^{10}\Omega$
Material	Polycarbonate
Limiting temperatures	-40°C ...+125°C
UL94 Flammability	V0
Mating cycles	≥ 500

2 Contacts

Material	Copper alloy
Surface	Hard-silver plated
Contact resistance	
HM-001, HM-002, HM-003, HM-3/4, HM-004	$\leq 0.3\text{ m}\Omega$
HM-006, HM-008, HM-020	$\leq 1\text{ m}\Omega$
HM-012, HM-017, HM-025, HM-D Sub	$\leq 3\text{ m}\Omega$

TOOL

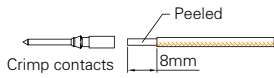
<p>Crimping tool Wire gage: 0.5-4.0mm² For HD/HDD/HEE/HK/HM Inserts</p>  <p>Jaw crescent Jaw hexagonal</p>  <p>According to the demand of choose and buy jaw shape</p>	<p>Crimping tool (Jaw hexagonal) Wire gage: 4.0-6.0mm² For HD/HDD/HEE/HK/HM Inserts</p>  	<p>Crimping tool For D-Sub Crimp contacts series For 5A Inserts</p> 
<p>Part No. 600001001</p>	<p>Part No. 600001002</p>	<p>Part No. 999991</p>

<p>Removal tool For HEEE Series</p> 	<p>Removal tool For CMM/CMF Series</p> 	<p>Removal tool For D-Sub Series For 5A Inserts</p> 	<p>Removal tool For HD/HDD Series</p> 
<p>Part No. 600002002</p>	<p>Part No. 600002003</p>	<p>Part No. 600002004</p>	<p>Part No. 600003001</p>

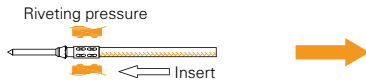
DD INSTALLATION AND DISASSEMBLY INSTRUCTIONS

Pin Step

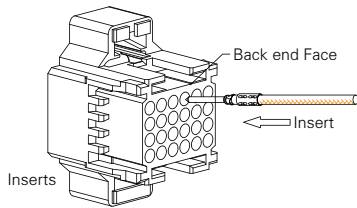
- 1 Peel off the conductor insulating layer, reference stripping length 8mm;



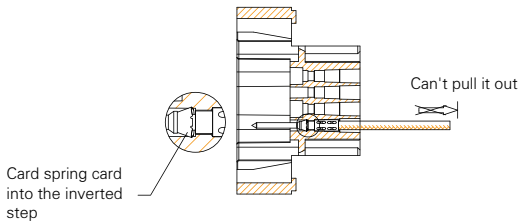
- 2 Inserting the wire into the back hole of the needle and pressing with the cold pressure clamp;



- 3 Inserting the insertion pin into the insert through the inserting hole from the back end face of the insert body;

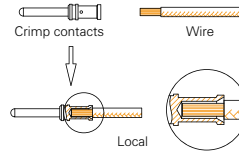


- 4 Push the pins into the hole to be in place (hear the crisp Carbon to insert in place).



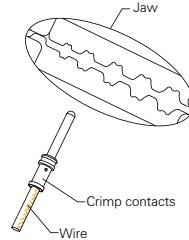
Crimp terminal

1. Insert the wire into the bottom of the cold pressure pinhole.

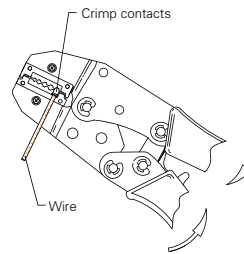


Note: The pinhole and the wire must match, otherwise it may cause the wiring difficulty or the pressure line is not tight.

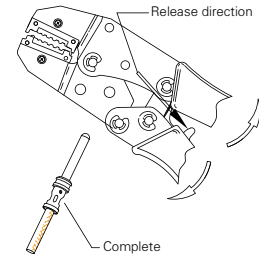
2. Insert pins into proper jaws.



3. Press Tight



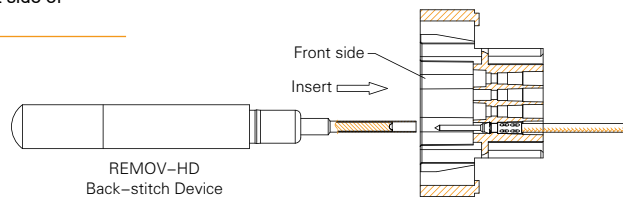
4. Loosen cold pressure clamp, remove cold pressure pin.



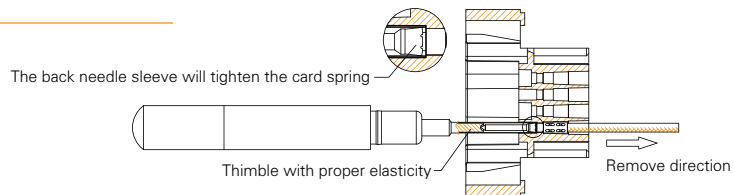
Note: Cold pressure crimping tools related to product quality stability, please select our certification tools.

Step back

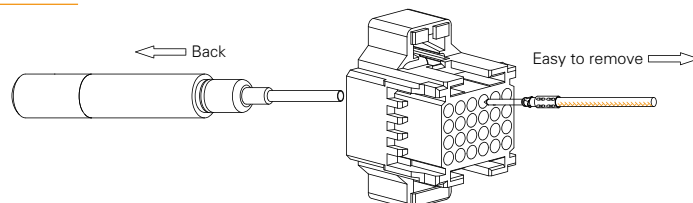
- 1 Insert the REMOV-D retract vertically along the Jack's front side of the pin in the diagram position.



- 2 Insert the REMOV-D back needle into the bottom, lock the spring, and naturally eject the pins.

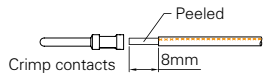


- 3 Remove pin



Pin Step

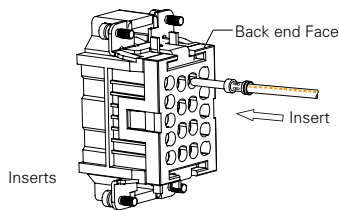
- 1 Peel off the conductor insulating layer, reference stripping length 8mm;



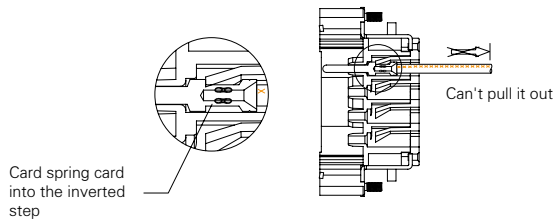
- 2 Inserting the wire into the back hole of the needle and pressing with the cold pressure clamp;



- 3 Inserting the insertion pin into the insert through the inserting hole from the back end face of the insert body;

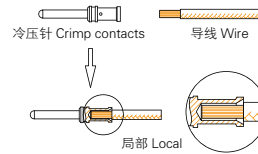


- 4 Push the pins into the hole to be in place (hear the crisp Carbon to insert in place).



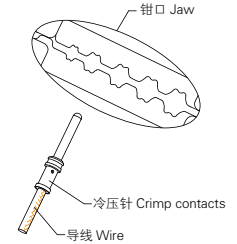
冷压针压接 Crimp terminal

1. 将导线插入冷压针孔内底部。
Insert the wire into the bottom of the cold pressure pinhole.
2. 将插针插入合适的钳口。
Insert pins into proper jaws.

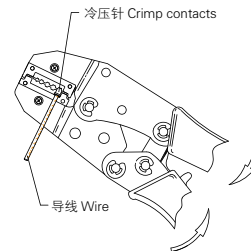


注意：针孔与导线必须匹配，否则有可能导致装线困难或压线不紧。

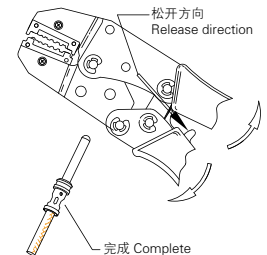
Note: The pinhole and the wire must match, otherwise it may cause the wiring difficulty or the pressure line is not tight.



3. 压紧 Press Tight



4. 松开冷压钳，去除冷压针。
Loosen cold pressure clamp, remove cold pressure pin.

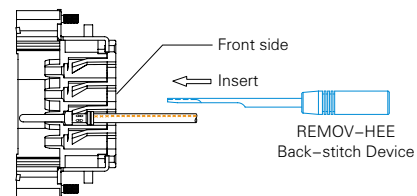


注意事项：冷压压接的工具关系到产品的品质稳定性，请选择我司认证的工具。

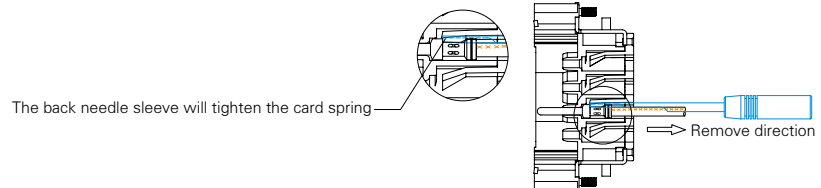
Note: Cold pressure crimping tools related to product quality stability, please select our certification tools.

Step back

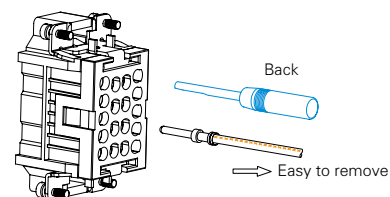
- 1 Insert the REMOVE-HEE retract vertically along the Jack's front side of the pin in the diagram position.



- 2 Insert the REMOVE-HEE back needle into the bottom, lock the spring, and naturally eject the pins.







- 3 Remove pin



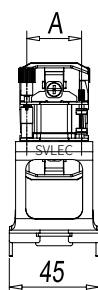
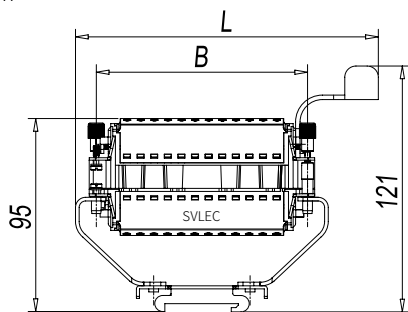
INSERT RAIL MOUNTING ELEMENT



Without core	Type	Part No.
 Metal bracket fixing screw A	柜内导轨安装金属支架 6B	2330000006
 Metal bracket fixing screw B	柜内导轨安装金属支架 10B	2330000010
 fixing bracket	柜内导轨安装金属支架 16B	2330000016
 Kidnapping of metal bracket	柜内导轨安装金属支架 24B	2330000024

Series	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
HE 16A 500V 6、10、16、24 P	SNAP-HE-006-6B	2330000606	SNAP-HE-010-10B	2330001010	SNAP-HE-016-16B	2330001616	SNAP-HE-024-24B	2330002424
HESH 16A 500V 6、10、16、24 P	SNAP-HESH-006-6B	2330010606	SNAP-HESH-010-10B	2330011010	SNAP-HESH-016-16B	2330011616	SNAP-HESH-024-24B	2330012424
HEESH 16A 500V 6、10、16、24 P	SNAP-HEESH-006-6B	2330020606	SNAP-HEESH-010-10B	2330021010	SNAP-HEESH-016-16B	2330021616	SNAP-HEESH-024-24B	2330022424
HEE 16A 500V 10、18、32、46 P	SNAP-HEE-010-6B	2320001006	SNAP-HEE-018-10B	2320001810	SNAP-HEE-032-16B	2320003216	SNAP-HEE-046-24B	2320004624
HEEE 16A 400V 64、72 P	/	/	/	/	/	/	SNAP-HEEE-072-24B	2320007224
HD 10A 250V 40、64 P	/	/	/	/	SNAP-HD-040-16B	2210004016	SNAP-HD-064-24B	2210006424
HDD 10A 250V 24、42、72、108 P	SNAP-HDD-024-6B	2160002406	SNAP-HDD-042-10B	2160004210	SNAP-HDD-072-16B	2160007216	SNAP-HDD-108-24B	2160010824
HSB 35A 690V 6 P	/	/	/	/	SNAP-HSB-006-16B	2310000616	/	/

Dimension



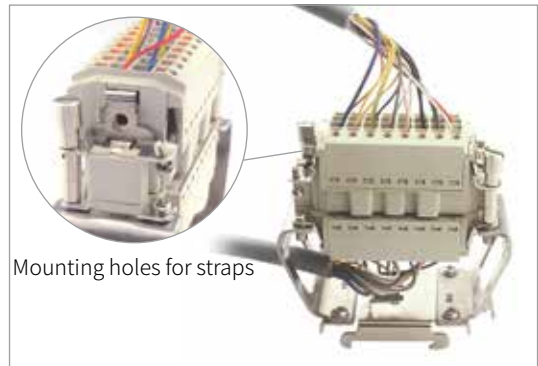
Brackets	L (mm)	A (mm)	B (mm)
SNAP-6B-S	89	27	44
SNAP-10B-S	102	27	57
SNAP-16B-S	122	27	77.5
SNAP-24B-S	149	27	104

INSERT RAIL MOUNTING ELEMENT

Metal rail mounting bracket steps



1: Guideway bracket



Mounting holes for straps

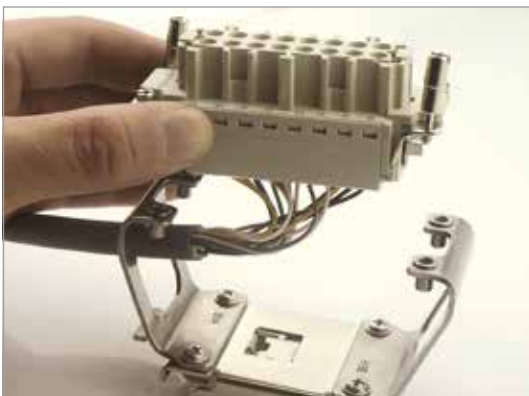
5: Insertion of male plug



2: Thread



6: Installation Bracket



3: Plug-in corresponding harness



7: Snap-in guide



4: Install the rail bracket and lock the screws





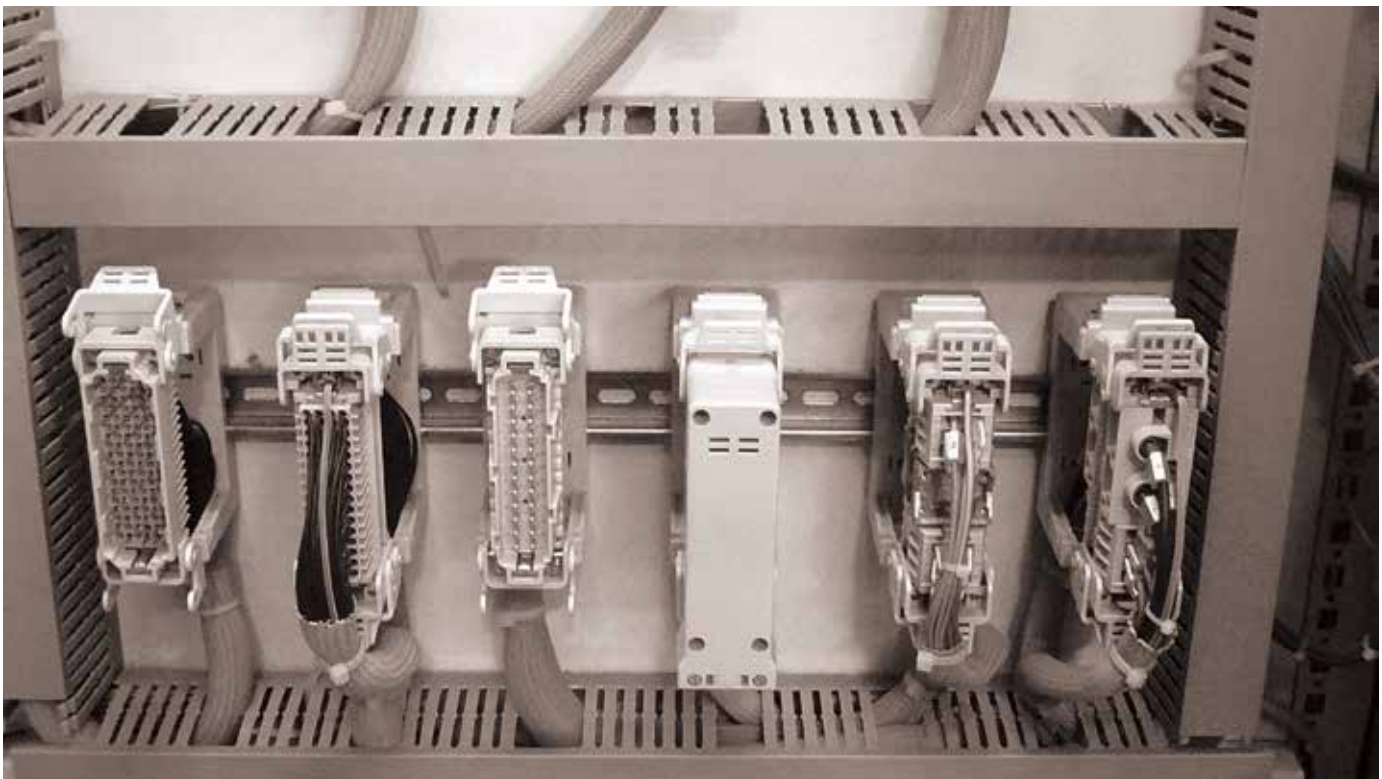
8: Completing the Installation

INSERT RAIL MOUNTING ELEMENT



Insert mounting with carrier element
Set include: Top and base frame

	Type	Part No.		Type	Part No.
 Internal connectors should be ordered separately	SPSB-TOP-6B	2330009927	 Internal connectors should be ordered separately	SNAP-6B	2330009991
	SPSB-TOP-10B	2330009947		SNAP-10B	2330009993
	SPSB-TOP-16B	2330009967		SNAP-16B	2330009995
	SPSB-TOP-24B	2330009987		SNAP-24B	2330009997
Base standard  Internal connectors should be ordered separately	SPSB-BASE-6B	2330009806			
	SPSB-BASE-10B	2330009810			
	SPSB-BASE-16B	2330009816			
	SPSB-BASE-24B	2330009824			



INSTALLATION ELEMENTS

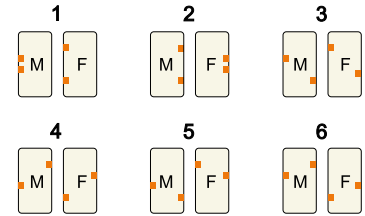
Coding element series (with guide pins)

Encoding profile

Foolproof coding block, up to 6 connectors with the same number of digits can be coded differently
Suitable for 16, 24 cores



Part No. 1300009900



Coding pins/guide pins (single use)
Standard code pin

The coded pins should be used in plugs and sockets corresponding to the following coding form
For hood / housing with one insert / one frame

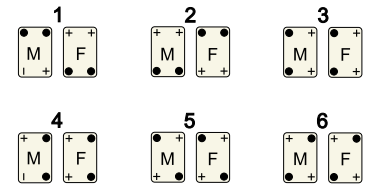
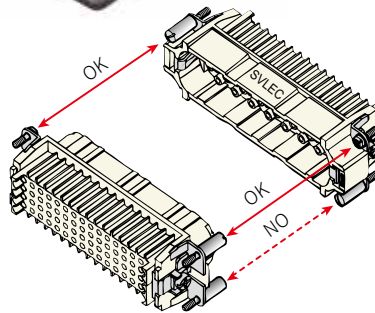
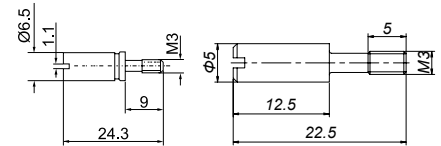
Standard



Module is special



Standard: 1300009901
Module is special: 1300009902

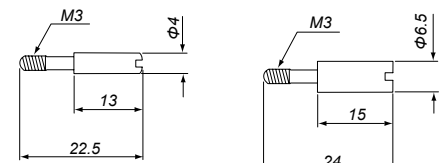


Standard code pin (with guide pins)



coding pin F

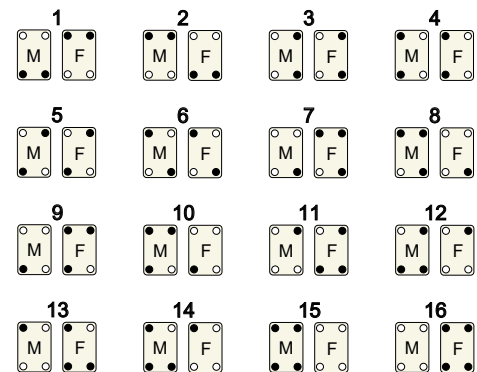
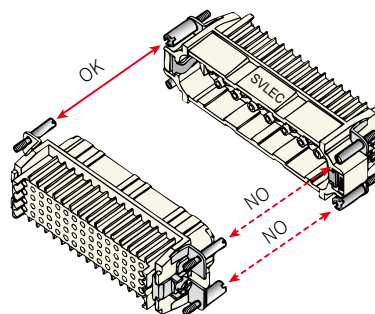
coding pin M



coding pin M

coding pin F

coding pin M: 1300009908
coding pin F: 1300009909



HOOD & HOUSING TECHNICAL CHARACTERISTICS

3A Plastic housing IP65

Material	Polycarbonate
Colour	Light grey (RAL 7032)
Locking element	
-Locking	Plastic elastic pressing
-Material	Polyamide
Seal	NBR
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Protection degree(EN60529)	IP65

3A metal housing IP65

Material	Zinc die-cast
Colour	Grey
Locking element	
-Locking	Plastic elastic pressing
-Material	Metal (iron) zinc-plated
Seal	NBR
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Protection degree(EN60529)	IP65

3A High protection housing IP68

Surface	Epoxy powder paint / chromated
Material	Zinc die-cast
Colour	Black / grey
Locking element	
-Locking	Screw terminal
-Material	Stainless steel
Seal	NBR
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Protection degree(EN60529)	IP68

EMC housing IP65

Material	Zinc die-cast
Colour	
Locking element	
-Locking	Plastic elastic press fit/bolt on
-Material	Stainless steel
Seal	NBR
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Protection degree(EN60529)	IP65

Metal housing IP65




Material	Aluminium die-cast
Colour	Grey
Locking element	
-Locking	Metal elastic pressing
-Material	Stainless steel
Seal	NBR
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Protection degree(EN60529)	IP65

High protection housing IP68

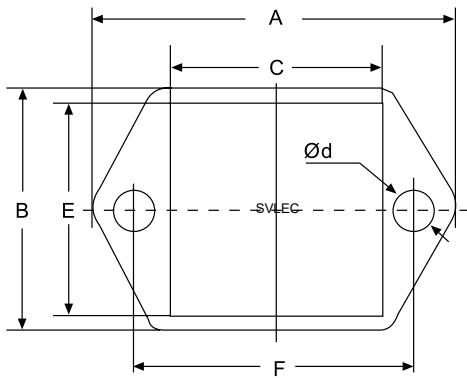
Material	Aluminium die-cast
Colour	Black or grey
Locking element	
-Locking	Screw terminal
-Material	Stainless steel
Seal	NBR
Limiting temperatures	-40°C ...+125°C
Flammability	V0
Protection degree(EN60529)	IP68

Stainless steel cover

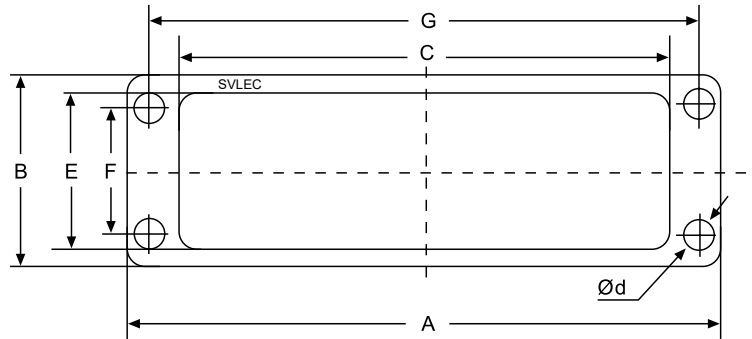
	Type	Part No.
	H3A-AG-C	FJ0115-1
	H16A-AG-C	FJ0114-1
	H6B-AG-C	FJ0110-1

	Type	Part No.
	H10B-AG-C	FJ0111-1
	H16B-AG-C	FJ0112-1
	H24B-AG-C	FJ0113-1

HOUSINGS MOUNTING DIMENSIONS




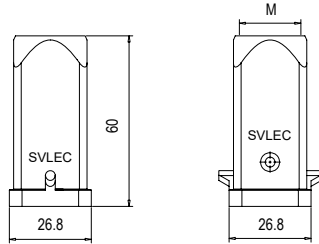

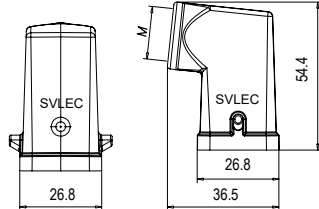

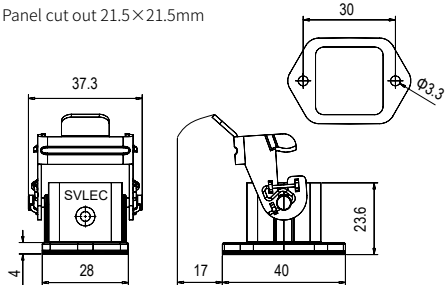

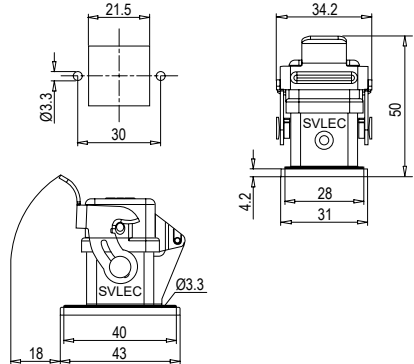

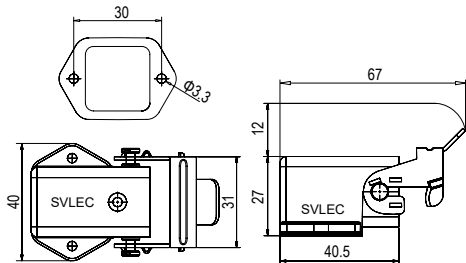
H3A layout base



H10A, H16A, H32A series housings
 H6B, H10B, H16B, H24B, H32B, H48B series housings


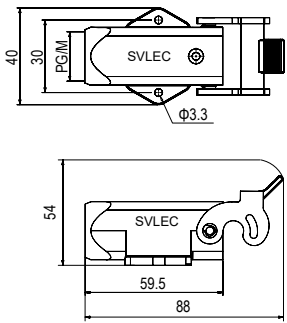

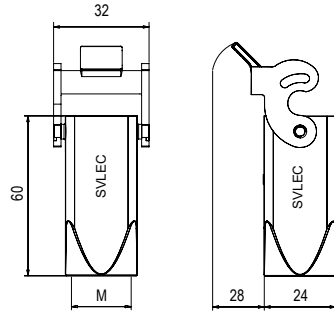

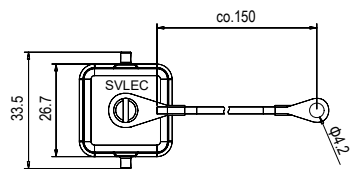

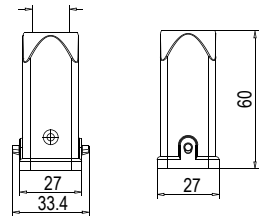

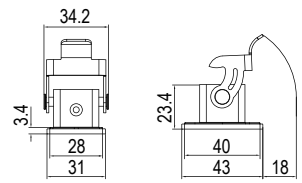
Housing type	Mounting type	dimensions (mm)						
		A	B	C	E	F	G	Ød
H3A	Bulkhead	40	28	21.5	21.5	30	-	3.3
	Surface	40	28	-	-	30	-	3.3
H10A	Bulkhead	81	29.5	57.5	24	17.5	70	3.6
	Surface	80	50	-	-	40	48	4.5
H16A	Bulkhead	96	29.5	73.7	24	17.5	86	3.6
	Surface	80	50	-	-	40	64	4.5
H32A	Bulkhead	102	56	74.2	48.4	42	92	4.3
	Surface	106	57	-	-	46	94	5.5
H6B	Bulkhead	80	43	52.2	35	32	70	4.3
	Low Surface High	82	52	-	-	40	70	5.5
	Surface	82	57	-	-	45	70	5.5
H10B	Bulkhead	93	43	65.2	35	32	83	4.3
	Low Surface High	94	52	-	-	40	82	5.5
	Surface	94	57	-	-	45	82	5.5
H16B	Bulkhead	113	43	85.5	35	32	103	4.3
	Surface	117	57	-	-	45	105	5.5
H24B	Bulkhead	140	43	112.2	35	32	130	4.3
	Surface	144	57	-	-	45	132	5.5
H32B	Bulkhead	124	79	85.5	71	65	110	5.5
	Surface	124.5	81	-	-	67	112	5.5
H48B	Bulkhead	165	90	124	82	70	148	7
	Surface	132	120	-	-	106	111	6.5

H3A HOODS / HOUSINGS SERIES

Metal hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
<p>Top entry</p> 	H3A-MTG-M20	2200031440	20		
<p>Side entry</p> 	H3A-MTS-M20	2200031640	20		
<p>Bulkhead mounting: Bottom entry</p> 	H3A-MAG	2200030301		<p>Panel cut out 21.5×21.5mm</p> 	
<p>Bulkhead mounting: Bottom entry</p> 	H3A-MAD	2200030306			
<p>Bulkhead mounting: Bottom entry</p> 	H3A-MAGS	2200030810			


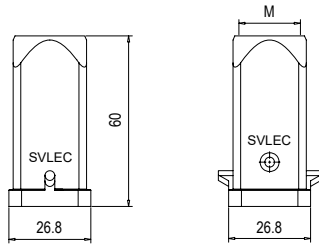

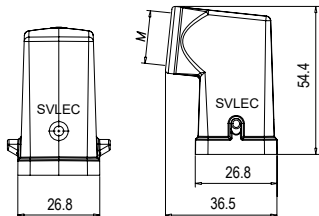

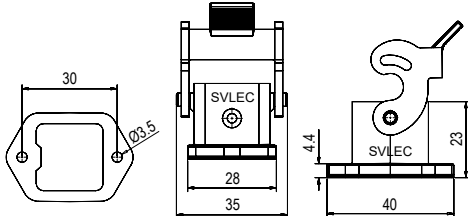

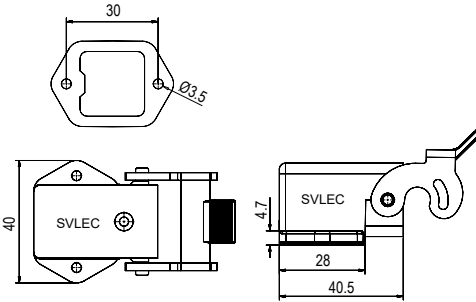

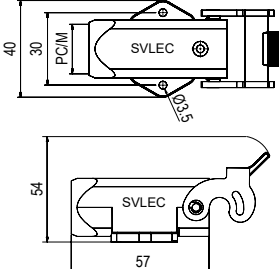
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H3A HOODS / HOUSINGS SERIES

Metal hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Surface mounting 	H3A-MAGSV-M20	2200031252	20		
Cable to cable hood 	H3A-MTGVB-M20	2200031750	20		
Protection covers for metal housings  <p>Note: for female+housings</p>	H3A-KDBM	2200035425			
Hoods top entry shielding case 	H3AEC-TG-M20	2620031440	20		
Housings, bulkhead mounting shielding case 	H3AEC-AG	2620030301			


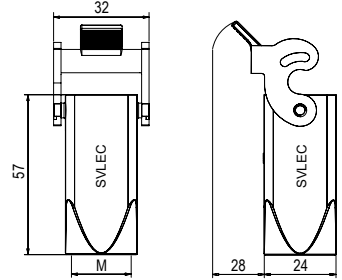
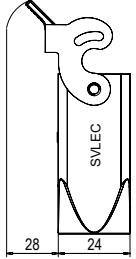

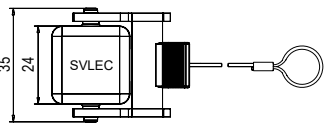

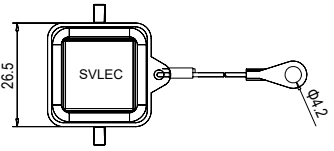

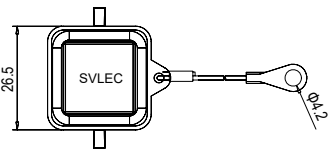
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H3A HOODS / HOUSINGS SERIES

Thermoplastic hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Top entry 	H3A-TG-M20	2200030420	20		
Side entry 	H3A-TS-M20	2200030620	20		
Bulkhead mounting: Bottom entry 	H3A-AG	2200030320		Panel cut out 21.5×21.5mm 	
Bulkhead mounting: Bottom entry 	H3A-AGS	2200030820			
Surface mounting: Side entry 	H3A-AGSV-M20	2200030220	20		

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.


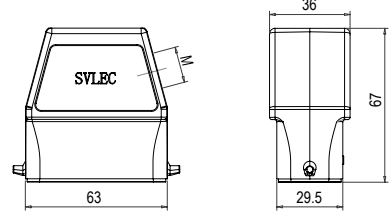

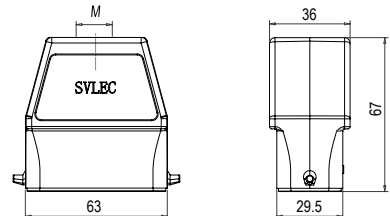

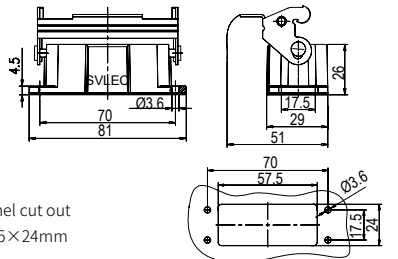

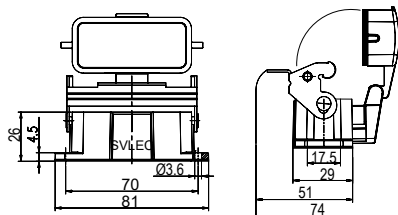

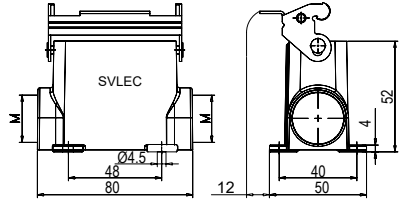

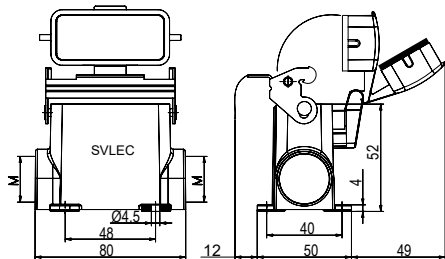
H3A HOODS / HOUSINGS SERIES

Thermoplastic hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Cable to cable hood 	H3A-TGVB-M20	2200030720	20		
Protection covers for hoods 	H3A-KDT	2200035422			
Protection covers for housings  <p>Note: for male+housings</p>	H3A-KDT-T	2200035447			
Protection covers for housings  <p>Note: for female+housings</p>	H3A-KDB	2200035446			

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.


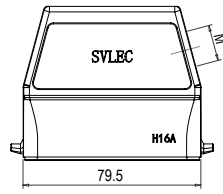
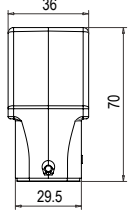

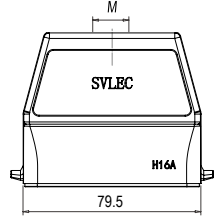
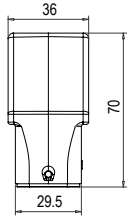

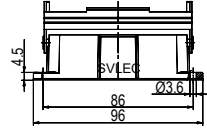
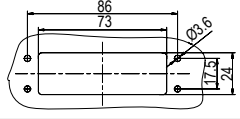
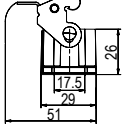

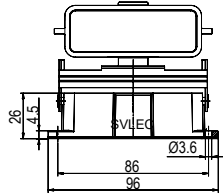
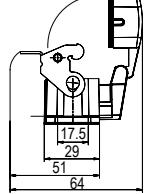

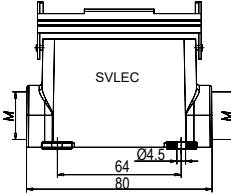
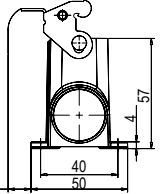

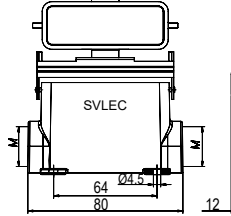
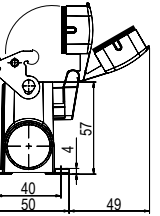


H10A HOODS / HOUSINGS SERIES

Metal hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H10A-TS-M20 H10A-TS-M25	2200101540 2200100546	20 25		
Top entry 	H10A-TG-M20 H10A-TG-M25	2200101440 2200101441	20 25		
Housings, bulkhead mounting 	H10A-AG	2200100301		 Panel cut out 57.5×24mm	
Bulkhead mounting: cover 	H10A-AD	2200100321		With thermo cover 	
Surface mounting: Side entry 	H10A-SGR-M20 H10A-SGR-M25 H10A-SGR-2M20 H10A-SGR-2M25	2200100250 2200100251 2200100290 2200100291	1×20 1×25 2×20 2×25		
Surface mounting: Side entry (cover) 	H10A-SDR-M20 H10A-SDR-M25 H10A-SDR-2M20 H10A-SDR-2M25	2200100255 2200100256 2200100295 2200100296	1×20 1×25 2×20 2×25	With thermo cover 	

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H16A HOODS / HOUSINGS SERIES

Metal hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H16A-TSH-M20 H16A-TSH-M25	2200161540 2200160546	20 25		
Top entry 	H16A-TGH-M20 H16A-TGH-M25 H16A-TGH-PG21	2200161440 2200160446 2200160411	20 25 21		
Housings, bulkhead mounting 	H16A-AG	2200160301		 Panel cut out 73×24mm 	
Bulkhead mounting: cover 	H16A-AD	2200160321		With thermo cover 	
Surface mounting: Side entry 	H16A-SGR-M20 H16A-SGR-M25 H16A-SGR-2M20 H16A-SGR-2M25	2200160250 2200160251 2200160290 2200160291	1×20 1×25 2×20 2×25		
Surface mounting: Side entry (cover) 	H16A-SDR-M20 H16A-SDR-M25 H16A-SDR-2M20 H16A-SDR-2M25	2200160255 2200160256 2200160295 2200160296	1×20 1×25 2×20 2×25	With thermo cover 	


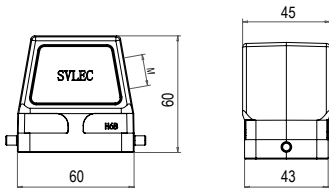

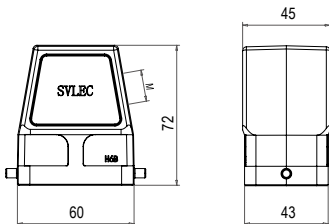

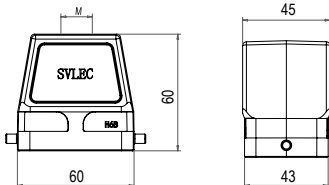

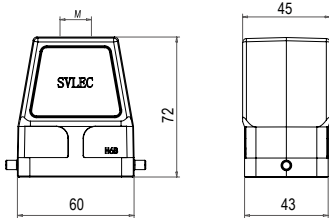

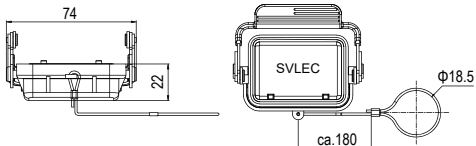
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H32A HOODS / HOUSINGS SERIES


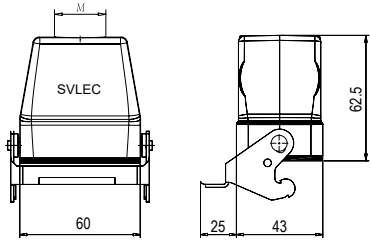

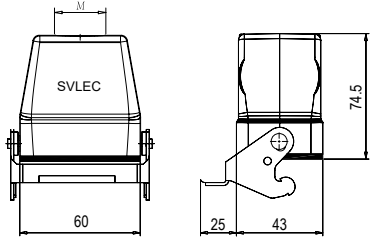

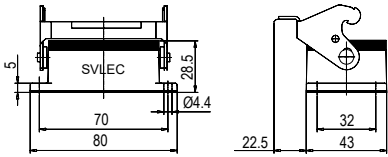

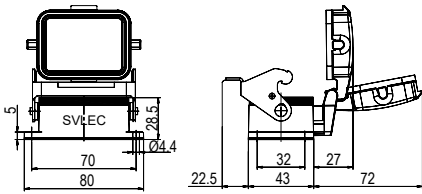
Metal hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry	H32A-TS-M25 H32A-TS-M32	2200321521 2200320527	25 32		
Top entry	H32A-TG-M25 H32A-TG-M32 H32A-TG-M40	2200320426 2200320427 2200320428	25 32 40		
Housings, bulkhead mounting	H32A-AG	2200320301			
Surface mounting: Side entry	H32A-SGR-M25 H32A-SGR-M32 H32A-SGR-2M25 H32A-SGR-2M32	2200320231 2200320232 2200320271 2200320272	1×25 1×32 2×25 2×32		Blind way one cable entry, order blind separately
	H32A-KDT	2200325401			

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H6B HOODS / HOUSINGS SERIES


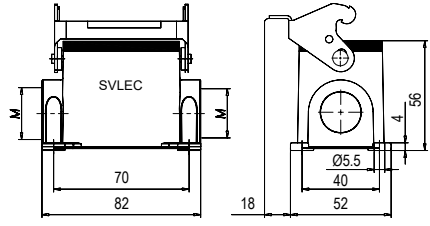

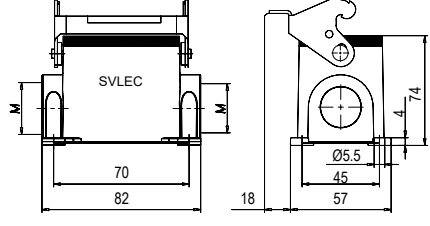

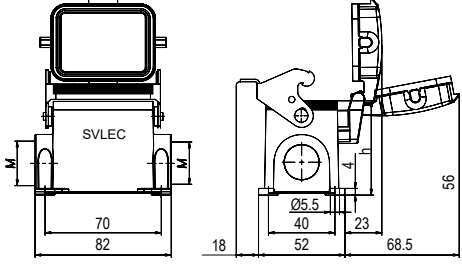

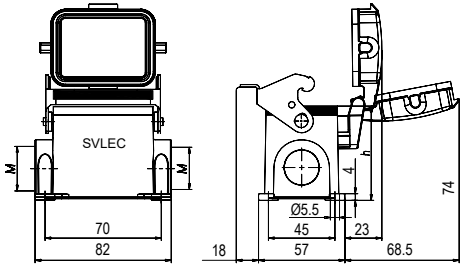

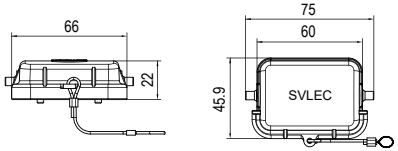
Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry					
	H6B-TS-M20 H6B-TS-M25	2300061540 2300061541	20 25		
Side entry High type					
	H6B-TSH-M25 H6B-TSH-M32	2300060545 2300060546	25 32		
Top entry					
	H6B-TG-M20 H6B-TG-M25	2300061440 2300061441	20 25		
Top entry High type					
	H6B-TGH-M25 H6B-TGH-M32	2300060445 2300060446	25 32		
Protection covers for hoods					
	H6B-KDT	2300065423			

H6B HOODS / HOUSINGS SERIES

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Cable to cable hood 	H6B-TBF-M20 H6B-TBF-M25	2300061750 2300061751	20 25		
Cable to cable hood High type 	H6B-TBFH-M32 H6B-TBFH-M40	2300060756 2300060757	32 40		
Housings, bulkhead mounting 	H6B-AG	2300060301		Panel cut out 52×35mm 	
Housings, bulkhead mounting 	H6B-AD	2300060302		With thermo cover 	


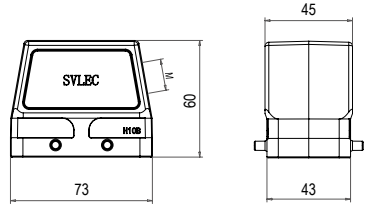

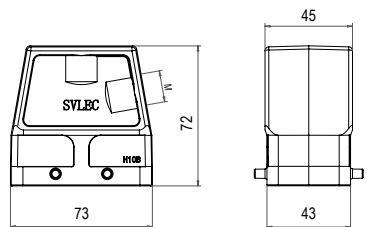

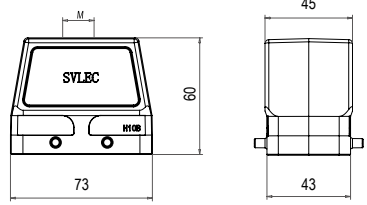

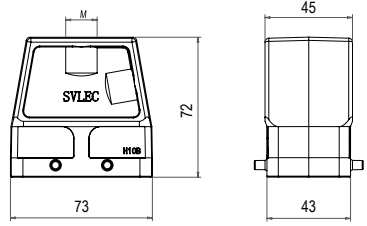

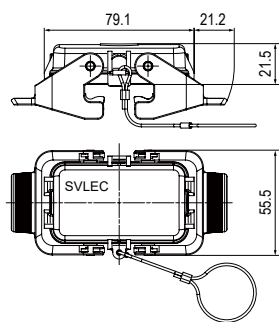
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H6B HOODS / HOUSINGS SERIES


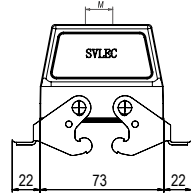
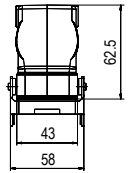

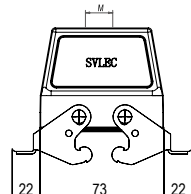
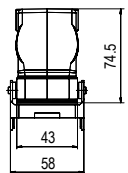

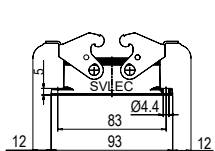
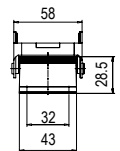

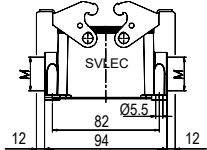
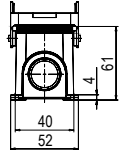

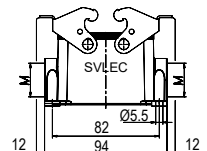
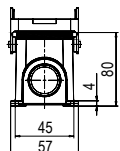

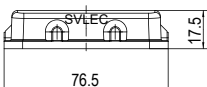
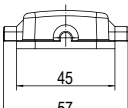
Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Surface mounting: Side entry 	H6B-SGR-M20 H6B-SGR-M25 H6B-SGR-2M20 H6B-SGR-2M25	2300061250 2300061251 2300061290 2300061291	1×20 1×25 2×20 2×25		
Surface mounting: Side entry High type 	H6B-SGRH-M32 H6B-SGRH-2M32	2300061226 2300060292	1×32 2×32		
Surface mounting: Side entry (cover) 	H6B-SDR-M20 H6B-SDR-M25 H6B-SDR-2M20	2300061255 2300061256 2300061295	1×20 1×25 2×20	With thermo cover 	
Surface mounting: Side entry (cover) High type 	H6B-SDRH-M32	2300060297	1×32	With thermo cover 	
Protection covers for housings 	H6B-KDB	2300065427			

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H10B WITH 2 LEVERS ON THE HOODS/HOUSINGS


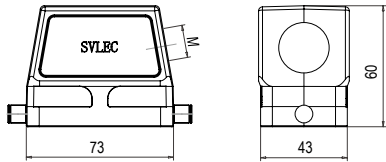

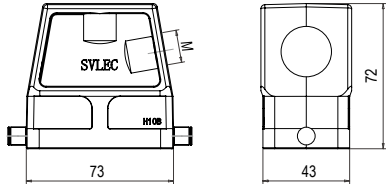

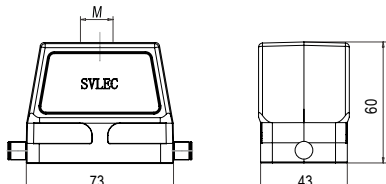

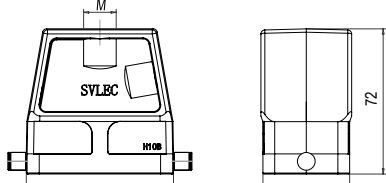

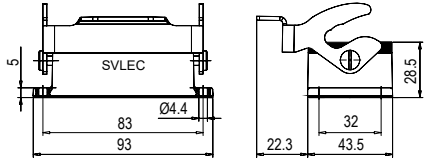

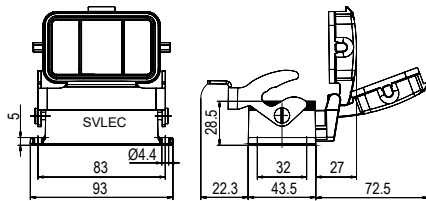
Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H10B-TS-M20 H10B-TS-M25	2300101520 2300101521	20 25		
Side entry High type 	H10B-TSH-M25 H10B-TSH-M32 H10B-TSH-M40	2300100526 2300100527 2300100528	25 32 40		
Top entry 	H10B-TG-M20 H10B-TG-M25	2300101420 2300101421	20 25		
Top entry high type 	H10B-TGH-M25 H10B-TGH-M32 H10B-TGH-M40	2300100426 2300100427 2300100428	25 32 40		
Protection covers for hoods 	H10B-KDT	2300105422			

H10B WITH 2 LEVERS ON THE HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Cable to cable hood 	H10B-TBF-M20 H10B-TBF-M25	2300101730 2300101731	1×20 1×25		
Cable to cable hood High Type 	H10B-TBFH-M25 H10B-TBFH-M32 H10B-TBFH-M40	2300100736 2300100737 2300100738	1×25 1×32 1×40		
Housings, bulkhead mounting 	H10B-AG	2300100301		Panel cut out 65×35mm 	
Surface mounting: Side entry 	H10B-SGR-M20 H10B-SGR-M25 H10B-SGR-2M20 H10B-SGR-2M25	2300101230 2300101231 2300101270 2300101271	1×20 1×25 2×20 2×25		 <p>Blind way one cable entry, order blind separately</p>
Surface mounting: Side entry High Type 	H10B-SGRH-M32 H10B-SGRH-2M32	2300100232 2300100272	1×32 2×32		 <p>Blind way one cable entry, order blind separately</p>
Protection covers for housings 	H10B-KDB	2300105407			


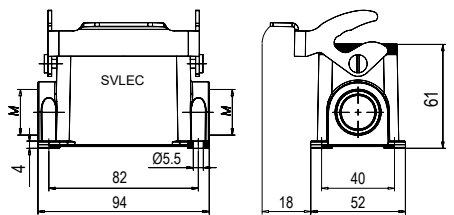

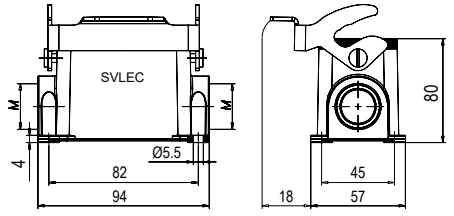

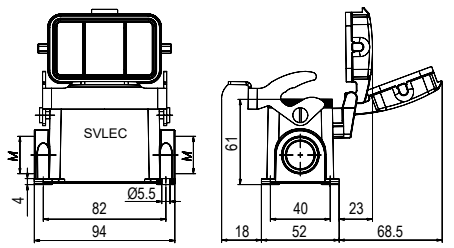

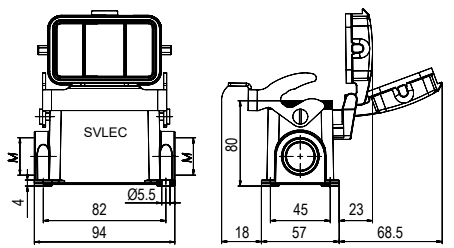
Protection Degree: IP65, include metal and plastic shells Levers include metal, plastic and stainless steel, Refer to page B8.5.2 for a drawing of the opening dimensions.

H10B WITH 1 LEVERS ON THE HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H10B-TS-RO-M20 H10B-TS-RO-M25	2300101540 2300101541	20 25		
Side entry High Type 	H10B-TSH-RO-M25 H10B-TSH-RO-M32 H10B-TSH-RO-M40	2300100546 2300100547 2300100548	25 32 40		
Top entry 	H10B-TG-RO-M20 H10B-TG-RO-M25	2300101440 2300101441	20 25		
Top entry high type 	H10B-TGH-RO-M25 H10B-TGH-RO-M32 H10B-TGH-RO-M40	2300100446 2300100447 2300100448	25 32 40		
Housings, bulkhead mounting 	H10B-AG-LB	2300100305		Panel cut out 65×35mm 	
Housings, bulkhead mounting cover 	H10B-AD-LB	2300100303		With thermo cover 	


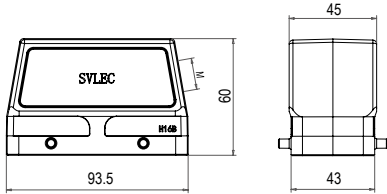

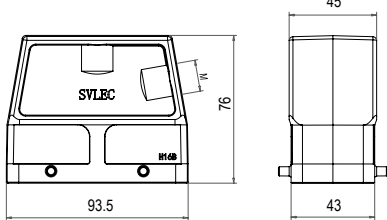

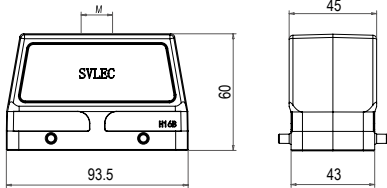

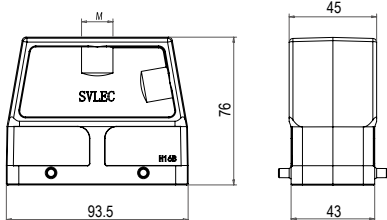

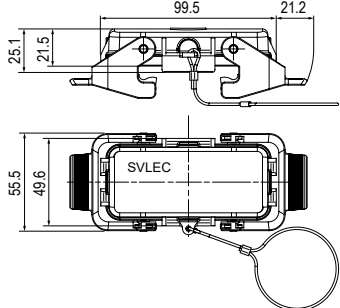
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H10B WITH 1 LEVERS ON THE HOODS/HOUSINGS


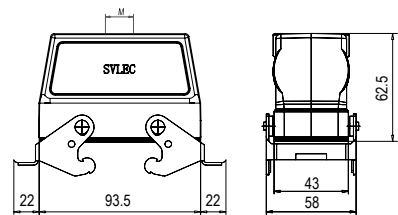

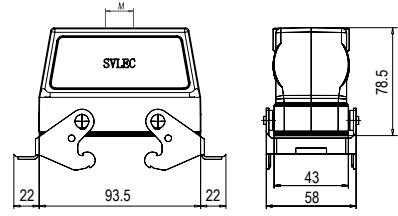

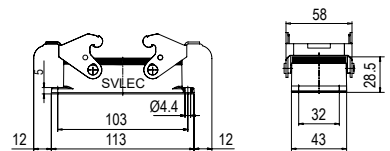

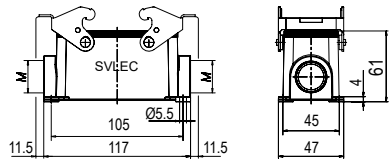

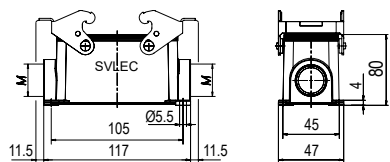

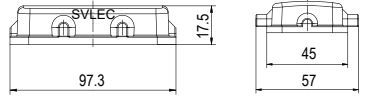
Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Surface mounting: Side entry 	H10B-SGR-LB-M20 H10B-SGR-LB-M25 H10B-SGR-LB-2M20 H10B-SGR-LB-2M25	2300101250 2300101251 2300101290 2300101291	1×20 1×25 2×20 2×25		61 40 18 52 82 94 Ø5.5
Surface mounting: Side entry High type 	H10B-SGRH-LB-M32 H10B-SGRH-LB-2M32	2300100252 2300100292	1×32 2×32		80 45 18 57 82 94 Ø5.5
Surface mounting: Side entry cover 	H10B-SDR-LB-M20 H10B-SDR-LB-M25 H10B-SDR-LB-2M20	2300101255 2300101256 2300101295	1×20 1×25 2×20	With thermo cover 	61 40 23 18 52 68.5 82 94 Ø5.5
Surface mounting: Side entry cover High type 	H10B-SDRH-LB-M32 H10B-SDRH-LB-2M32	2300100297 2300101297	1×32 2×32	With thermo cover 	80 45 23 18 57 68.5 82 94 Ø5.5

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H16B WITH 2 LEVERS ON THE HOODS/HOUSINGS


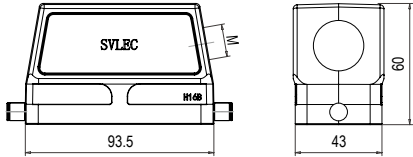

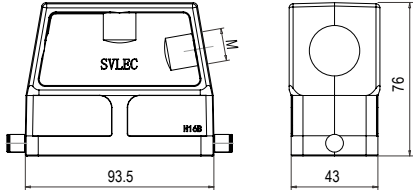

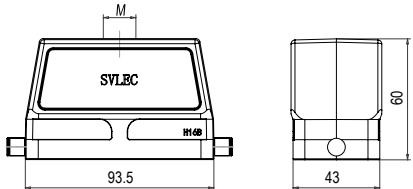

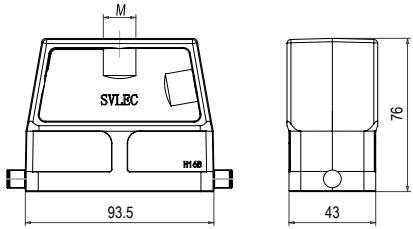

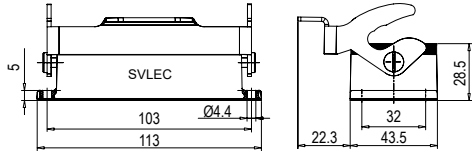

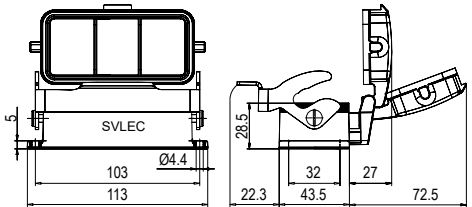
Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H16B-TS-M25 H16B-TS-M32	2300161521 2300161522	25 32		
Side entry High type 	H16B-TSH-M25 H16B-TSH-M32 H16B-TSH-M40	2300160526 2300160527 2300160528	25 32 40		
Top entry 	H16B-TG-M25 H16B-TG-M32	2300161421 2300161422	25 32		
Top entry High type 	H16B-TGH-M25 H16B-TGH-M32 H16B-TGH-M40	2300160426 2300160427 2300160428	25 32 40		
Protection covers for hoods 	H16B-KDT	2300165422			

H16B WITH 2 LEVERS ON THE HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Cable to cable hood 	H16B-TBF-M25 H16B-TBF-M32	2300161731 2300161732	25 32		62.5 43 58
Cable to cable hood High Type 	H16B-TBFH-M25 H16B-TBFH-M32 H16B-TBFH-M40	2300160736 2300160737 2300160738	25 32 40		76.5 43 58
Housings, bulkhead mounting 	H16B-AG	2300160301		Panel cut out 85×35mm 	58 28.5 32 43
Surface mounting: Side entry 	H16B-SGR-M25 H16B-SGR-2M25	2300161231 2300161271	1×25 2×25		61 4 45 47
Surface mounting: Side entry High Type 	H16B-SGRH-M32 H16B-SGRH-2M32	2300160232 2300160272	1×32 2×32		80 4 45 47
Protection covers for housings 	H16B-KDB	2300165407			17.5 45 57


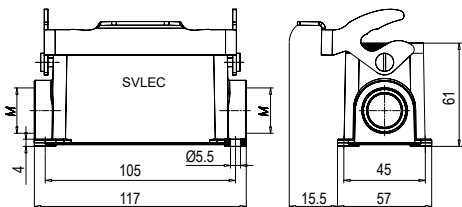

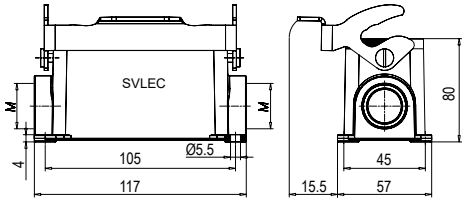

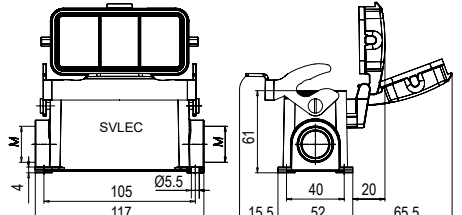

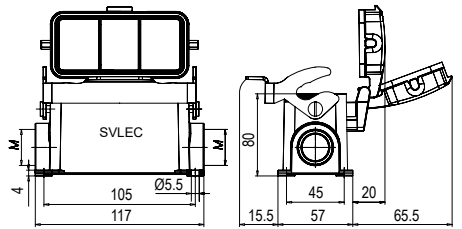
Protection Degree: IP65, include metal and plastic shells Levers include metal, plastic and stainless steel, Refer to page B8.5.2 for a drawing of the opening dimensions.

H16B WITH 1 LEVERS ON THE HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H16B-TS-RO-M25 H16B-TS-RO-M32	2300161541 2300161542	25 32		
Side entry High Type 	H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40	2300160546 2300160547 2300160548	25 32 40		
Top entry 	H16B-TG-RO-M25 H16B-TG-RO-M32	2300161441 2300161442	25 32		
Top entry High Type 	H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	2300160446 2300160447 2300160448	25 32 40		
Housings, bulkhead mounting 	H16B-AG-LB	2300160307		Panel cut out 85×35mm 	
Housings, bulkhead mounting cover 	H16B-AD-LB	2300160306		With thermo cover 	


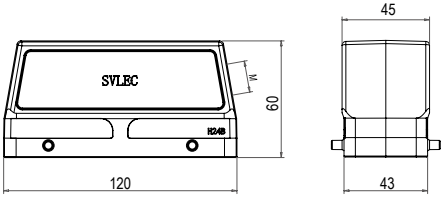

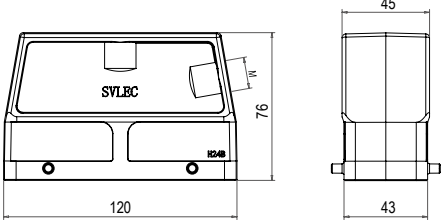

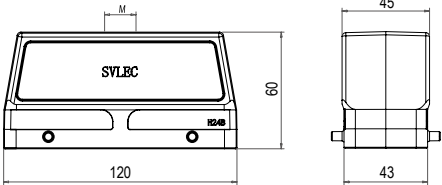

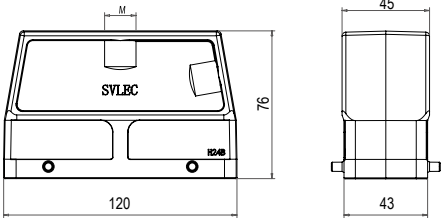

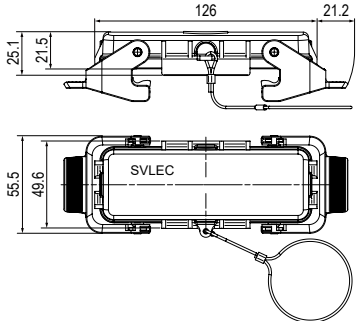
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H16B WITH 1 LEVERS ON THE HOODS/HOUSINGS


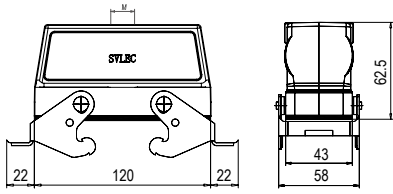

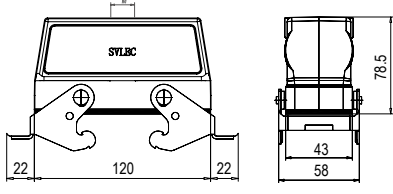

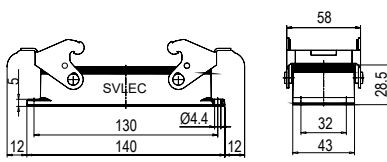

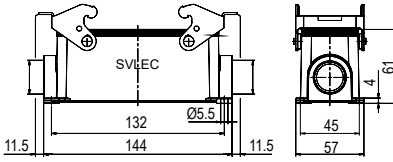

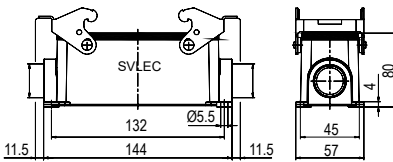

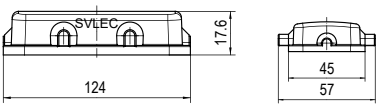
Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Surface mounting: Side entry 	H16B-SGR-LB-M25 H16B-SGR-LB-2M25	2300161251 2300161291	1×25 2×25		61 45 57 105 117 Ø5.5
Surface mounting: Side entry High Type 	H16B-SGRH-LB-M32 H16B-SGRH-LB-2M32	2300160252 2300160292	1×32 2×32		80 45 57 105 117 Ø5.5
Surface mounting: Side entry cover 	H16B-SDR-LB-M25 H16B-SDR-LB-2M25	2300161256 2300161296	1×25 2×25	With thermo cover 	61 40 20 52 65.5 105 117 Ø5.5
Surface mounting: Side entry cover High Type 	H16B-SDRH-LB-M32 H16B-SDRH-LB-2M32	2300160297 2300161297	1×32 2×32	With thermo cover 	80 45 20 57 65.5 105 117 Ø5.5

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H24B WITH 2 LEVERS ON THE HOODS/HOUSINGS


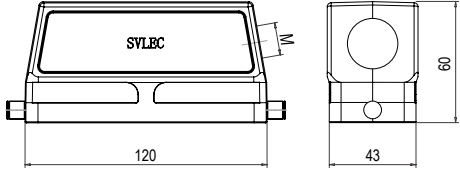

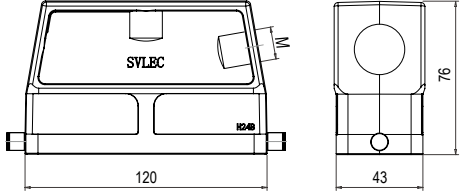

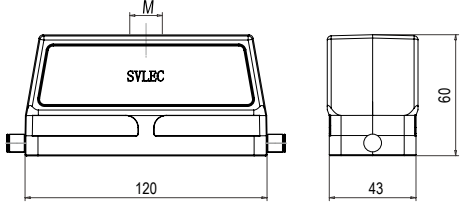

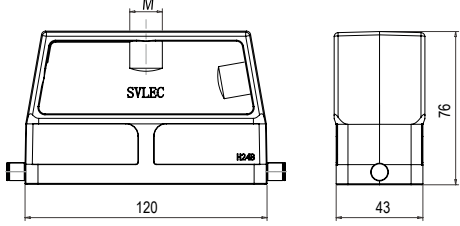

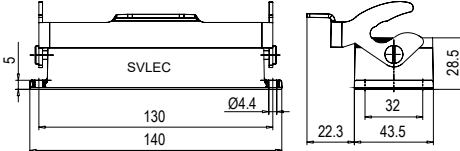

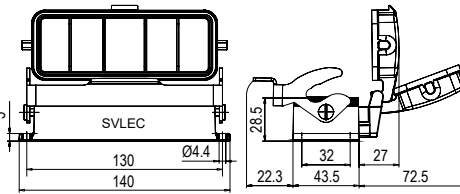
Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H24B-TS-M25 H24B-TS-M32	2300241521 2300241522	25 32		
Side entry High Type 	H24B-TSH-M25 H24B-TSH-M32 H24B-TSH-M40	2300240526 2300240527 2300240528	25 32 40		
Top entry 	H24B-TG-M25 H24B-TG-M32	2300241421 2300241422	25 32		
Top entry High Type 	H24B-TGH-M25 H24B-TGH-M32 H24B-TGH-M40	2300240426 2300240427 2300240428	25 32 40		
Protection covers for hoods 	H24B-KDT	2300245422			

H24B WITH 2 LEVERS ON THE HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Cable to cable hood 	H24B-TBF-M25 H24B-TBF-M32	2300241731 2300241732	25 32		
Cable to cable hood High Type 	H24B-TBFH-M25 H24B-TBFH-M32 H24B-TBFH-M40	2300240736 2300240737 2300240738	25 32 40		
Housings, bulkhead mounting 	H24B-AG	2300240301		Panel cut out 112×35mm 	
Surface mounting: Side entry High Type 	H24B-SGR-M25 H24B-SGR-2M25	2300241231 2300241271	1×25 2×25		Blind way one cable entry, order blind separately
Surface mounting: Side entry 	H24B-SGRH-M32 H24B-SGRH-2M32	2300240232 2300240272	1×32 2×32		Blind way one cable entry, order blind separately
Protection covers for housings 	H24B-KDB	2300245407			


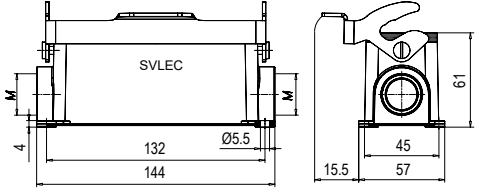

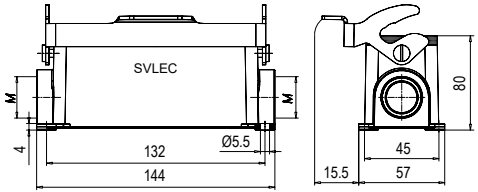

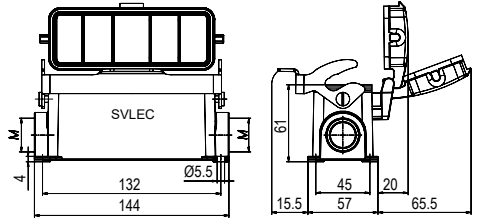

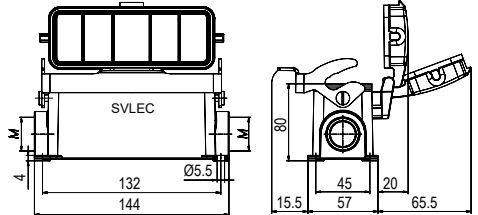
Protection Degree: IP65, include metal and plastic shells Levers include metal, plastic and stainless steel, Refer to page B8.5.2 for a drawing of the opening dimensions.

H24B WITH 1 LEVER ON THE HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H24B-TS-RO-M25 H24B-TS-RO-M32	2300241541 2300241542	25 32		
Side entry High type 	H24B-TSH-RO-M25 H24B-TSH-RO-M32 H24B-TSH-RO-M40	2300240546 2300240547 2300240548	25 32 40		
Top entry 	H24B-TG-RO-M25 H24B-TG-RO-M32	2300241441 2300241442	25 32		
High Type Top entry 	H24B-TGH-RO-M25 H24B-TGH-RO-M32 H24B-TGH-RO-M40	2300240446 2300240447 2300240448	25 32 40		
Housings, bulkhead mounting 	H24B-AG-LB	2300240307		Panel cut out 112×35mm 	
Housings, bulkhead mounting cover 	H24B-AD-LB	2300240306		With thermo cover 	


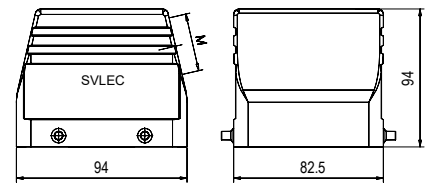

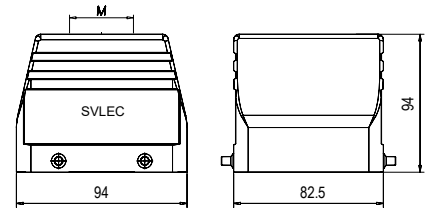

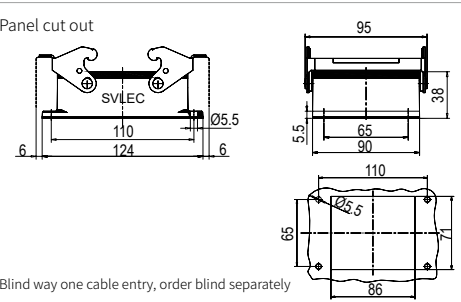

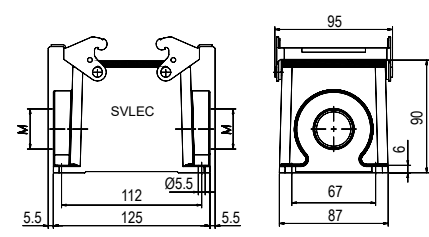

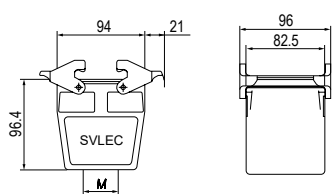
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H24B WITH 1 LEVERS ON THE HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Surface mounting: Side entry 	H24B-SGR-LB-M25 H24B-SGR-LB-2M25	2300241251 2300241291	1×25 2×25		
Surface mounting: Side entry High Type 	H24B-SGRH-LB-M32 H24B-SGRH-LB-2M32	2300240252 2300240292	1×32 2×32		
Surface mounting: Side entry cover 	H24B-SDR-LB-M25 H24B-SDR-LB-2M25	2300240295 2300241296	1×25 2×25	With thermo cover 	Blind way one cable entry, order blind separately
Surface mounting: Side entry cover High Type 	H24B-SDRH-LB-M32 H24B-SDRH-LB-2M32	2300240296 2300240297	1×32 2×32	With thermo cover 	Blind way one cable entry, order blind separately


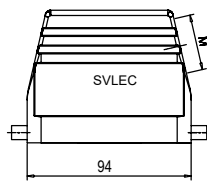
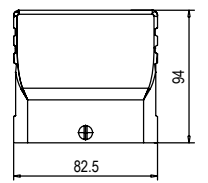

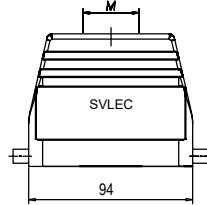
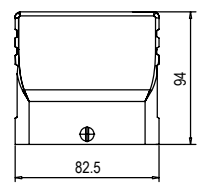

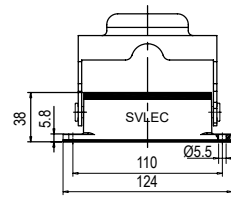
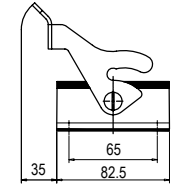

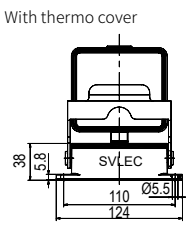
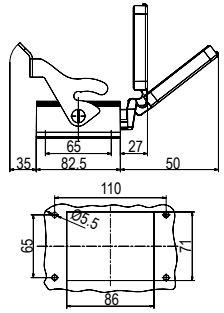

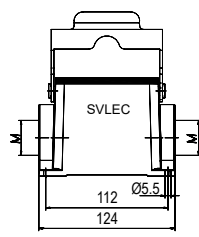
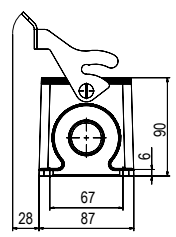

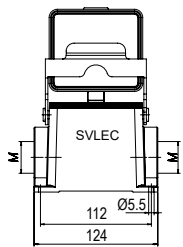
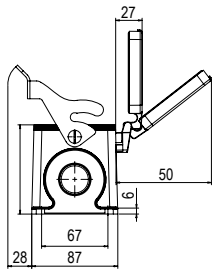
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H32B WITH 2 LEVERS ON THE HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Double levers Side entry 	H32B-TS-M32 H32B-TS-M40 H32B-TS-M50	2300320527 2300320528 2300320529	32 40 50		
Double levers Top entry 	H32B-TG-M32 H32B-TG-M40 H32B-TG-M50	2300320427 2300320428 2300320429	32 40 50		
Double levers bulkhead mounted: bottom entry 	H32B-AG	2300320301		 <p>Blind way one cable entry, order blind separately</p>	
Double levers surface mounted: side entry 	H32B-SGR-M32 H32B-SGR-M40 H32B-SGR-2M32 H32B-SGR-2M40	2300320232 2300320242 2300320272 2300320273	1×32 1×40 2×32 2×40	 <p>Blind way one cable entry, order blind separately</p>	
Double levers cable to cable hood 	H32B-TBF-M32 H32B-TBF-M40 H32B-TBF-M50	2300320737 2300320738 2300320739	32 40 50		


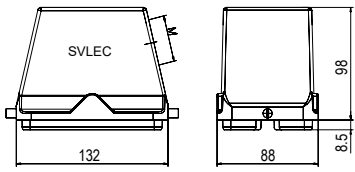

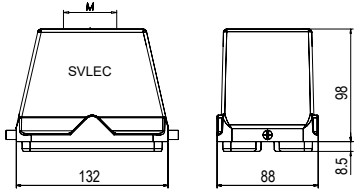

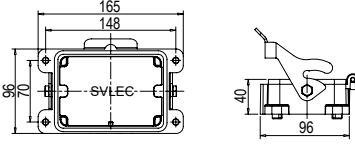

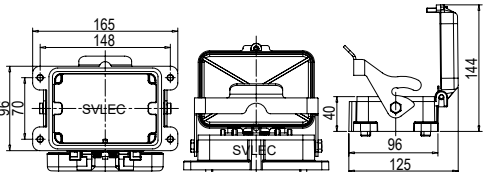

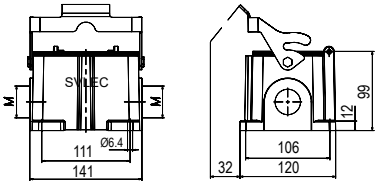

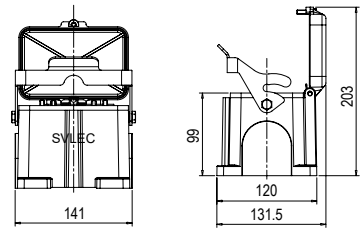
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H32B WITH 2 LEVERS ON THE HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Single levers side entry 	H32B-TS-RO-M32 H32B-TS-RO-M40 H32B-TS-RO-M50	2300320547 2300320548 2300320549	32 40 50		
Single levers top entry 	H32B-TG-RO-M32 H32B-TG-RO-M40 H32B-TG-RO-M50 H32B-TG-RO-M63	2300320447 2300320448 2300320449 2300320450	32 40 50 63		
Single levers bulkhead mounted: bottom entry 	H32B-AG-LB	2300320307			
Single levers bulkhead mounted: bottom entry cover 	H32B-AD-LB	2300320304		With thermo cover 	
Single levers surface mounted: side entry 	H32B-SGR-LB-M32 H32B-SGR-LB-M40 H32B-SGR-LB-2M32 H32B-SGR-LB-2M40	2300321252 2300321253 2300321291 2300321292	1×32 1×40 2×32 2×40		
Single levers surface mounted: side entry cover 	H32B-SDR-LB-M32 H32B-SDR-LB-M40 H32B-SDR-LB-2M32 H32B-SDR-LB-2M40	2300321255 2300321256 2300321295 2300321296	1×32 1×40 2×32 2×40	With thermo cover 	


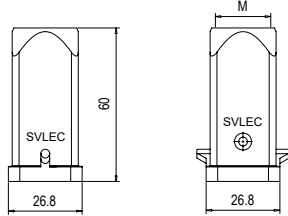

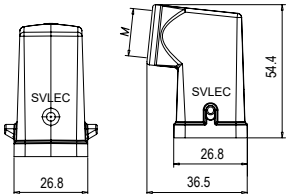

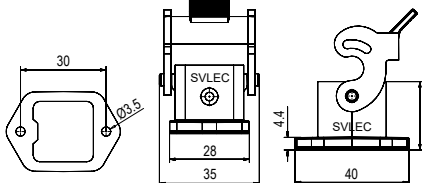

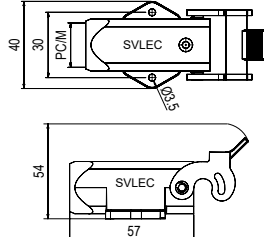

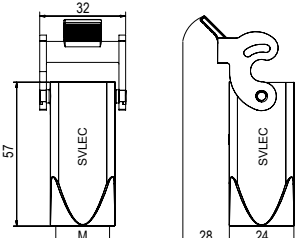

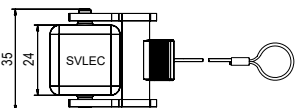

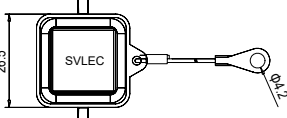

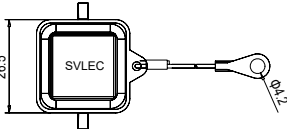
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H48B HOODS/HOUSINGS

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H48B-TS-M32 H48B-TS-M40 H48B-TS-M50	2300480547 2300480548 2300480549	32 40 50		
Top entry 	H48B-TG-M32 H48B-TG-M40 H48B-TG-M50 H48B-TG-M63	2300480447 2300480448 2300480449 2300480450	32 40 50 63		
Housings, bulkhead mounting 	H48B-AG	2300480301		Panel cut out 	
Housings, bulkhead mounting cover 	H48B-AD	2300480317		Panel cut out 	
Surface mounting: Side entry 	H48B-SGR-M32 H48B-SGR-M40 H48B-SGR-2M32 H48B-SGR-2M40	2300480292 2300480293 2300481292 2300481293	1×32 1×40 2×32 2×40		
Surface mounting: Side entry cover 	H48B-SDR-M32 H48B-SDR-M40 H48B-SDR-2M32 H48B-SDR-2M40	2300480297 2300480298 2300482297 2300482298	1×32 1×40 2×32 2×40	 Blind way	

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H3A HOODS / HOUSINGS

Thermoplastic hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Top entry 	H3AP-TG-M20	2201030420	20		
Side entry 	H3AP-TS-M20	2201030620	20		
Bulkhead mounting: Bottom entry 	H3AP-AG	2201030320			
Surface mounting: Side entry 	H3AP-AGSV-M20	2201030220	20		
Cable to cable hood 	H3AP-TGVB-M20	2201030720	20		
Protection covers for hoods 	H3AP-KDT	2201035422			
Protection covers for housings 	H3AP-KDT-T	2201035446			
Protection covers for housings 	H3AP-KDB	2201035447			

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H8A HOODS / HOUSINGS


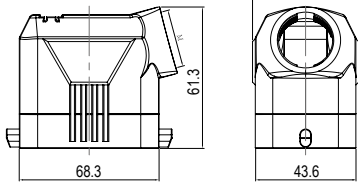

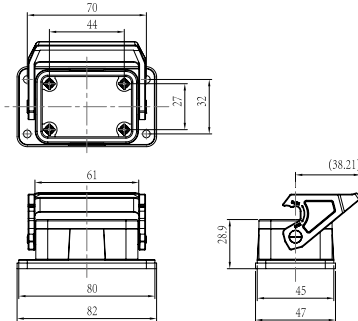

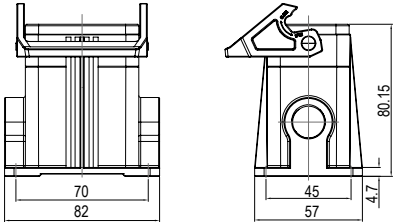

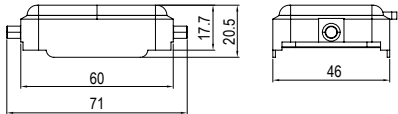
Protection Degree: IP65

Plastic hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
<p>Side entry</p> 	H8A-TS-M25	2120080501	25		
<p>Top entry</p> 	H8A-TG-M25	2120080429	25		
<p>Housings, bulkhead mounting</p> 	H8A-AG	2120080327			
<p>Tighten the pieces</p> 	SVL-25	2120005157	25		

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H6B HOODS / HOUSINGS

Protection Degree: IP65

Plastic hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
<p>Side entry</p> 	<p>H6BP-TS-M20 H6BP-TS-M25</p>	<p>2301061540 2301061541</p>	<p>20 25</p>		
<p>Housings, bulkhead mounting</p> 	<p>H6BP-AG</p>	<p>2301060301</p>			
<p>Surface mounting: Side entry</p> 	<p>H6BP-SGRH-M20 H6BP-SGRH-M25</p>	<p>2301061250 2301061251</p>	<p>20 25</p>		
<p>Protection covers for housings</p> 	<p>H6BP-KDB</p>	<p>2301065427</p>			


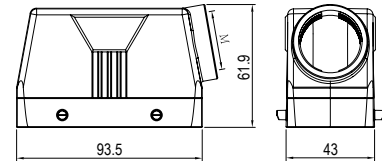

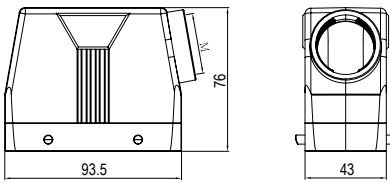

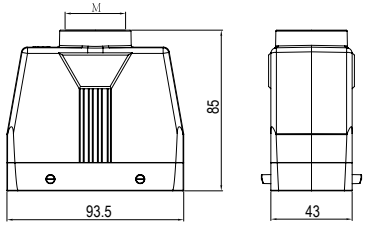

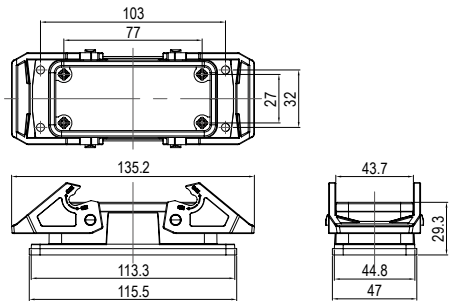

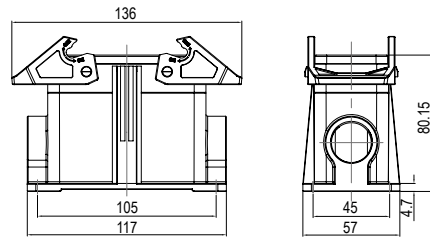

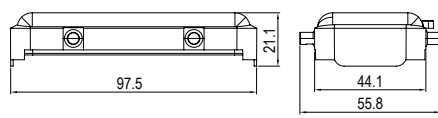
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H10B HOODS / HOUSINGS

Plastic hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H10BP-TS-M20 H10BP-TS-M25	2301101520 2301101521	20 25		
Side entry High Type 	H10BP-TSH-M25 H10BP-TSH-M32	2301100526 2301100527	25 32		
Top entry High Type 	H10BP-TGH-M25 H10BP-TGH-M32	2301100426 2301100427	25 32		
Housings, bulkhead mounting 	H10BP-AG	2301100301			
Surface mounting: Side entry High Type 	H10BP-SGRH-M20 H10BP-SGRH-M25	2301101230 2301101231	20 25		
Protection covers for housings 	H10BP-KDB	2301105407			


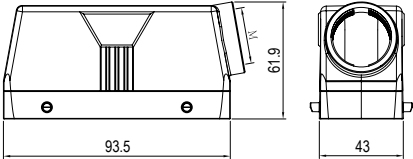

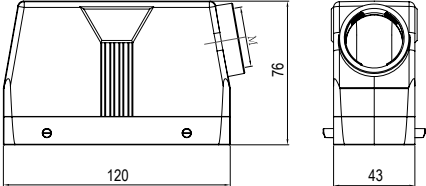

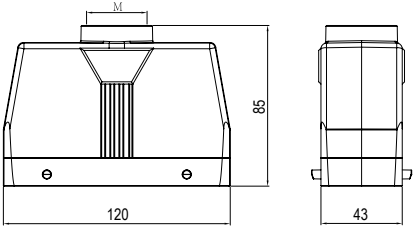

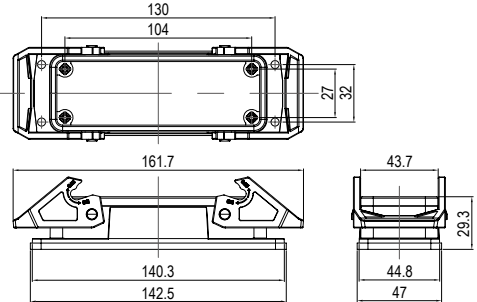

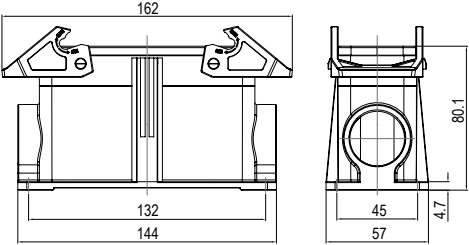

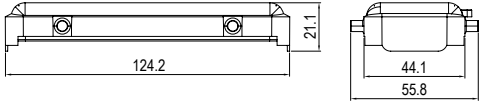
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H16B HOODS / HOUSINGS

Plastic hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry					
	H16BP-TS-M25 H16BP-TS-M32	2301161521 2301161522	25 32		
Side entry High Type					
	H16BP-TSH-M25 H16BP-TSH-M32	2301160526 2301160527	25 32		
Top entry High Type					
	H16BP-TGH-M25 H16BP-TGH-M32	2301160426 2301160427	25 32		
Housings, bulkhead mounting					
	H16BP-AG	2301160301			
Surface mounting: Side entry High Type					
	H16BP-SGRH-M25 H16BP-SGRH-M32	2301161231 2301160232	25 32		
Protection covers for housings					
	H16BP-KDB	2301165407			


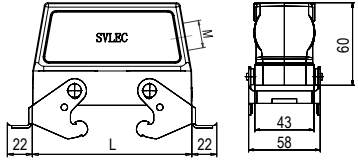

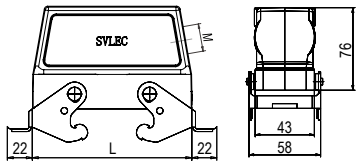

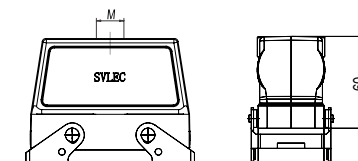

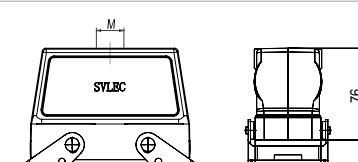

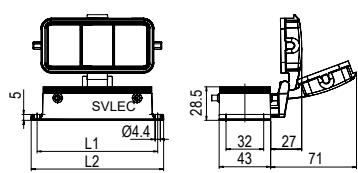

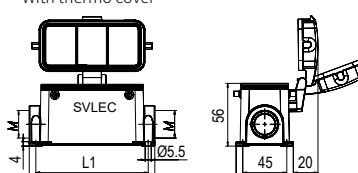

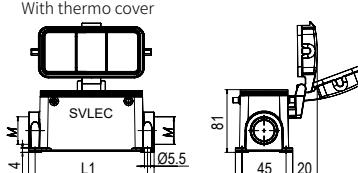
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

H24B HOODS / HOUSINGS

Plastic hoods/housings	Type	Part No.	Metr.	Drawing	Dimensions in mm
Side entry 	H24BP-TS-M25 H24BP-TS-M32	2301241521 2301241522	25 32		
Side entry High Type 	H24BP-TSH-M25 H24BP-TSH-M32	2301240526 2301240527	25 32		
Top entry High Type 	H24BP-TGH-M25 H24BP-TGH-M32	2301240426 2301240427	25 32		
Housings, bulkhead mounting 	H24BP-AG	2301240301			
Surface mounting: Side entry High Type 	H24BP-SGRH-M25 H24BP-SGRH-M32	2301241231 2301240232	25 32		
	H24BP-KDB	2301245407			

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.


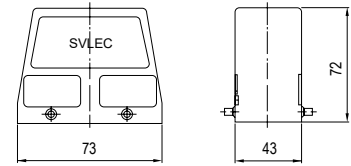
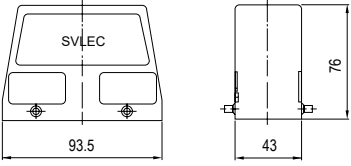
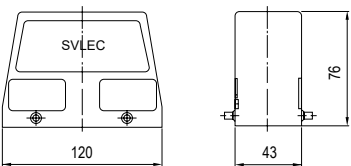
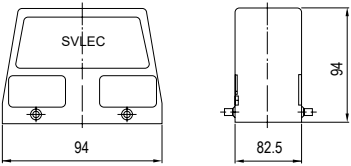
SPECIAL HOODS SERIES

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm												
Side entry hoods with two levers 	H10B-TSB-M20	2300101530	20		<table border="1"> <thead> <tr> <th>SIZE</th> <th>L(mm)</th> </tr> </thead> <tbody> <tr> <td>H10B</td> <td>82</td> </tr> <tr> <td>H16B</td> <td>93.5</td> </tr> <tr> <td>H24B</td> <td>120</td> </tr> </tbody> </table>	SIZE	L(mm)	H10B	82	H16B	93.5	H24B	120				
	SIZE	L(mm)															
	H10B	82															
	H16B	93.5															
	H24B	120															
	H10B-TSB-M25	2300101531	25														
	H16B-TSB-M25	2300161531	25														
H16B-TSB-M32	2300161532	32															
H24B-TSB-M25	2300241531	25															
H24B-TSB-M32	2300241532	32															
Side entry hoods with two levers 	H10B-TSBH-M25	2300100536	25		<table border="1"> <thead> <tr> <th>SIZE</th> <th>L(mm)</th> </tr> </thead> <tbody> <tr> <td>H10B</td> <td>82</td> </tr> <tr> <td>H16B</td> <td>93.5</td> </tr> <tr> <td>H24B</td> <td>120</td> </tr> </tbody> </table>	SIZE	L(mm)	H10B	82	H16B	93.5	H24B	120				
	SIZE	L(mm)															
	H10B	82															
	H16B	93.5															
	H24B	120															
	H10B-TSBH-M32	2300100537	32														
	H10B-TSBH-M40	2300100538	40														
	H16B-TSBH-M25	2300160536	25														
	H16B-TSBH-M32	2300160537	32														
H16B-TSBH-M40	2300160538	40															
H24B-TSBH-M25	2300240536	25															
H24B-TSBH-M32	2300240537	32															
H24B-TSBH-M40	2300240538	40															
Top entry hoods with two levers 	H10B-TGB-M20	2300101430	20		<table border="1"> <thead> <tr> <th>SIZE</th> <th>L(mm)</th> </tr> </thead> <tbody> <tr> <td>H10B</td> <td>82</td> </tr> <tr> <td>H16B</td> <td>93.5</td> </tr> <tr> <td>H24B</td> <td>120</td> </tr> </tbody> </table>	SIZE	L(mm)	H10B	82	H16B	93.5	H24B	120				
	SIZE	L(mm)															
	H10B	82															
	H16B	93.5															
	H24B	120															
	H10B-TGB-M25	2300101431	25														
	H16B-TGB-M25	2300161431	25														
H16B-TGB-M32	2300161432	32															
H24B-TGB-M25	2300241431	25															
H24B-TGB-M32	2300241432	32															
Top entry hoods with two levers 	H10B-TGBH-M25	2300100436	25		<table border="1"> <thead> <tr> <th>SIZE</th> <th>L(mm)</th> </tr> </thead> <tbody> <tr> <td>H10B</td> <td>82</td> </tr> <tr> <td>H16B</td> <td>93.5</td> </tr> <tr> <td>H24B</td> <td>120</td> </tr> </tbody> </table>	SIZE	L(mm)	H10B	82	H16B	93.5	H24B	120				
	SIZE	L(mm)															
	H10B	82															
	H16B	93.5															
	H24B	120															
	H10B-TGBH-M32	2300100437	32														
	H10B-TGBH-M40	2300100438	40														
	H16B-TGBH-M25	2300160436	25														
	H16B-TGBH-M32	2300160437	32														
H16B-TGBH-M40	2300160438	40															
H24B-TGBH-M25	2300240436	25															
H24B-TGBH-M32	2300240437	32															
H24B-TGBH-M40	2300240438	40															
Bulkhead mounting with 4 bolts 	H10B-AD-BO	2300100302		With thermo cover 	<table border="1"> <thead> <tr> <th>SIZE</th> <th>L1 (mm)</th> <th>L2 (mm)</th> </tr> </thead> <tbody> <tr> <td>H10B</td> <td>83</td> <td>93</td> </tr> <tr> <td>H16B</td> <td>103</td> <td>113</td> </tr> <tr> <td>H24B</td> <td>130</td> <td>140</td> </tr> </tbody> </table>	SIZE	L1 (mm)	L2 (mm)	H10B	83	93	H16B	103	113	H24B	130	140
	SIZE	L1 (mm)				L2 (mm)											
	H10B	83				93											
	H16B	103				113											
H24B	130	140															
H16B-AD-BO	2300160302																
H24B-AD-BO	2300240302																
Surface mounting with 4 bolts 	H10B-SDR-BO-M20	2300101225	1×20	With thermo cover 	<table border="1"> <thead> <tr> <th>SIZE</th> <th>L1 (mm)</th> <th>L2 (mm)</th> </tr> </thead> <tbody> <tr> <td>H10B</td> <td>82</td> <td>94</td> </tr> <tr> <td>H16B</td> <td>105</td> <td>117</td> </tr> <tr> <td>H24B</td> <td>132</td> <td>144</td> </tr> </tbody> </table>	SIZE	L1 (mm)	L2 (mm)	H10B	82	94	H16B	105	117	H24B	132	144
	SIZE	L1 (mm)	L2 (mm)														
	H10B	82	94														
	H16B	105	117														
	H24B	132	144														
	H10B-SDR-BO-M25	2300101226	1×25														
	H10B-SDR-BO-2M20	2300101265	2×20														
	H10B-SDR-BO-2M25	2300101266	2×25														
	H16B-SDR-BO-M25	2300161226	1×25														
	H16B-SDR-BO-2M25	2300162226	2×25														
H24B-SDR-BO-M25	2300241226	1×25															
H24B-SDR-BO-2M25	2300241266	2×25															
Surface mounting with 4 bolts 	H10B-SDRH-BO-M32	2300100227	1×32	With thermo cover 	<table border="1"> <thead> <tr> <th>SIZE</th> <th>L1 (mm)</th> <th>L2 (mm)</th> </tr> </thead> <tbody> <tr> <td>H10B</td> <td>82</td> <td>94</td> </tr> <tr> <td>H16B</td> <td>105</td> <td>117</td> </tr> <tr> <td>H24B</td> <td>132</td> <td>144</td> </tr> </tbody> </table>	SIZE	L1 (mm)	L2 (mm)	H10B	82	94	H16B	105	117	H24B	132	144
	SIZE	L1 (mm)	L2 (mm)														
	H10B	82	94														
	H16B	105	117														
	H24B	132	144														
	H10B-SDRH-BO-2M32	2300100267	2×32														
	H16B-SDRH-BO-M32	2300161225	1×32														
H16B-SDRH-BO-2M25	2300162225	2×25															
H24B-SDRH-BO-M32	2300240267	1×32															
H24B-SDRH-BO-2M32	2300242267	2×32															


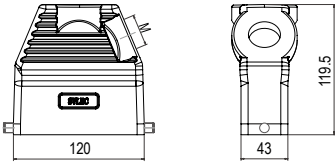
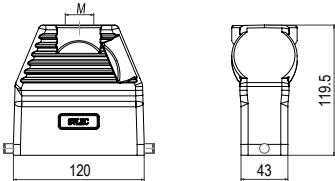

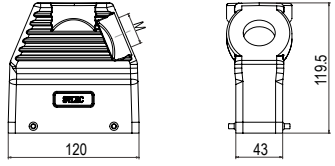
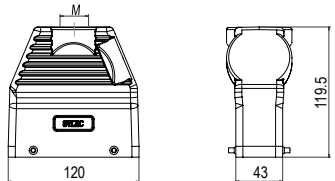
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

SPECIAL HOODS SERIES

(IP65) For special purposes (location and number of openings are optional)


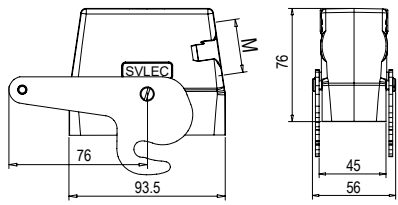
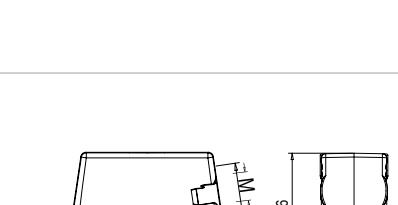
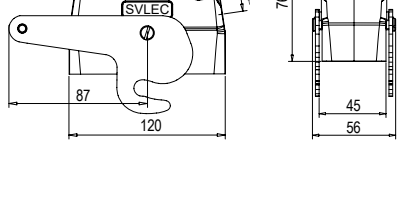
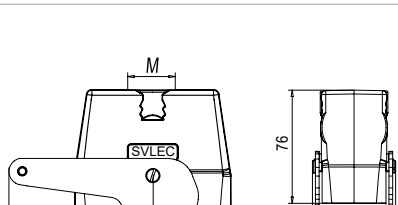

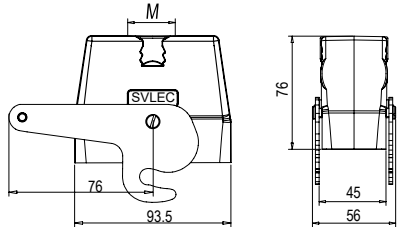
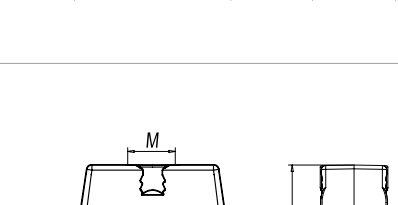
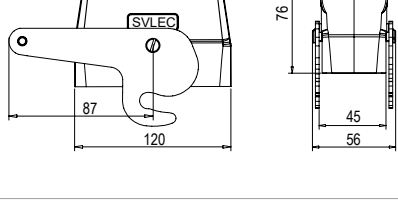
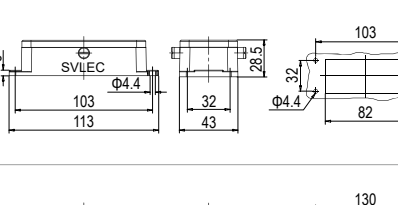

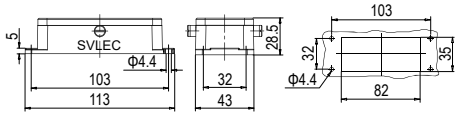
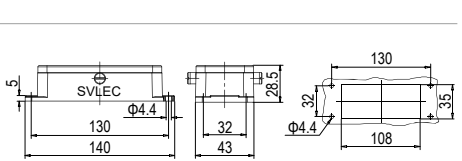
Identification	Size	Type	Part No.	Metr.	Drawing	Dimensions in mm
Hoods top entry 	H10B	H10B-TGH-2M20	2300100465	2×20		
	H16B H16B	H16B-TGH-2M25 H16B-TGH-M20/32	2300160466 2300160566	2×25 20+32		
	H24B H24B H24B	H24B-TGH-2M25 H24B-TGH-2M32 H24B-TGH-M25/32	2300240466 2300240467 2300240567	2×25 2×32 25+32		
	H32B	H32B-TGH-2M32	2300320467	2×32		

For special purposes (location and number of openings are optional)

Identification	Size	Type	Part No.	Metr.	Drawing	Dimensions in mm
Top Housing with 2 levers Hoods 	Side H24B	H24B-THS-RO-M50	2300240568	1×50		
	Top H24B	H24B-THG-RO-M50	2300240569	1×50		
Top Housing with 4 level Hoods 	Side H24B	H24B-THS-M50	2300240558	1×50		
	Top H24B	H24B-THG-M50	2300240559	1×50		

HB CENTRAL LOCKING METAL CASE HB Central


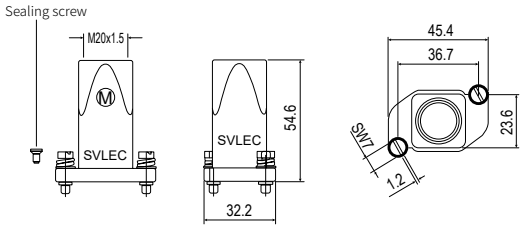

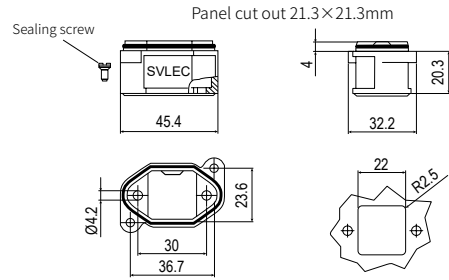

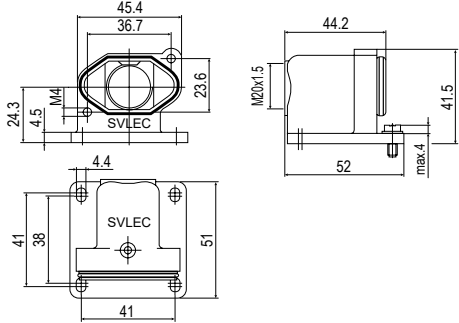
Locking(IP65) Series

Identification	Size	Type	Part No.	Metr.	Dimensions in mm
Hoods side entry 	H16B	H16B-TSH-RC-M25	2370160586	25	
	H16B	H16B-TSH-RC-M32	2370160587	32	
	H24B	H24B-TSH-RC-M32	2370240587	32	
	H24B	H24B-TSH-RC-M40	2370240588	40	
Hoods top entry 	H16B	H16B-TGH-RC-M32	2370160487	32	
	H16B	H16B-TGH-RC-M40	2370160488	40	
	H24B	H24B-TGH-RC-M32	2370240487	32	
	H24B	H24B-TGH-RC-M40	2370240488	40	
Housings, bulkhead mounting 	H16B	H16B-AG-RC	2370160381		
	H24B	H24B-AG-RC	2370240381		


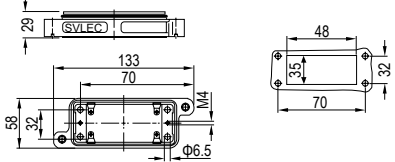
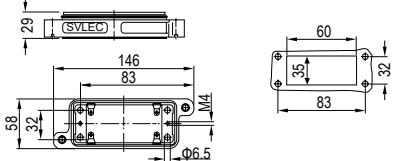
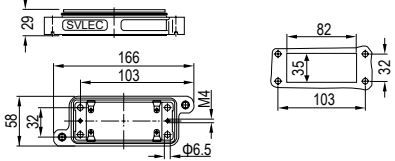
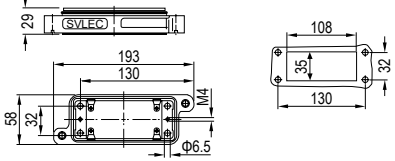
Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

HPR(IP68) METAL HOODS/HOUSINGS SERIES

H3APR (IP68) Series

Identification	Type	Part No.	Metr.	Drawing	Dimensions in mm
Hoods top entry 	H3APR-MTG-M20	2400030410	20		
Housings, bulkhead mounting: bottom entry 	H3APR-MAG	2400030311			Panel cut out 21.3×21.3mm
Housings, surface mounting: bottom entry 	H3APR-MAGSVB-M20	2400030950	20		

HBPR Diagonally Locked (IP68) Series

Identification	Size	Type	Part No.	Metr.	Drawing	Dimensions in mm
Housings, bulkhead mounting 	H6BPR	H6BPR-AG	2400060311			
	H10BPR	H10BPR-AG	2400100311			
	H16BPR	H16BPR-AG	2400160311			
	H24BPR	H24BPR-AG	2400240311			

Protection Degree: IP68, Refer to page B8.5.2 for a drawing of the opening dimensions.


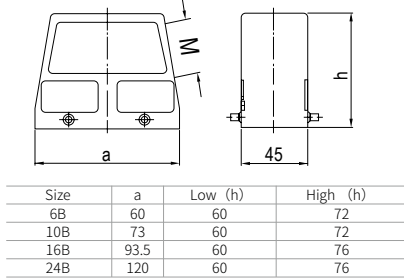

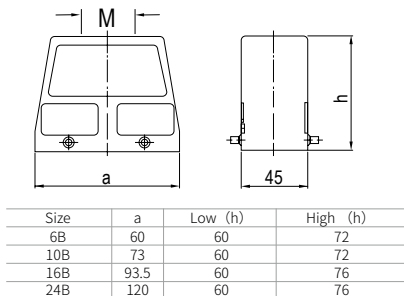

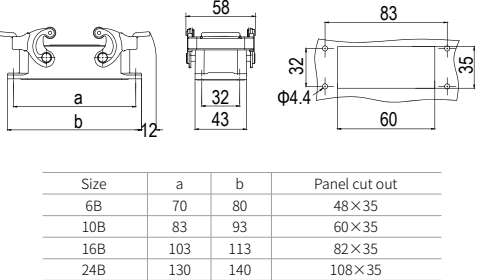

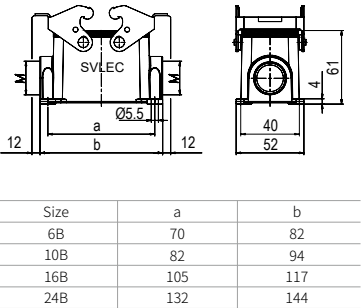

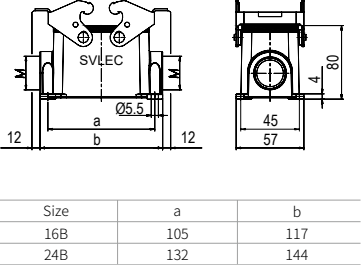
HPR (IP68) METAL HOODS / HOUSINGS SERIES

HBPR Diagonally Locked (IP68) Series

Identification	Size	Type	Part No.	Metr.	Drawing	Dimensions in mm
Hoods side entry 	H6BPR	H6BPR-TSH-M20	2400060510	20		
	H6BPR	H6BPR-TSH-M25	2400060511	25		
	H6BPR	H6BPR-TSH-M32	2400060512	32		
	H6BPR	H6BPR-TSH-M40	2400060513	40		
	H10BPR	H10BPR-TSH-M25	2400100511	25		
	H10BPR	H10BPR-TSH-M32	2400100512	32		
	H10BPR	H10BPR-TSH-M40	2400100513	40		
	H16BPR	H16BPR-TSH-M25	2400160511	25		
	H16BPR	H16BPR-TSH-M32	2400160512	32		
	H16BPR	H16BPR-TSH-M40	2400160513	40		
	H16BPR	H16BPR-TSH-M50	2400160514	50		
	H24BPR	H24BPR-TSH-M25	2400240511	25		
	H24BPR	H24BPR-TSH-M32	2400240512	32		
	H24BPR	H24BPR-TSH-M40	2400240513	40		
	H24BPR	H24BPR-TSH-M50	2400240514	50		
	Hoods top entry 	H6BPR	H6BPR-TGH-M20	2400060410	1×20	
H6BPR		H6BPR-TGH-M25	2400060411	1×25		
H6BPR		H6BPR-TGH-M32	2400060412	1×32		
H6BPR		H6BPR-TGH-M40	2400060413	1×40		
H10BPR		H10BPR-TGH-M25	2400100411	1×25		
H10BPR		H10BPR-TGH-M32	2400100412	1×32		
H16BPR		H16BPR-TGH-M25	2400160411	1×25		
H16BPR		H16BPR-TGH-M32	2400160412	1×32		
H16BPR		H16BPR-TGH-M40	2400160413	1×40		
H16BPR		H16BPR-TGH-M50	2400160414	1×50		
H24BPR		H24BPR-TGH-M32	2400240412	1×32		
H24BPR		H24BPR-TGH-M40	2400240413	1×40		
H24BPR		H24BPR-TGH-M50	2400240414	1×50		

Protection Degree: IP68, Refer to page B8.5.2 for a drawing of the opening dimensions.


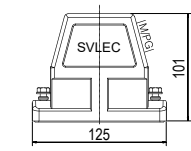
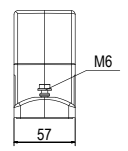
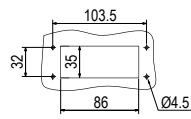
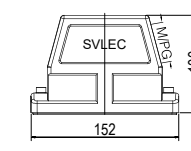
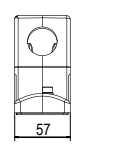
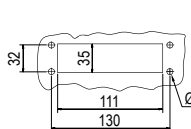

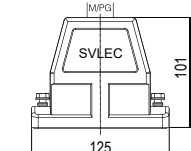
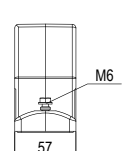
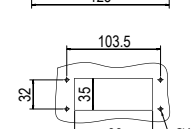
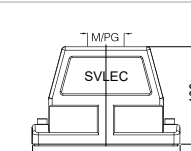
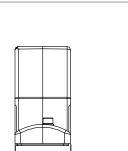
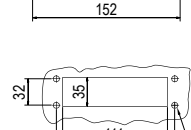

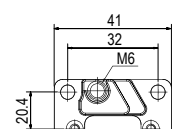
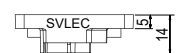
EMC HOODS/HOUSINGS

Identification	Size	Type	Part No.	Metr.	Drawing	Dimensions in mm																						
Hoods side entry 	6B	H6BEC-TSH-M25	2628060546	25	 <table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>Low (h)</th> <th>High (h)</th> </tr> </thead> <tbody> <tr> <td>6B</td> <td>60</td> <td>60</td> <td>72</td> </tr> <tr> <td>10B</td> <td>73</td> <td>60</td> <td>72</td> </tr> <tr> <td>16B</td> <td>93.5</td> <td>60</td> <td>76</td> </tr> <tr> <td>24B</td> <td>120</td> <td>60</td> <td>76</td> </tr> </tbody> </table>	Size	a	Low (h)	High (h)	6B	60	60	72	10B	73	60	72	16B	93.5	60	76	24B	120	60	76	H6BEC-TSH-M32	2628060547	32
		Size	a	Low (h)		High (h)																						
	6B	60	60	72																								
	10B	73	60	72																								
16B	93.5	60	76																									
24B	120	60	76																									
10B	H10BEC-TSH-M25	2628100526	25																									
	H10BEC-TSH-M32	2628100527	32																									
16B	H16BEC-TSH-M25	2628160526	25																									
	H16BEC-TSH-M32	2628160527	32																									
24B	H24BEC-TSH-M32	2628240527	32																									
	H24BEC-TSH-M40	2628240528	40																									
Top entry 	6B	H6BEC-TGH-M25	2628060446	25	 <table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>Low (h)</th> <th>High (h)</th> </tr> </thead> <tbody> <tr> <td>6B</td> <td>60</td> <td>60</td> <td>72</td> </tr> <tr> <td>10B</td> <td>73</td> <td>60</td> <td>72</td> </tr> <tr> <td>16B</td> <td>93.5</td> <td>60</td> <td>76</td> </tr> <tr> <td>24B</td> <td>120</td> <td>60</td> <td>76</td> </tr> </tbody> </table>	Size	a	Low (h)	High (h)	6B	60	60	72	10B	73	60	72	16B	93.5	60	76	24B	120	60	76	H6BEC-TGH-M32	2628060447	32
		Size	a	Low (h)		High (h)																						
	6B	60	60	72																								
	10B	73	60	72																								
16B	93.5	60	76																									
24B	120	60	76																									
10B	H10BEC-TGH-M25	2628100426	25																									
	H10BEC-TGH-M32	2628100427	32																									
16B	H16BEC-TGH-M25	2628160426	25																									
	H16BEC-TGH-M32	2628160427	32																									
24B	H24BEC-TGH-M32	2628240427	32																									
	H24BEC-TGH-M40	2628240428	40																									
Housings, bulkhead mounting 	H6B	H6BEC-AG	2628060301		 <table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>b</th> <th>Panel cut out</th> </tr> </thead> <tbody> <tr> <td>6B</td> <td>70</td> <td>80</td> <td>48×35</td> </tr> <tr> <td>10B</td> <td>83</td> <td>93</td> <td>60×35</td> </tr> <tr> <td>16B</td> <td>103</td> <td>113</td> <td>82×35</td> </tr> <tr> <td>24B</td> <td>130</td> <td>140</td> <td>108×35</td> </tr> </tbody> </table>	Size	a	b	Panel cut out	6B	70	80	48×35	10B	83	93	60×35	16B	103	113	82×35	24B	130	140	108×35			
	Size	a	b	Panel cut out																								
	6B	70	80	48×35																								
	10B	83	93	60×35																								
16B	103	113	82×35																									
24B	130	140	108×35																									
H10B	H10BEC-AG	2628100301																										
H16B	H16BEC-AG	2628160301																										
H24B	H24BEC-AG	2628240301																										
Surface mounting: Side entry 	H6B	H6BEC-SGR-2M20	2628061290	2×20	 <table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>b</th> </tr> </thead> <tbody> <tr> <td>6B</td> <td>70</td> <td>82</td> </tr> <tr> <td>10B</td> <td>82</td> <td>94</td> </tr> <tr> <td>16B</td> <td>105</td> <td>117</td> </tr> <tr> <td>24B</td> <td>132</td> <td>144</td> </tr> </tbody> </table>	Size	a	b	6B	70	82	10B	82	94	16B	105	117	24B	132	144								
	Size	a	b																									
	6B	70	82																									
	10B	82	94																									
16B	105	117																										
24B	132	144																										
H10B	H10BEC-SGR-2M25	2628101271	2×25																									
H16B	H16BEC-SGR-2M25	2628161271	2×25																									
H24B	H24BEC-SGR-2M25	2628241271	2×25																									
Surface mounting: Side entry 	H16B	H16BEC-SGRH-2M32	2628160271	2×32	 <table border="1"> <thead> <tr> <th>Size</th> <th>a</th> <th>b</th> </tr> </thead> <tbody> <tr> <td>16B</td> <td>105</td> <td>117</td> </tr> <tr> <td>24B</td> <td>132</td> <td>144</td> </tr> </tbody> </table>	Size	a	b	16B	105	117	24B	132	144														
		Size	a	b																								
	16B	105	117																									
	24B	132	144																									
	H16BEC-SGRH-2M40	2628160273	2×40																									
H24B	H24BEC-SGRH-2M32	2628240271	2×32																									
	H24BEC-SGRH-2M40	2628240273	2×40																									

Protection Degree: IP65, Refer to page B8.5.2 for a drawing of the opening dimensions.

EMC METAL HOODS / HOUSINGS SERIES

HBHM Center Lock (IP68) Series

Identification	Size	Type	Part No.	Metr.	Drawing	Dimensions in mm
Hoods side entry 	H16BHM	H16BHM-TSH-M25	2420160511	25		 M6 57 Panel cut out
	H16BHM	H16BHM-TSH-M32	2420160512	32		
	H16BHM	H16BHM-TSH-M40	2420160513	40		
						
	H24BHM	H24BHM-TSH-M25	2420240511	25		 M6 57 Panel cut out
	H24BHM	H24BHM-TSH-M32	2420240512	32		
H24BHM	H24BHM-TSH-M40	2420240513	40			
						
Hoods top entry 	H16BHM	H16BHM-TGH-M25	2420160411	1×25		 M6 57 Panel cut out
	H16BHM	H16BHM-TGH-M32	2420160412	1×32		
	H16BHM	H16BHM-TGH-M40	2420160413	1×40		
						
	H24BHM	H24BHM-TGH-M25	2420240411	1×25		 M6 57 Panel cut out
	H24BHM	H24BHM-TGH-M32	2420240412	1×32		
H24BHM	H24BHM-TGH-M40	2420240413	1×40			
						
Lower Shell Mounting Brackets 		BHM-APT	2420000311			 M6 14

Protection Degree: IP68, Refer to page B8.5.2 for a drawing of the opening dimensions.