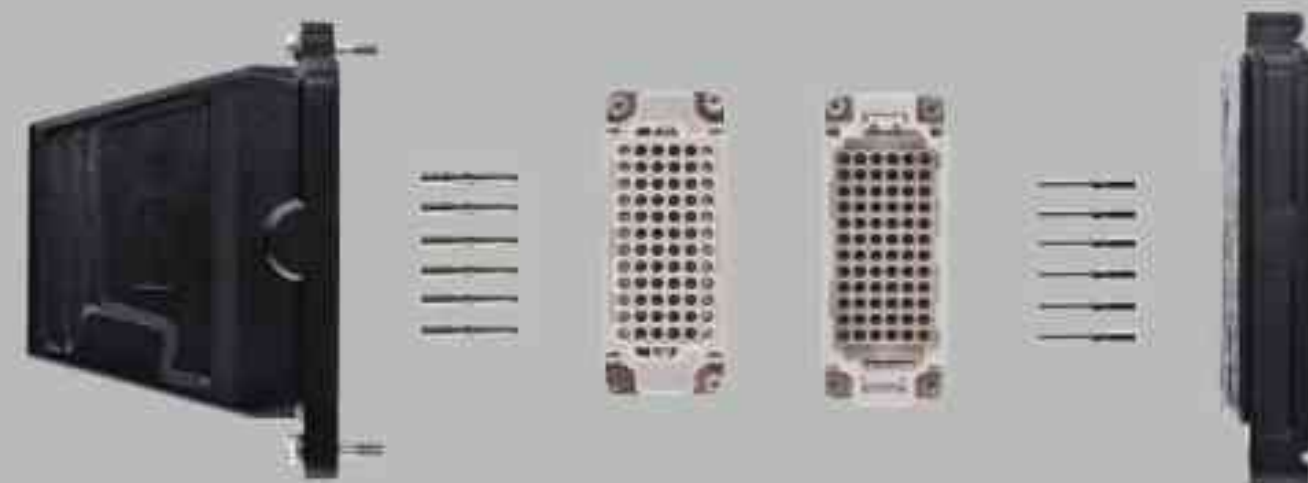




WEVEL INDUSTRIAL CONNECTORS



MANUFACTURING
THE CONNECTOR





About Us:

Suzhou Wevel Electrical Co., Ltd. is a subsidiary of Hunttec Electric Group, specializing in heavy-duty connector business. Located in the beautiful city of Suzhou, China, the company is headquartered in Wujiang District, Suzhou. It is a high-tech enterprise engaged in the R&D, production, and sales of industrial connectors (heavy-duty connectors).

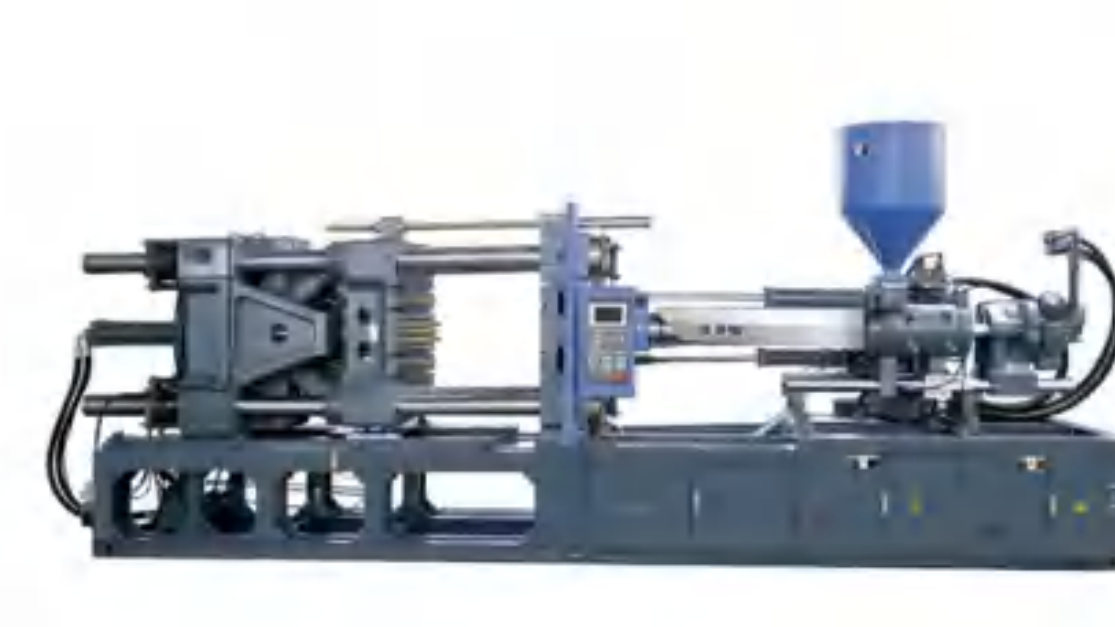
Wevel Electrical is committed to achieving excellence through quality and technological leadership. By introducing advanced technology, professional talent, and high-end equipment, and strictly adhering to standards such as DIN VDE0110, DIN VDE0627, DIN EN61984, and IEC60529 for design and testing, the company has successively launched connector series including HA, HE, HEE, HD, HDD, HSB, HK, HQ, and HM. With thousands of combinations available, these products meet the electrical and signal connection requirements of various fields and applications, widely serving industries such as machinery, energy, power, communications, and engineering.

Customer satisfaction and expectations are Wevel's unwavering pursuit of quality. Advanced technology, scientific management, and excellent service ensure the continuous improvement of Wevel's product quality. Product safety and environmental protection are Wevel's social responsibilities.

Currently, Wevel is rapidly advancing in connector product supply, technological innovation, and automated production.

In the future, Wevel will uphold its consistent business philosophy, design and develop new products, and strive for high quality to provide customers with comprehensive product series and services.

Adhering to the quality policy of "scientific management, continuous innovation, meticulous attention, and relentless improvement," and the business philosophy of "driven by technology, surviving on quality," Wevel continuously enhances product quality. Wevel connectors have obtained product certifications such as CCC, CE, UL, ISO, and ROHS, providing strong assurance of product quality. We firmly believe that by staying market-oriented, driving innovation, relying on quality for survival, and seeking growth through development, we will achieve an even brighter tomorrow.



Directory

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HD Series	45-56	●
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HM Series	69-105	●
HK Series	106-120	●
HQ Series	121-132	●
Shell Series	133-209	●
Attachment	210-228	●
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Technical information of inserts

OVERVIEW

Insert	Type	Poles	Current	Voltage	Connection	Contact	House
HA	HA-003	3+PE	10A	250V	Screw Spring	——	H3A
	HA-004	4+PE	10A	250V		——	H3A
	HA-010	10+PE	16A	250V	Screw Crimping Spring	ESM/F Ilver Plating (16A) EGM/F Gilding (16A)	H10A
	HA-016	16+PE	16A	250V	Screw CrCrimping		H16A
	HA-032	32+PE	16A	250V			H32A
Insert	Type	Poles	Current	Voltage	Connection	Contact	House
HE	HE-006	6+PE	16A	500V	Screw Crimping Spring	ESM/F Ilver Plating (16A) EGM/F Gilding (16A)	H6B
	HE-010	10+PE	16A	500V			H10B
	HE-016	16+PE	16A	500V			H16B
	HE-024	24+PE	16A	500V			H24B
	HE-032	32+PE	16A	500V			H32B
	HE-048	48+PE	16A	500V			H48B
Insert	Type	Poles	Current	Voltage	Connection	Contact	House
HEE	HEE-010	10+PE	16A	500V	Crimping	ESM/F Ilver Plating (16A) EGM/F Gilding (16A)	H6B
	HEE-018	18+PE	16A	500V			H10B
	HEE-032	32+PE	16A	500V			H16B
	HEE-046	46+PE	16A	500V			H24B
	HEE-064	64+PE	16A	500V			H32B
	HEE-092	92+PE	16A	500V			H48B
	HEE-040	40+PE	16A	500V			H16B
Insert	Type	Poles	Current	Voltage	Connection	Contact	House
HD	HD-007	7+PE	10A	250V	Crimping	DSM/F Ilver Plating (10A) DGM/F Gilding (10A)	H3A
	HD-008	8	10A	AC50V			H3A
	HD-015	15+PE	10A	250V			H10A
	HD-025	25+PE	10A	250V			H16A
	HD-040	40+PE	10A	250V			H16B
	HD-050	50+PE	10A	250V			H32A
	HD-064	64+PE	10A	250V			H24B
	HD-080	80+PE	10A	250V			H32B
	HD-128	128+PE	10A	250V			H48B
Insert	Type	Poles	Current	Voltage	Connection	Contact	House
HDD	HDD-024	24+PE	10A	250V	Crimping	DSM/FS Ilver Plating (10A) DGM/F Gilding (10A)	H6B
	HDD-042	42+PE	10A	250V			H10B
	HDD-072	72+PE	10A	250V			H16B
	HDD-108	108+PE	10A	250V			H24B
	HDD-144	144+PE	10A	250V			H32B
	HDD-216	216+PE	10A	250V			H48B
Insert	Type	Poles	Current	Voltage	Connection	Contact	House
HSB	HSB-006	6+PE	35A	690V	Screw	——	H16B
	HSB-012	12+PE	35A	690V		——	H32B

Technical information of inserts

Insert	Type	Poles	Current	Voltage	Connection	Contact	House
HM	HM-000	—	—	—	Blank	—	H6B-T2-M/F H10B-T3-M/F H16B-T4-M/F H24B-T6-M/F
	HMK-001	1	200A	1000V	Axial bolt, Crimping connection		
	HMK-002	2	100A	1000V	Axial bolt, Crimping connection		
	HMK-002-MC/FC	2	100A	1000V	Crimping connection	CSM/F(100A)	
	HMK70-002	2	70A	1000V	Axial bolt		
	HMK40-002	2	40A	1000V	Crimping connection		
	HMK-004	4	40A	830V	Crimping connection		
	HMK-003/4	3/4	40A	830V	Crimping connection		
	HMK-003	3	40A	690V	Crimping connection	CMM/F&DMM/F(40A)	
	HME-005	5	16A	400V	Explosive connection		
	HME-006	6	16A	500V	Crimping connection	ESM/F&EGM/F(16A)	
	HMEE-008	8	16A	400V	Crimping connection	ESM/F&EGM/F(16A)	
	HMEE-020	20	16A	500V	Crimping connection	ESM/F&EGM/F(16A)	
	HMD-012	12	10A	250V	Crimping connection	DSM/F&DGM/F(10A)	
	HMDD-017	17	10A	160V	Crimping connection	DSM/F&DGM/F(10A)	
	HMDD-036	36	10A	400V	Crimping connection		
	HMDS-009	9	5A	50V	Crimping connection		
	HMDS-025	25	5A	50V	Crimping connection	DSM/F&DGM/F(5A)	
	HMP-002	2			Pipe connection	PCM/F&PCMS/FS	
	HMP-003	3	—	—	Pipe connection	PCM/F&PCMS/FS	
	HMG-008	8+Block	5A	50V	Crimping connection		
	HMM-008	2x4+Block	10A	50V	Crimping connection		
Insert	Type	Poles	Current	Voltage	Connection	Contact	House
HK	HK-4/0	4+PE	80/16A	830/400V	Screw connection		H16B
	HK-4/2	4/2+PE	80/16A	830/400V	Screw connection		H16B
	HK-4/8	4/8+PE	80/16A	830/400V	Screw connection		H24B
	HK-12/2	12/2+PE	40/10A	690/250V	Crimping connection	CMM/F&DMM/F(40A)	H16B
	HK-006/6	6/6+PE	100/16A	690/400V	Axial screw crimping		H24B
	HK-006/36	6/36+PE	40/10A	690/160V	Crimping connection		H16B
	HK-032/55	32/55+PE	10/4A	250/50V	Crimping connection		H10B
	HWK-006/6	6/6+PE	40/16A	690/400V	Screw connection		H16B
Insert	Type	Poles	Current	Voltage	Connection	Contact	House
HQ	HQ-003/0	3+PE	40A	400V	Crimping connection		H3A
	HQ-005	5+PE	16A	400V	Crimping connection	ESM/F&EGM/F(16A)	H3A
	HQ-007	7+PE	10A	400V	Crimping connection	DSM/F&DGM/F(10A)	H3A
	HQ-012	12+PE	10A	400V	Crimping connection	DSM/F&DGM/F(10A)	H3A
Frame	HQV-002	2+PE	40A	400V	Axial screw crimping		H3A
	Type	Number of assemblyable modules					
	H10A-T1-M/F	1					H10A
	H6B-T2-M/F	2					H6B
	H10B-T3-M/F	3					H10B
	H16B-T4-M/F	4					H16B
	H24B-T6-M/F	6					H24B

OVERVIEW

(How to order)

OVERVIEW

①



1.Cable gland

Nylon or brass nickel plated

Universal cable glands

Cable gland with normal or multiple seal

Other cable gland

②



2.Hoods

Low or high construction

Top or side cable entry

2blots or 4blots or 2 locking levers

④



3.Male insert or Female insert

Screw terminal

Crimp terminal

Spring terminal

③



③



④



4.Crimp contacts(available for crimp connection insert)

Gold plated or silver plated

Rated current: 5A,10A,16A,40A

⑤



5.Housings

Bulkheadmounting or surface mounting or cable to cable

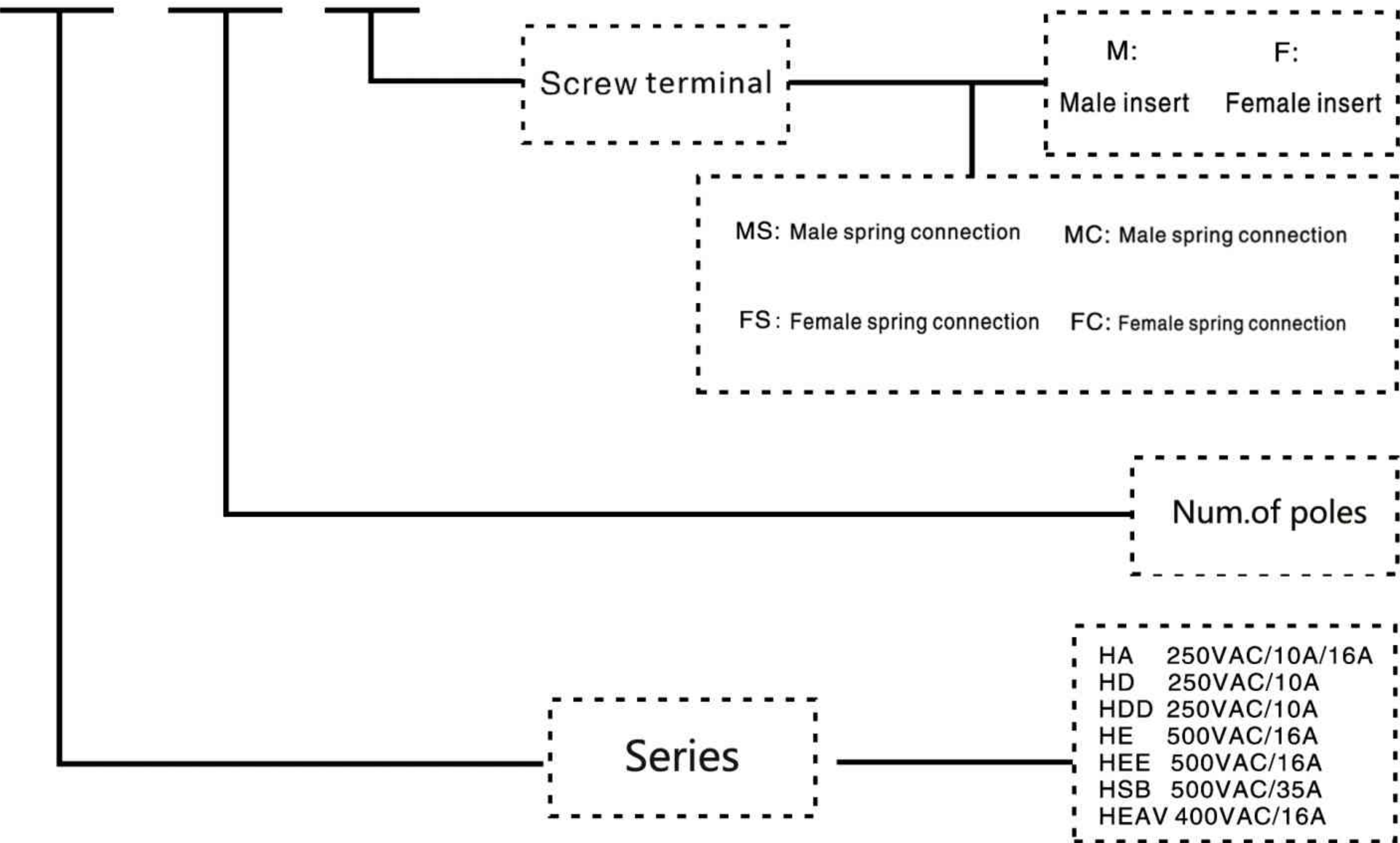
Low or high construction

1 or 2 locking levers or 4bolts

With or withoutthermoplastic/metal covers

Inesrt

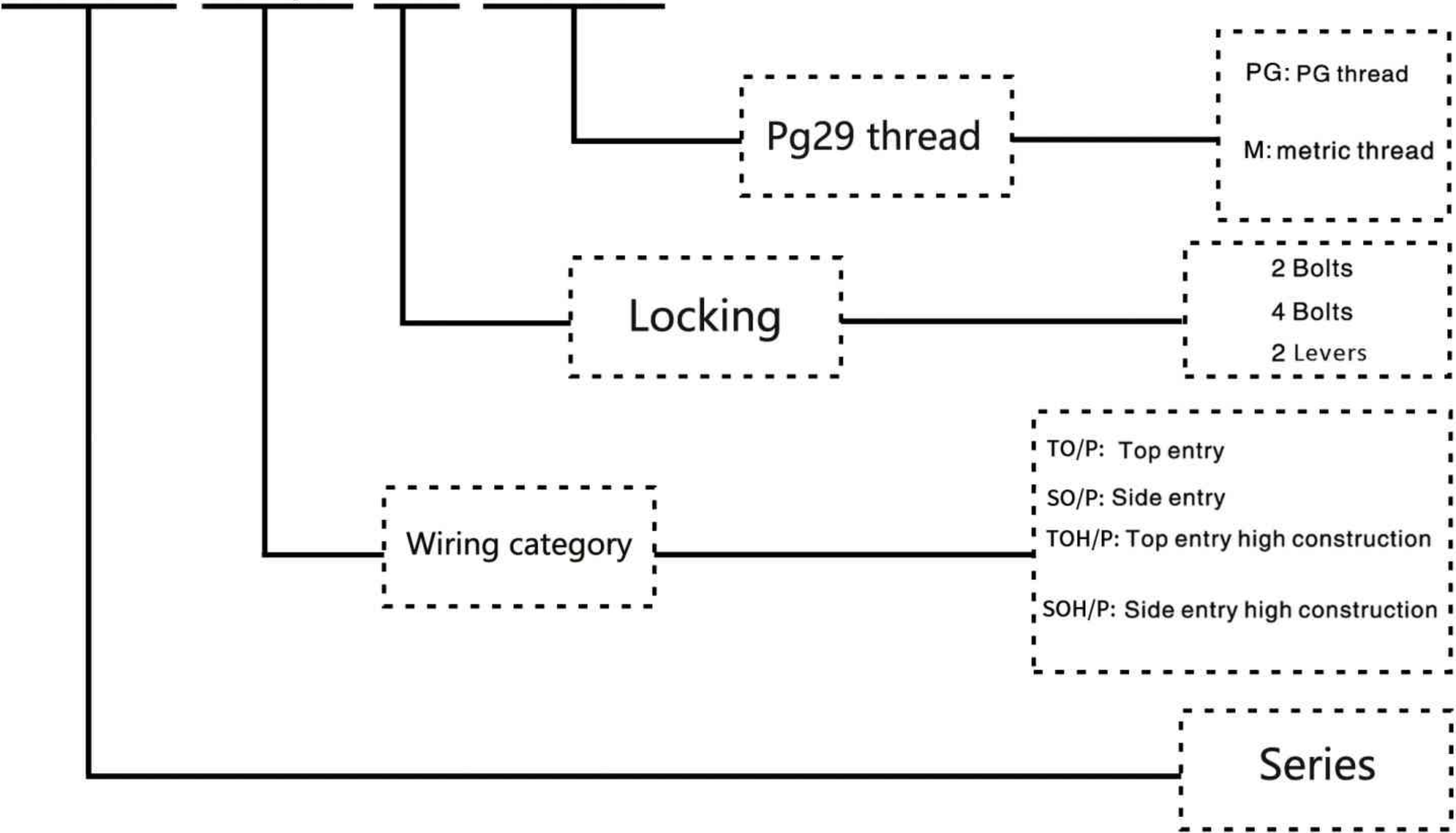
HE-024-M



OVERVIEW

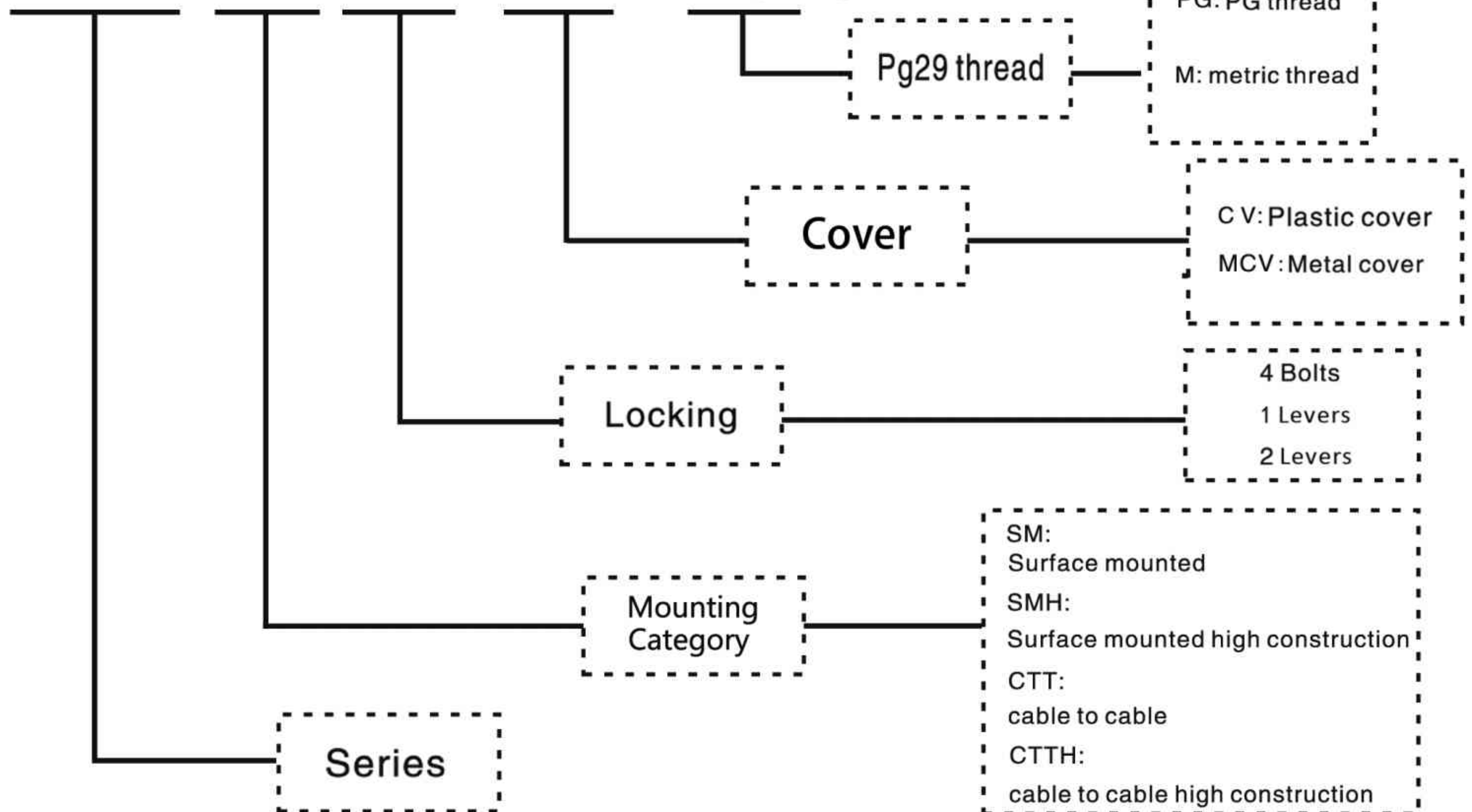
Housings

H24B-TO/P-4B-PG29



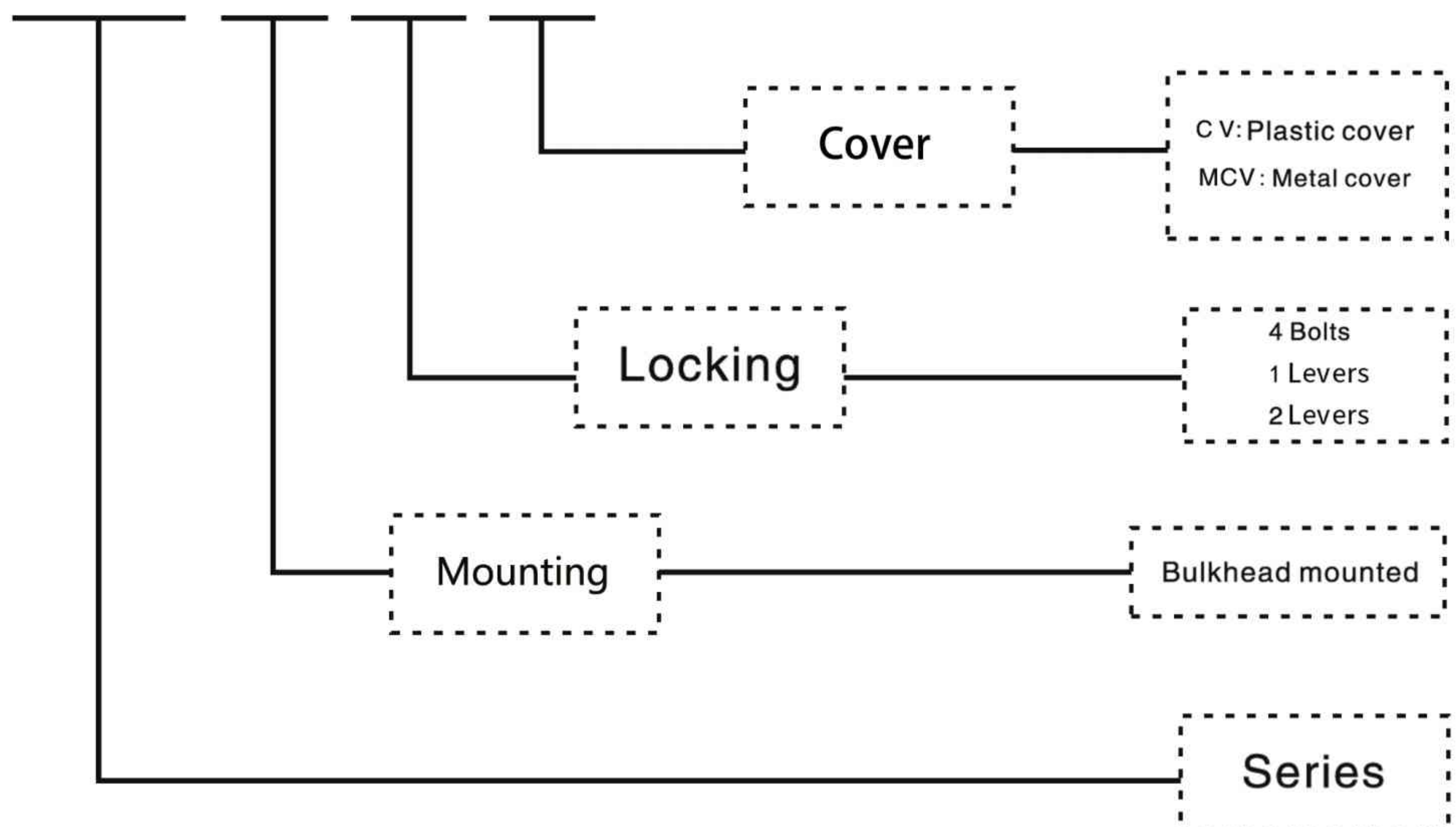
Housings

H24B-SM-1L-CV-PG29



Housings

H24B-HB-4B-CV



The following table shows the different degrees of protection

Code letters
(International Protection)

IP

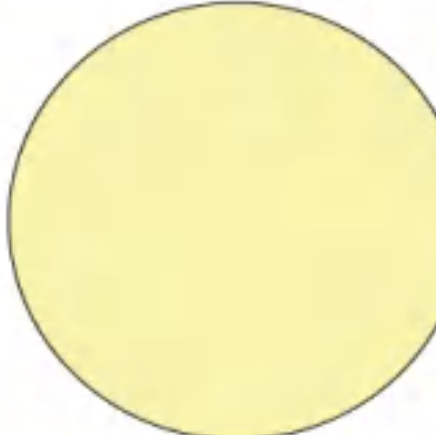
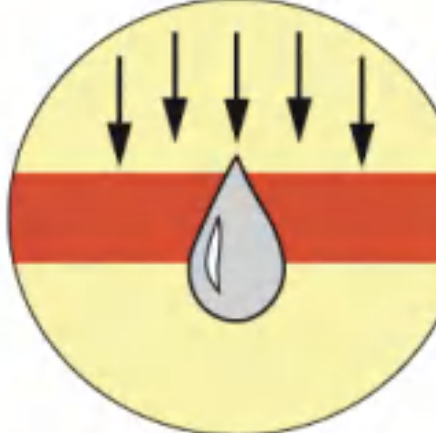
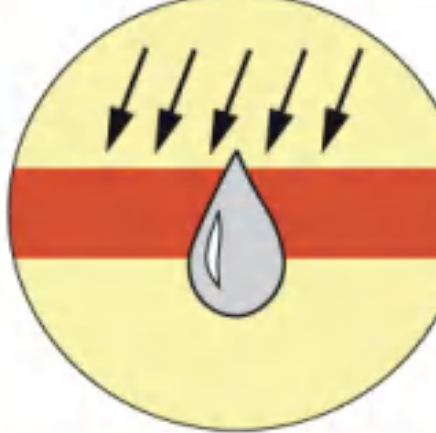
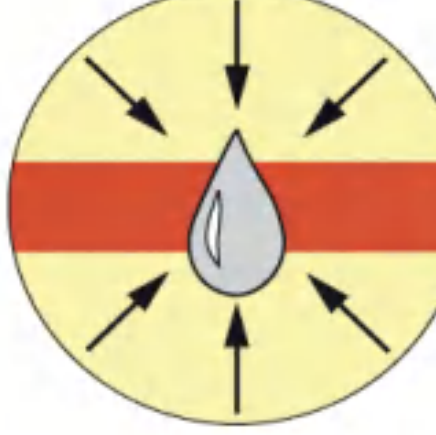
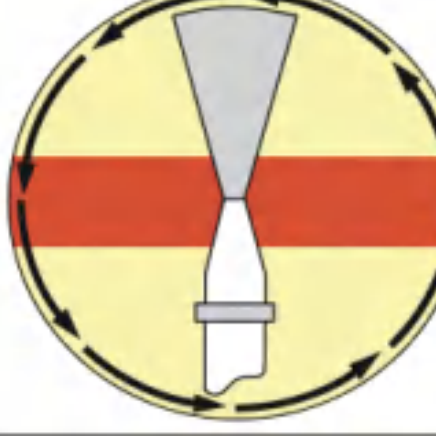
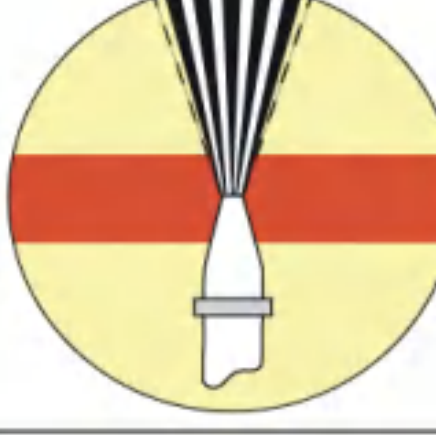
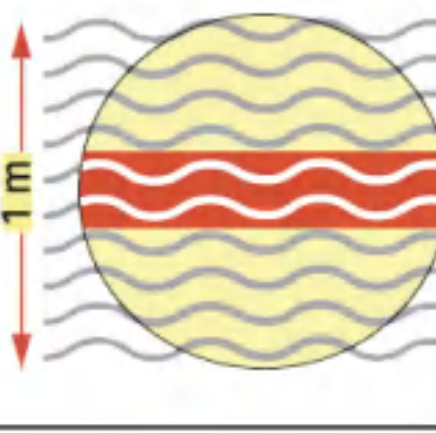
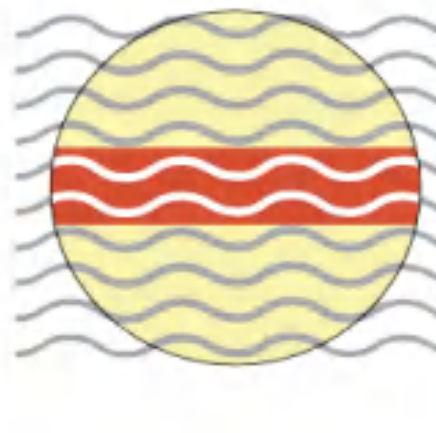
First Index Figure
(Foreign bodies protection)

6

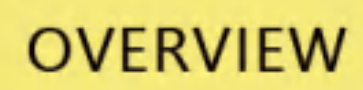
Second Index Figure
(Water protection)

5

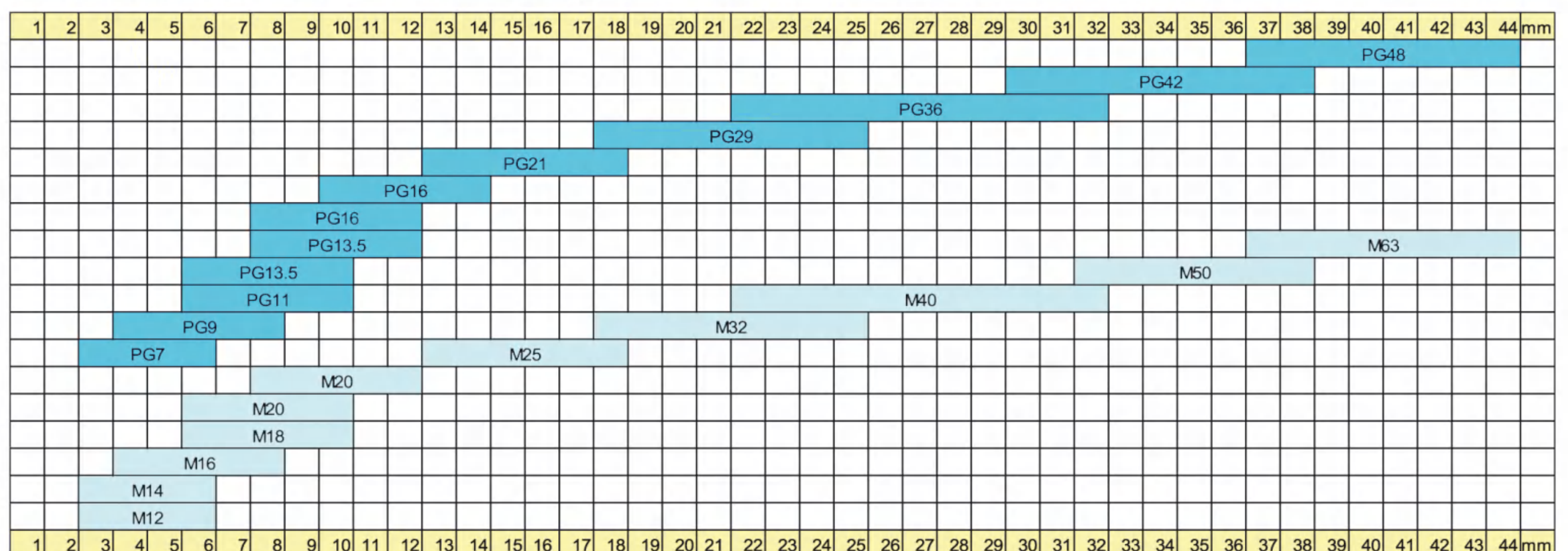
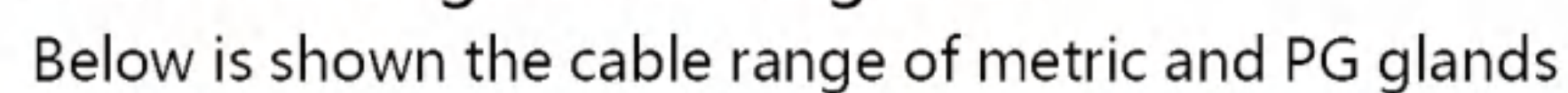
OVERVIEW

First digit: Degree of protection against solid objects intrusion		Second digit: Level of preventing liquid intrusion	
0	 Without protection	0	 Without protection
1	 Protective measures should be taken for objects larger than 50mm in size (such as the back of the hand)	1	 Protect against vertical dripping water (such as condensate)
2	 Protect against objects larger than 12.5mm in size (such as fingers)	2	 Protective measures against water droplets with an inclination angle of less than 15 degrees when they are dripping
3	 Protect against objects larger than 2.5mm in size (such as tools or wires)	3	 Protective measures against water droplets with an inclination angle of less than 60 degrees when they are dripping
4	 Protect against objects larger than 1.0mm in size (such as wires or thin rods)	4	 Protect against splashing water from all directions
5	 Protect against the invasion of harmful dust particles	5	 Protect against water jets from all directions
6	 Dust cannot penetrate	6	 Protective water pond or high-sulfur water column
		7	 Sank in 150mm 1 meter deep in the water to prevent water from flowing in
		8	 Sank in water, suitable for prolonged immersion in water

Cross reference from PG thread to metric cable thread

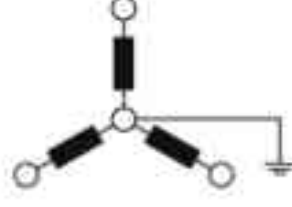
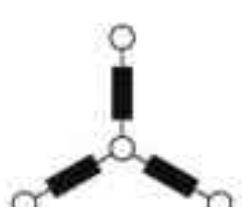
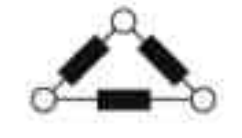
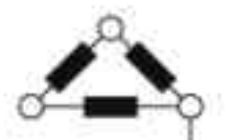


The diagram shows different cable-diameters,being dependent on wire gauges and number of conductors.



Rated impulse voltages (Table 5 of DIN EN 61984)

OVERVIEW

Nominal voltage of the supply system (= rated insulation voltage of equipment)					Preferred values for the rated impulse voltage kV (1.2/50 μ s)			
					Overvoltage category			
					I	II	III	IV
Voltage line to earth derived from the nominal voltage of the supply system to the a. c. voltage (r. m. s. value) or d. c. voltage	AC voltage (r. m. s. value) 	AC voltage   	AC voltage (r. m. s. value d. c. voltage) 	AC voltage (r. m. s. value d. c. voltage) 	Special protected levels	Level for electrical equipment (household and others)	Level for distribution supply systems	Input level
V	V	V	V	V				
100	66/115	66	60	—	0.5	0.8	1.5	2.5
150	120/208; 127/220	115; 120; 127	110; 120	220–110; 240–120	0.8	1.5	2.5	4
300	220/380; 230/400; 240/415; 260/440; 277/480	220; 230; 240; 260; 277	220	440–220	1.5	2.5	4	6
600	347/600; 380/660; 400/690; 415/720; 480/830	347; 380; 400; 415; 440; 480; 500; 577; 600	480	960–480	2.5	4	6	8
1000		660; 690; 720; 830; 1000	1000	—	4	6	8	12

Design of creepage distance for electrical equipment

Since 1997, the size of the creepage distance has been determined according to DIN VDE0110, Part 1 "Insulation Standards for Electrical Equipment in Low-Voltage Systems". Part 1 of VDE0110 includes IEC Report 664-1 (IEC 664-1/Oct 1992).

Since April 2003, the electrical clearance and creepage distance have been jointly formulated by DIN EN 60664-1/11.03 and DIN 61984/09.02.

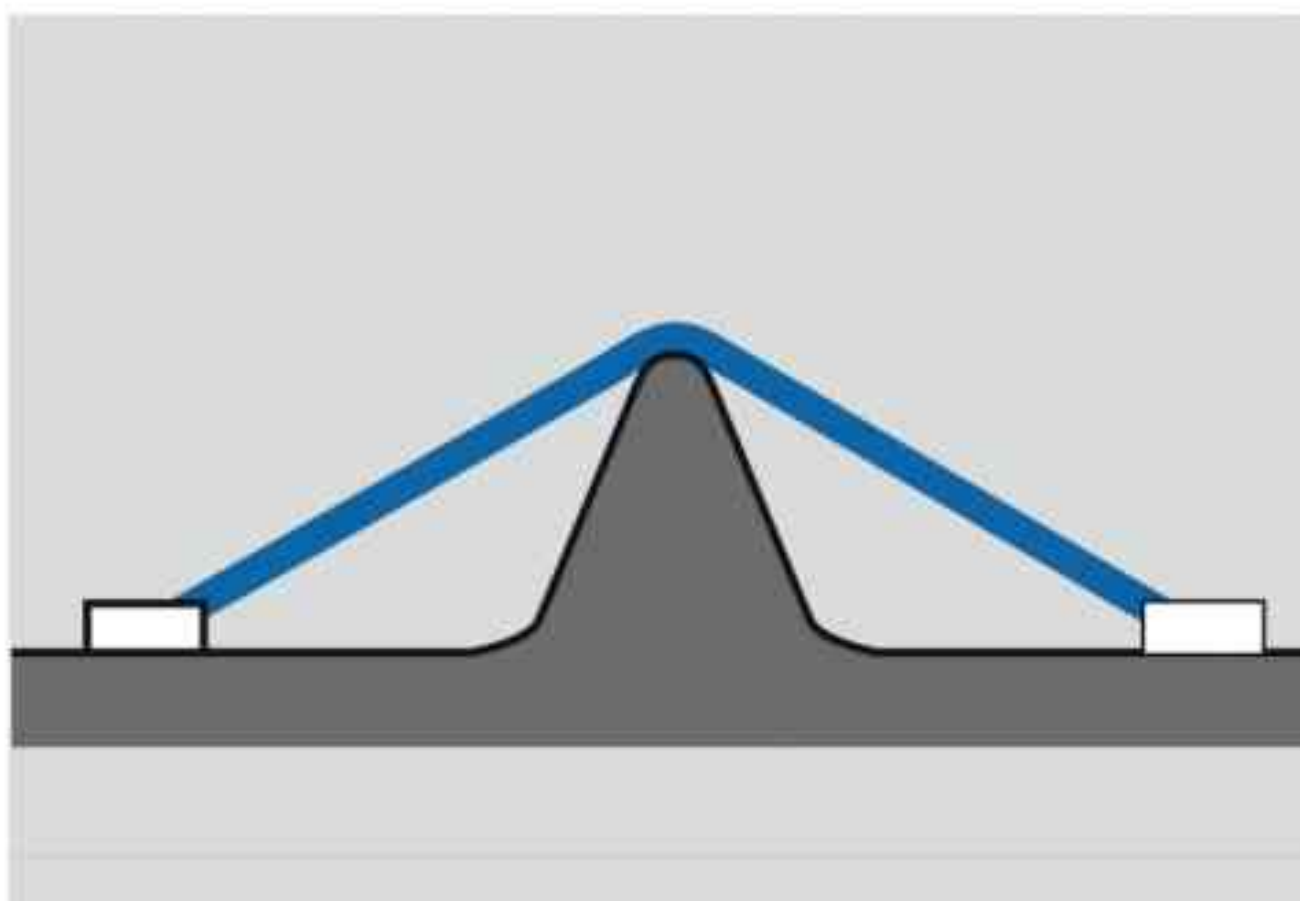
The design parameters are determined by these standards - if applicable, they will be elaborated in detail in each product catalogue.

To determine the electrical clearance and creepage distance, the insulation specifications are as follows:

Electrical clearance

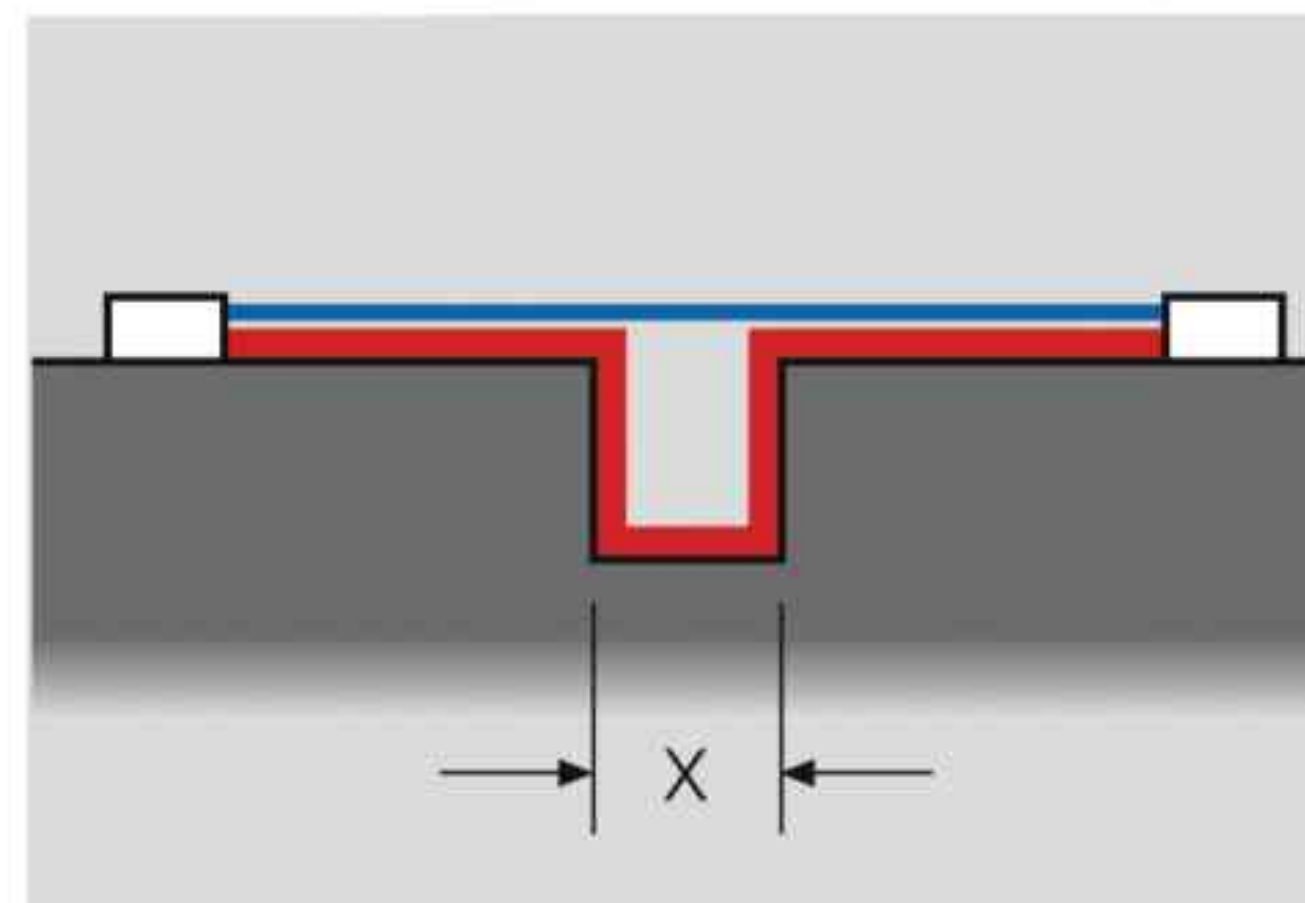
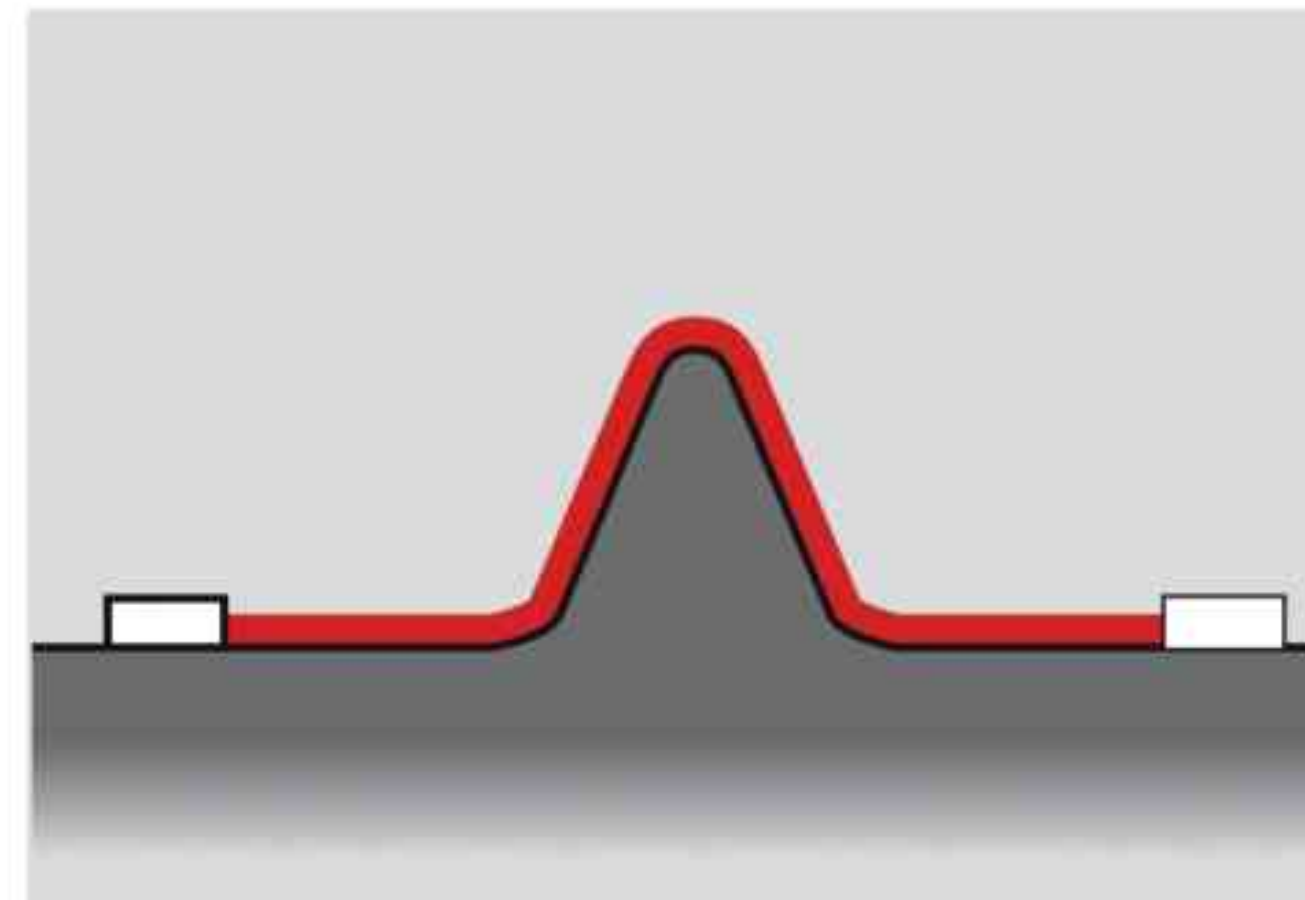
According to the preset voltage of the rated pulse voltage:

- Overvoltage protection warning
- Pollution level
- Cable insulation distance



Cable insulation distance

- The distance of leakage current is determined by the following factors:
- Rated voltage
- Insulation group
- Pollution level
- When measuring the creepage distance, if their minimum width matches the values in the following table, the gap needs to be taken into account.



When measuring the creepage distance, if their minimum width matches the values in the following table, the gap needs to be taken into account.

Pollution level	Minimum width of pollution level Unit: mm
1	0.25
2	1.0
3	1.5
4	2.5

If the assumed creepage distance is less than 3mm, the minimum gap should be two-thirds of the spacing distance.

Over-voltage Category

The following categories in line with the standard IEC 60664-1

OVERVIEW

The overvoltage category is dependent on the mains voltage and the location at which the equipment is installed. It describes the maximum overvoltage resistance of a device in the event of a power supply system fault, e. g. in the event of a lightning strike. According to the relevant standards, there are 4 overvoltage categories.

1. Equipment belonging to Type I overvoltage category:

Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriately low level.

Note: Examples are protected electronic circuits.

2. Equipment belonging to Type II overvoltage:

Equipment of overvoltage category II energy-consuming equipment to be supplied from the fixed installation.

Note: Examples of such equipment are appliances, portable tools and other household equipment with similar loads.

3: Equipment belonging to Overvoltage Type III:

Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements.

Note: Examples of such equipment are switches in the fixed installation and equipment for industrial use with permanent connection to the fixed installation.

4. Equipment belonging to category IV of overvoltage

Equipment of overvoltage category IV is for use at the origin of the installation.

Note: Examples of such equipment are electricity meters and primary overcurrent protection equipment.

The design of electrical clearance and creepage distance for electrical equipment

Influencing factors:

Rated voltage

The rated voltage is determined by the rated voltage of the power supply and the corresponding network type.

Single-phase

2 or 3-wire direct current or alternating current system

Rated voltage of the power supply (mainly)*)	The voltage in Table 4	
	Insulator phase voltage ¹⁾	Insulator line voltage
	All systems	Three-wire system common grounding point
V	V	V
12.5	12.5	
24 / 25 30	25 32	
42 / 48 / 50**)	50 63	
30–60	63	32
100**)	100	
110 / 120 150**)	125 160	
220	250	
110–220 120–240	250	125
300**)	320	
220–440	500	250
600**)	630	
480–960	1000	500
1000**)	1000	

Three-phase

Three-phase three-wire or four-wire alternating current system

The rated voltage of the power supply (mainly)	The voltage in Table 4		
	Insulator Phase voltage	Insulator Line voltage	
	All systems	Three-phase four-wire system ²⁾	Three-phase four-wire system ¹⁾
V	V	V	V
60	63	32	63
110/120/127	125	80	125
150**)	160		160
208	200	125	200
220/230/240	250	160	250
300**)	320		320
380/400/415	400	250	400
440	500	250	500
480/500	500	320	500
575	630	400	630
600**)	630		630
660/690	630	400	630
720/830	800	500	800
960	1000	630	1000
1000**)	1000		1000

1) The insulation level of a system without a neutral wire or with a grounding resistance is the same as that between phases. This is because the operating voltage of each phase can actually reach the theoretical phase voltage value. Moreover, since the actual ground voltage is determined by the grounding insulation impedance and capacitance of each phase; therefore, if the insulation resistance of one phase is low (still feasible) and is grounded, it can improve the other voltage.

2) For grounded or ungrounded three-phase four-wire and three-phase three-wire electrical equipment, only the voltage values of the three-wire system are used.

*) It is necessary to ensure that the rated voltage of the electrical equipment is not lower than the rated voltage of the power supply.

* *) Since there will always be errors, Table 1 does not need to be marked with **. That is to say, * * represents a 3-phase 4-wire discrete system. The lower voltage value represents the line voltage, while the higher voltage value represents the phase voltage. If only one voltage value is mentioned, it refers to a 3-phase 3-wire system, and the voltage used is the phase voltage. The voltage values in Table 1 still need to be marked with ** in Table 3a and Table 3b.

Insulating material

Insulating materials are classified based on the leakage current penetration index. (CTI:Comparative Tracking Index)

The sizes are divided into four groups as follows

Group	
I	$600 \leq \text{CTI}$
II	$400 \leq \text{CTI} < 600$
III a	$175 \leq \text{CTI} < 400$
III b	$100 \leq \text{CTI} < 175$

The relationship between the current of the component, the external temperature, and the temperature increase

This downward curve indicates that when the external temperature is below its upper limit, current will continuously flow through all possible connection points in real time.

The upper limit temperature of the component is determined by the rated value of the material used. The temperature rise caused by the external temperature combined with the current load (energy loss during contact) cannot exceed the upper limit temperature of the component; otherwise, the component will be damaged or even scrapped. Therefore, the current-carrying capacity is not a continuous value, but it decreases as the external temperature of the component increases. Moreover, the current capacitance is affected by the shape of the component, the number of pins, and the connecting conductor.

The current capacitance is determined according to DIN IEC 60512-3. To achieve this, the temperatures of the components t_{b1} , t_{b2} - as well as their external temperatures t_{u1} , t_{u2} - need to be measured under different current conditions I1, I2, I3. The current values are indicated on the following linear chart, showing the relationship between the component's current, external temperature, and temperature increase.

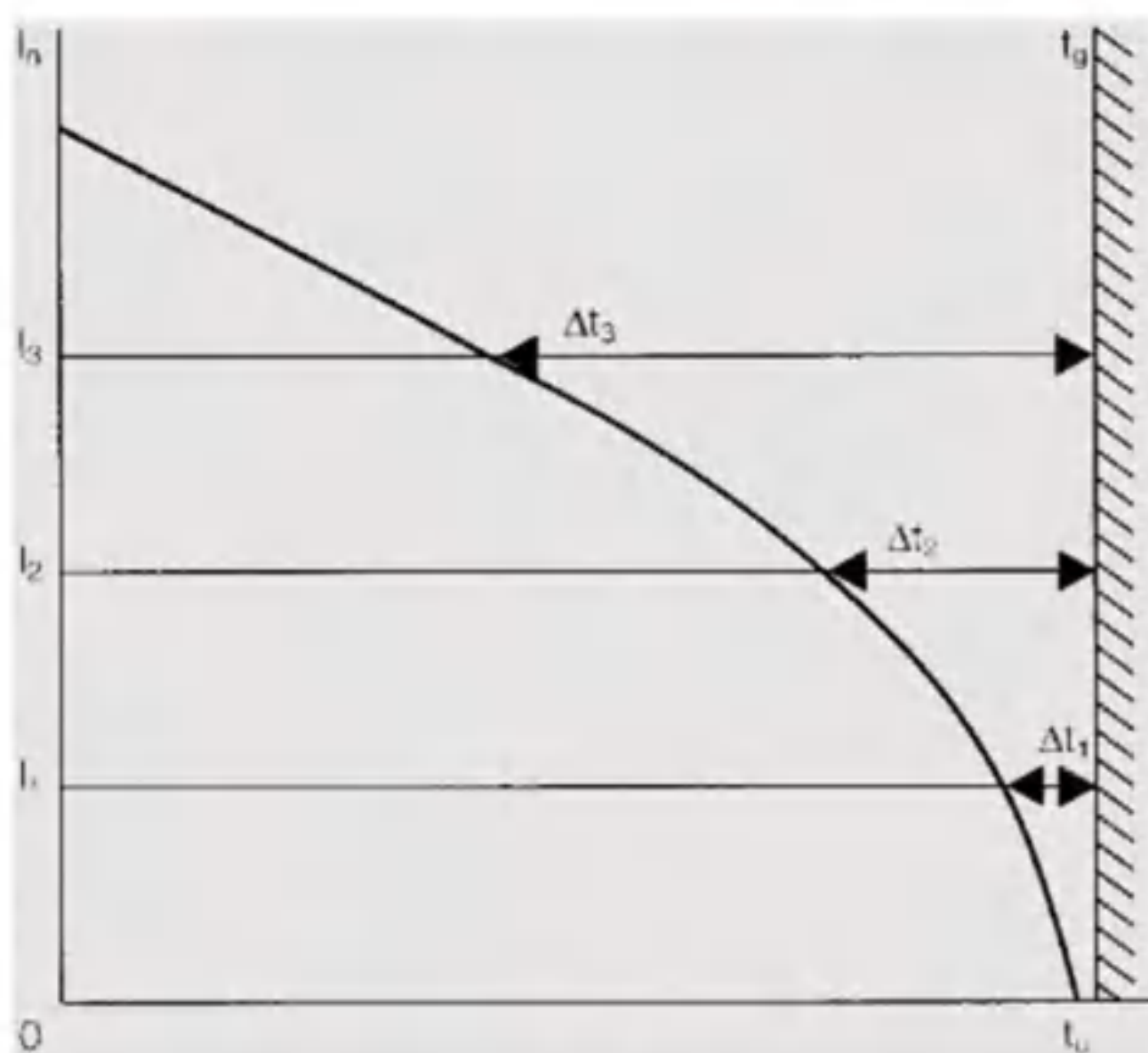
The load current is indicated on the Y-axis, and the external temperature of the component is indicated on the X-axis. The upper limit temperature t_g is represented by a vertical line perpendicular to the X-axis, thus completing the description of the entire component parameter system. The ideal average value of the component's rising temperature is indicated on the current curve, located to the left of the vertical line. These points form a rough description curve.

Since we cannot choose the maximum allowable contact resistance for measurement, the basic curve needs to decrease. Based on experience, reducing the current to 80% of its original value results in a decreasing curve. This takes into account both the maximum allowable contact resistance and the temperature measurement error, and can be used in practical applications. If the decreasing curve exceeds the current in the external low-temperature zone, which is caused by the current-carrying capacity of the connection span part, then the current limit value within this area of the decreasing curve needs to be smaller.

OVERVIEW

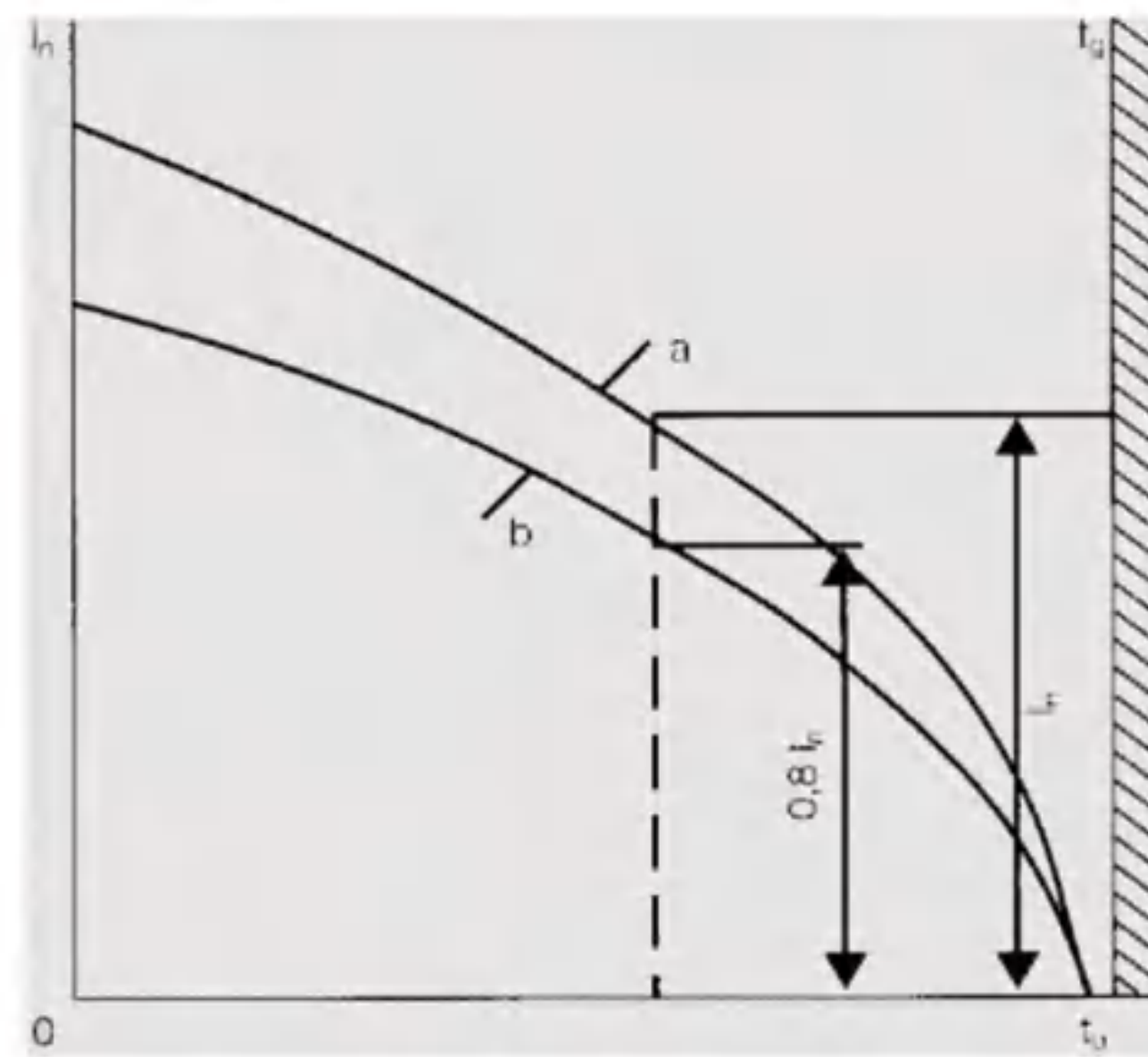
Basic curve

Upper limit temperature of components



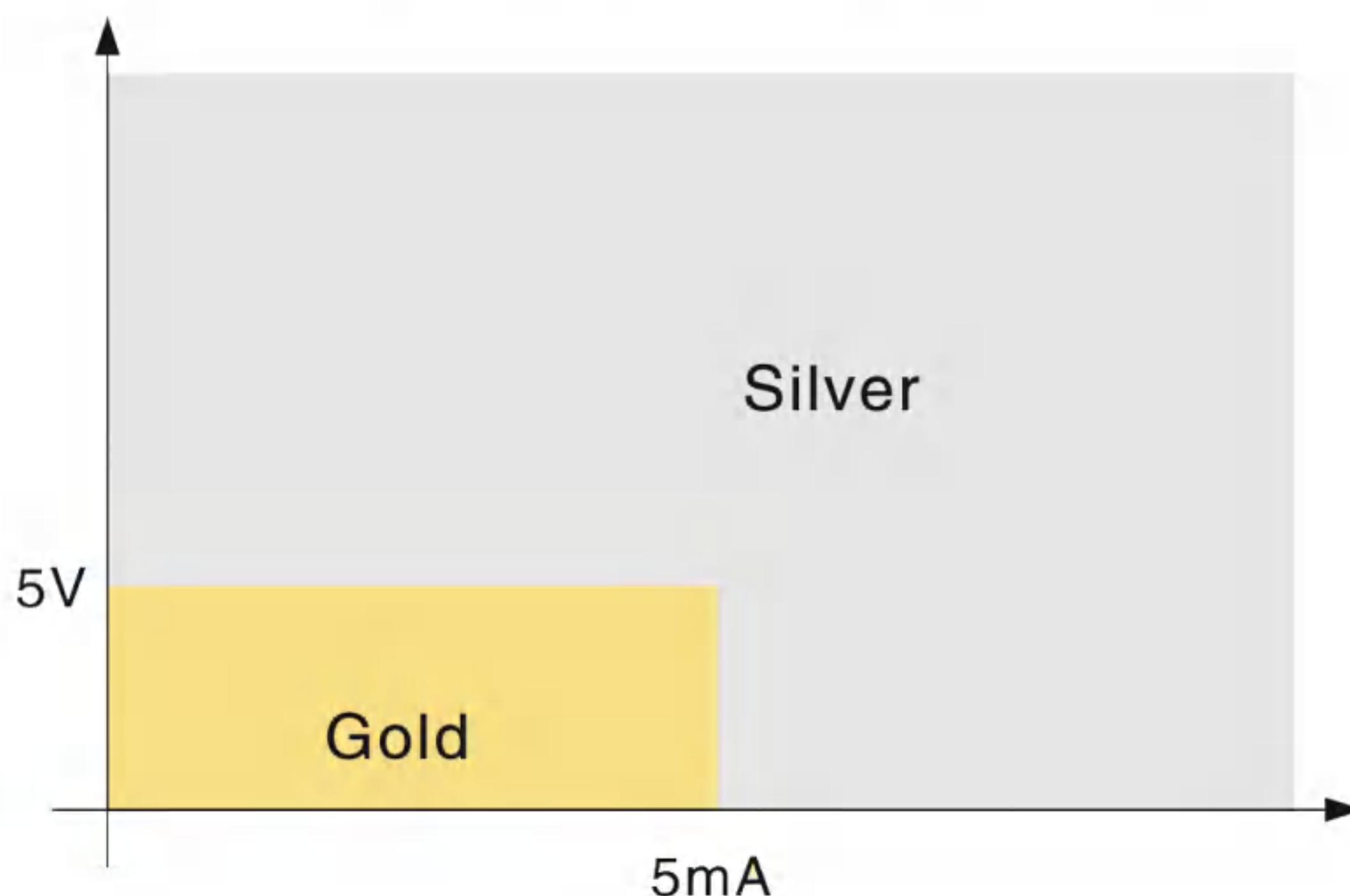
t_g = Upper limit temperature of components
 t_u = Environmental temperature
 I_n = Current

Decremental temperature



t_g = Upper limit temperature of components
 t_u = Environmental temperature
 I_n = Current
a= Basic curve
b= Decay curve

Below is a table derived from actual experiences



Pollution degree

The following categories in line with the standard IEC 60664-1

The dimensioning of operating equipment is dependent on environmental conditions. Any pollution or contamination may give rise to conductivity that, in combination with moisture, may affect the insulating properties of the surface on which it is deposited. The pollution degree influences the design of components in terms of the creepage distance. The pollution degree is defined for exposed, unprotected insulation on the basis of environmental conditions.

Pollution degree I

No pollution or only dry, non-conductive pollution occurs. The pollution has no influence. such as computer and measuring instrument rooms, for example.

Pollution degree II

Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be excepted. such as residential, sales, laboratories, precision engineering workshops, for example.

Pollution degree III

Conductive pollution occurs or dry nonconductive pollution occurs which becomes conductive due to condensation which is to be excepted. such as unheated storage premises, workshops or boiler rooms, also for the electrical components of assembly or mounting equipment and machine tools, for example.

Pollution degree IV

The pollution generates persistent conductivity caused by conductive dust or by rain or snow. such as in outdoor or exterior areas such as equipment mounted on the roofs of locomotives or tramcars.

Special ruling for connectors

Subject to compliance with certain preconditions, the standard for connectors permits a lower pollution degree than that which applies to the installation as a whole. This means that in a pollution degree 3 environment, connectors may be used which are electrically rated for pollution degree 2.

Level II protection and pollution application

Extract from DIN EN 61 984, Para. 6.19.2.2.

For a connector with a degree of protection IP 54 or higher according to IEC 60529, the insulating parts inside the enclosure may be dimensioned for a lower pollution degree. This also applies to mated connectors where enclosure is ensured by the connector housing and which may only be disengaged for test and maintenance purposes.

OVERVIEW

The conditions fulfill:

- A connector which is protected to at least IP 54 as per IEC 60 529.
- A connector which is installed in a housing and which as described in the standard is disconnected for testing and maintenance purposes only.
- A connector which is installed in a housing and which when disconnected is protected by a cap or cover to at least IP 54,
- A connector located inside a switching cabinet to at least IP 54.

Note: These conditions do not extend to connectors which when disconnected remain exposed to the industrial atmosphere for an indefinite period.

Typical applications in which to choose pollution degree II connectors:

- A connector serving a drive motor which is disconnected only for the purpose of replacing a defective motor, even when the plant or system otherwise calls for pollution degree III.
- Connectors located inside a switching cabinet to IP 54. In such cases, it is even possible to dispense with the IP 54 housings of the connectors themselves.
- Connectors serving a machine of modular design which are disconnected for transport purposes only and enable rapid erection and reliable commissioning. In transit, protective covers or adequate packing must be provided to ensure that the connectors are not affected by pollution/contamination.

Wrench tools and screw tools

OVERVIEW

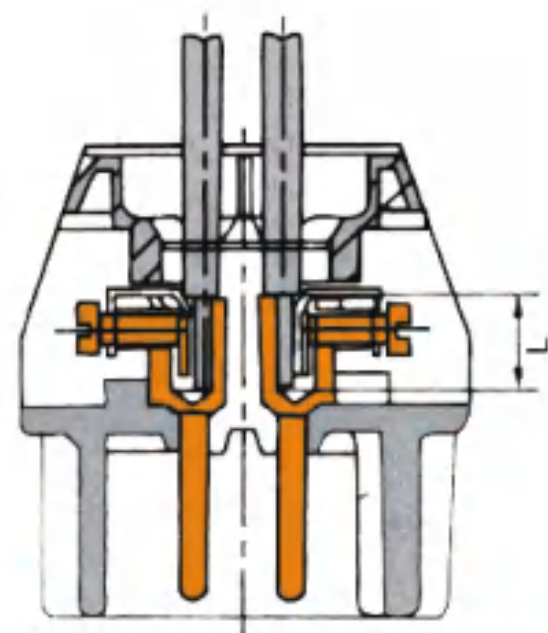
Screw size	Connector type	Locking torque (in Nm)		Recommended blade tip and AF size for hexagon shape
M 2.5	S 6/6 和 S 6/12			
	Connection point			
	Single pin	0.5	0.55	0.6 x 3.5 mm ± Gr. PZ0
M 3	Screw connection			
	HA 3; HA 4; HQ 5	0.5	0.55	0.6 x 3.5 mm ± Gr. PZ0
M 3	Screw connection			
	HA 10 – HA 48	0.5	0.55	0.6 x 3.5 mm ± Gr. PZ0
M 3	HE screw connection			
	HVE Series			
	Locking screw	0.5	0.55	0.6 x 3.5 mm ± Gr. PZ0
	Coding pins	0.5	0.55	0.6 x 3.5 mm ± Gr. PZ0
	Coding patch	0.5	0.55	0.6 x 3.5 mm ± Gr. PZ0
	Coding pin	0.4 – 0.5		0.6 x 3.5 mm ± Gr. PZ0
M 4	PE grounding screw			
	HA Series	1.2 – 1.5		0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1
	HE Series	1.2 – 1.5		0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1
	HVE Series	1.2 – 1.5		0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1
	HD Series	1.2 – 1.5		0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1
	HDD Series	1.2 – 1.5		0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1
M 4	Screw connection			
	HSB Series	1.2 – 1.5		0.6 x 3.5 or 0.8 x 4 mm ± Gr PZ1
M 5	PE grounding screw			
	HSB Series	2 – 2.5		1 x 5.5 mm ± Gr. PZ2
M 7 x 0.75 S 4	Coaxial connection (for electricity)	1.1	1.7	SW 2
M 4	S 4 PE Grounding Screw (Pin)	1.2	1.5	SD 0.6 x 3.5 mm
M 3	S 4 PE Grounding Screw (Socket)	0.5	0.55	SD 0.6 x 3.5 mm
M 7 x 0.75	S6/6 coaxial connection (for electricity)	6	8	SW 4
M 8 x 0.75	S4/0 coaxial connection (for power)	1.1	1.7	SW 2
M 10 x 1	S4/0 coaxial connection (for power)	2	3	SW 3

The specified tightening scale ensures the best mechanical, temperature and electrical conditions. Exceeding the specified values can even damage the conductors and connection terminals.

Terminal type overview

Screw terminal

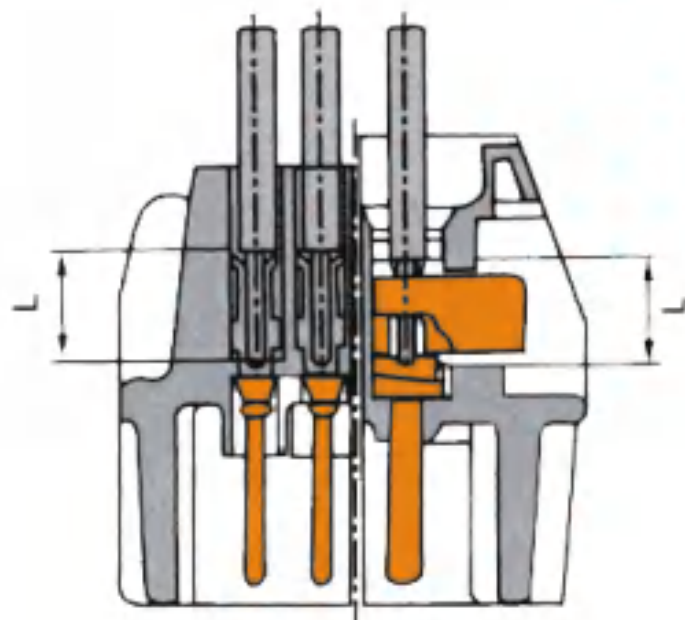
HA series
HE series
HSB series
HK series
HEAV series



Inserts	Max.wire gauge		Stripping length L (mm²)
	(mm²)	AWG	
HA-003, HA-004	2.5	14	4.5
HE, HA, HEAV	2.5	14	7.5
HE	4.0	12	7.5
HSB	6.0	10	11.5
HK	16.0	5	14.0

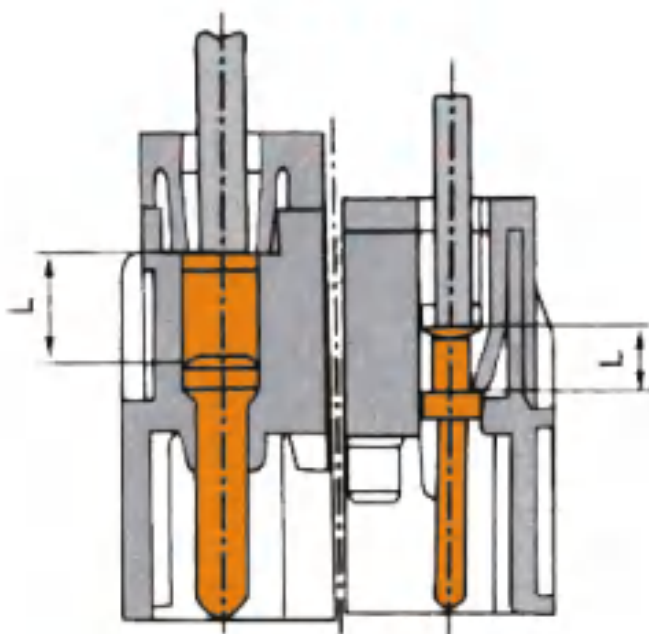
Crimp terminal

HD series
HDD series
HM series (10A)



Inserts	Wire gauge		Stripping length L (mm²)	
	(mm²)	AWG	HDD / HD	HEC/HAC
HD HDD HM(10A)	0.5	20	8.0	7.5
	0.75	18	8.0	7.5
	1.0	18	8.0	7.5
	1.5	16	8.0	7.5
	2.5	14	8.0	7.5
	4.0	12	—	7.5

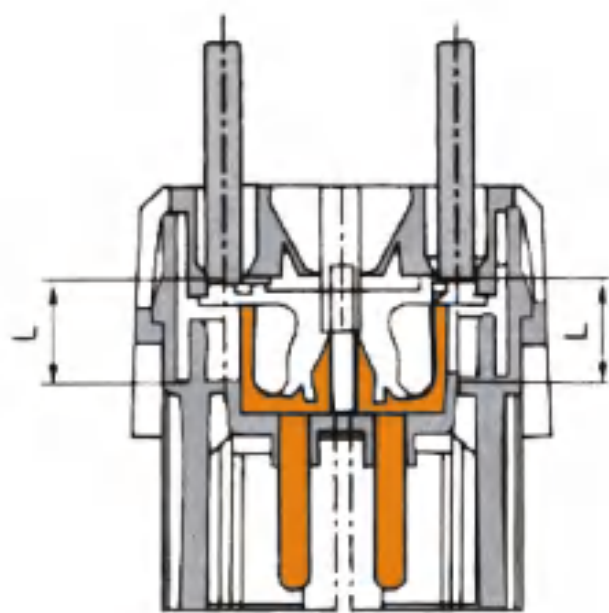
HEE series
HM series (16A)



Inserts	Wire gauge		Stripping length L (mm²)
	(mm²)	AWG	
HEE HM(16A)	0.5	20	7.5
	0.75	18	7.5
	1.0	18	7.5
	1.5	16	7.5
	2.5	14	7.5
	4.0	12	7.5

Cage-clamp terminal

HES series
HEAVS series



Inserts	Max.wire gauge		Stripping length L (mm²)
	(mm²)	AWG	
HES, HEAVS	0.14 - 2.5	26 - 14	9...11

OVERVIEW

Tightening torque for screw terminal

Screw terminals meet VDE 0609/EN 60 999. Dimensions and tightening torques for testing are shown opposite.
The relevant regulations state that in the case of

- Terminals with wire protection.

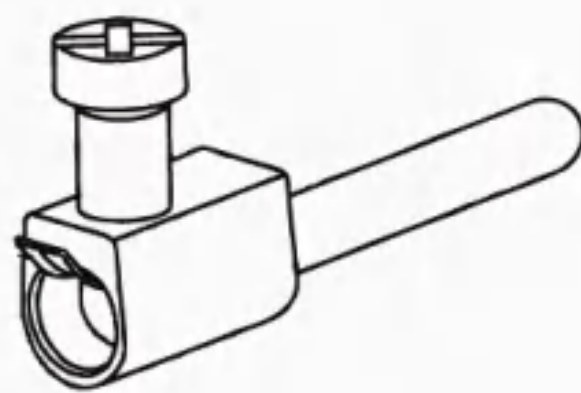
No special preparation of the conductor is required, the use of ferrules is not necessary, for HE, HSB, HEAV series.

- Terminals without wire protection.

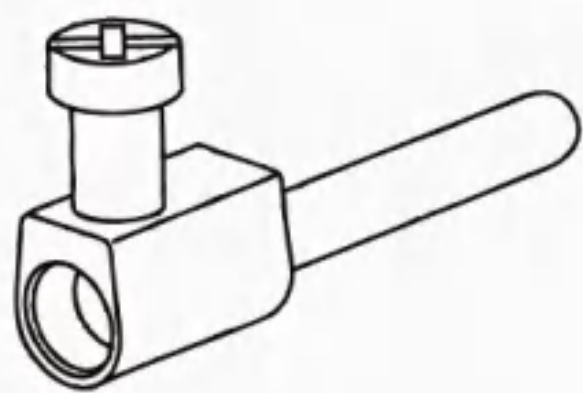
The insulation is first stripped and then a wire ferrule must be used. For HK series.

Screw dimensions and tightening torque for screw terminals

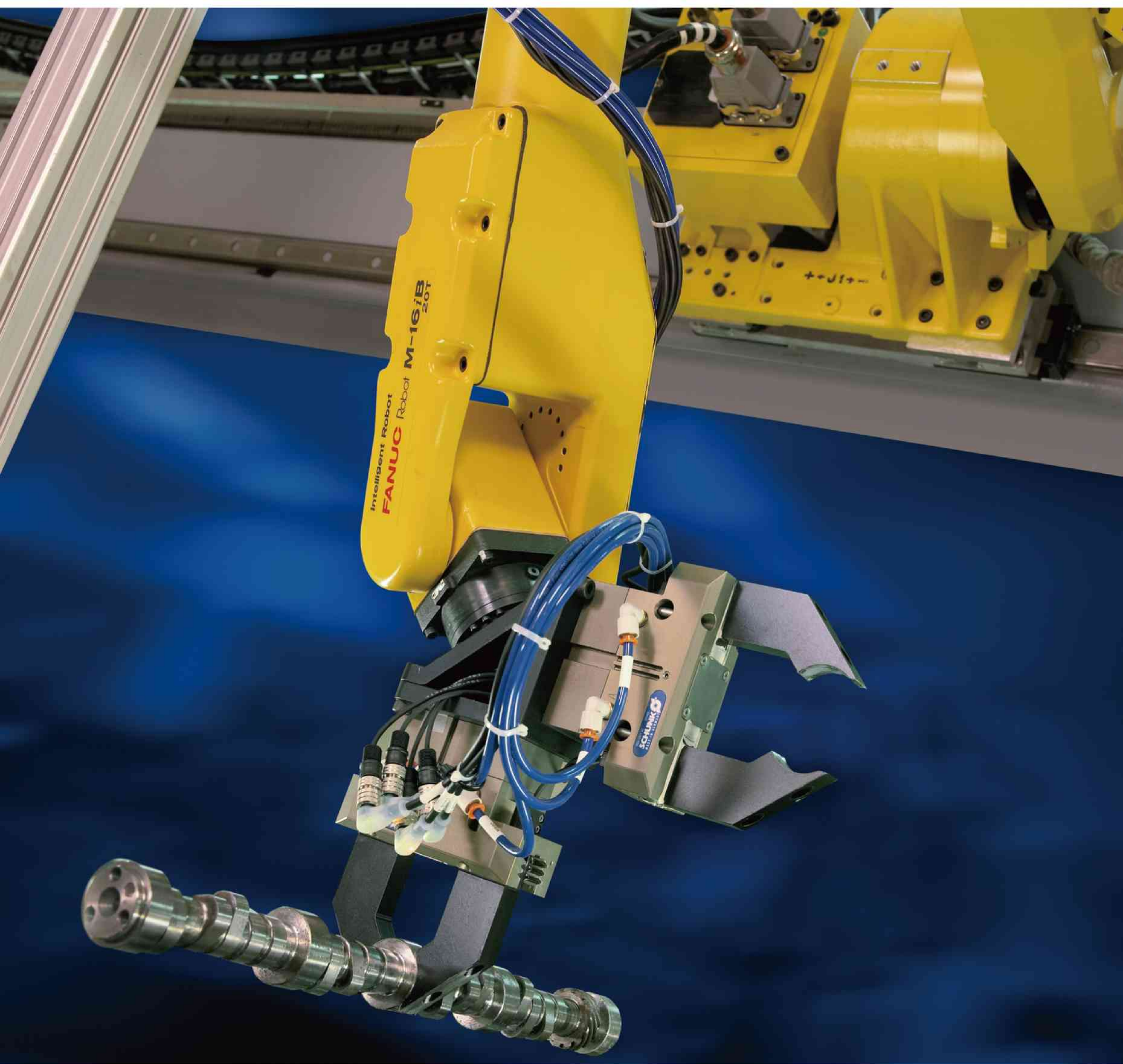
Wire gauge (mm²)	1.5	2.5	4	6	10	16
Screw thread	M 3	M 3	M 3,5	M 4	M 4	M 6
Test moment of torque (Nm)	0.5	0.5	0.8	1.2	1.2	1.2
Min. pull-out for stranded wire (N)	40	50	60	80	90	100

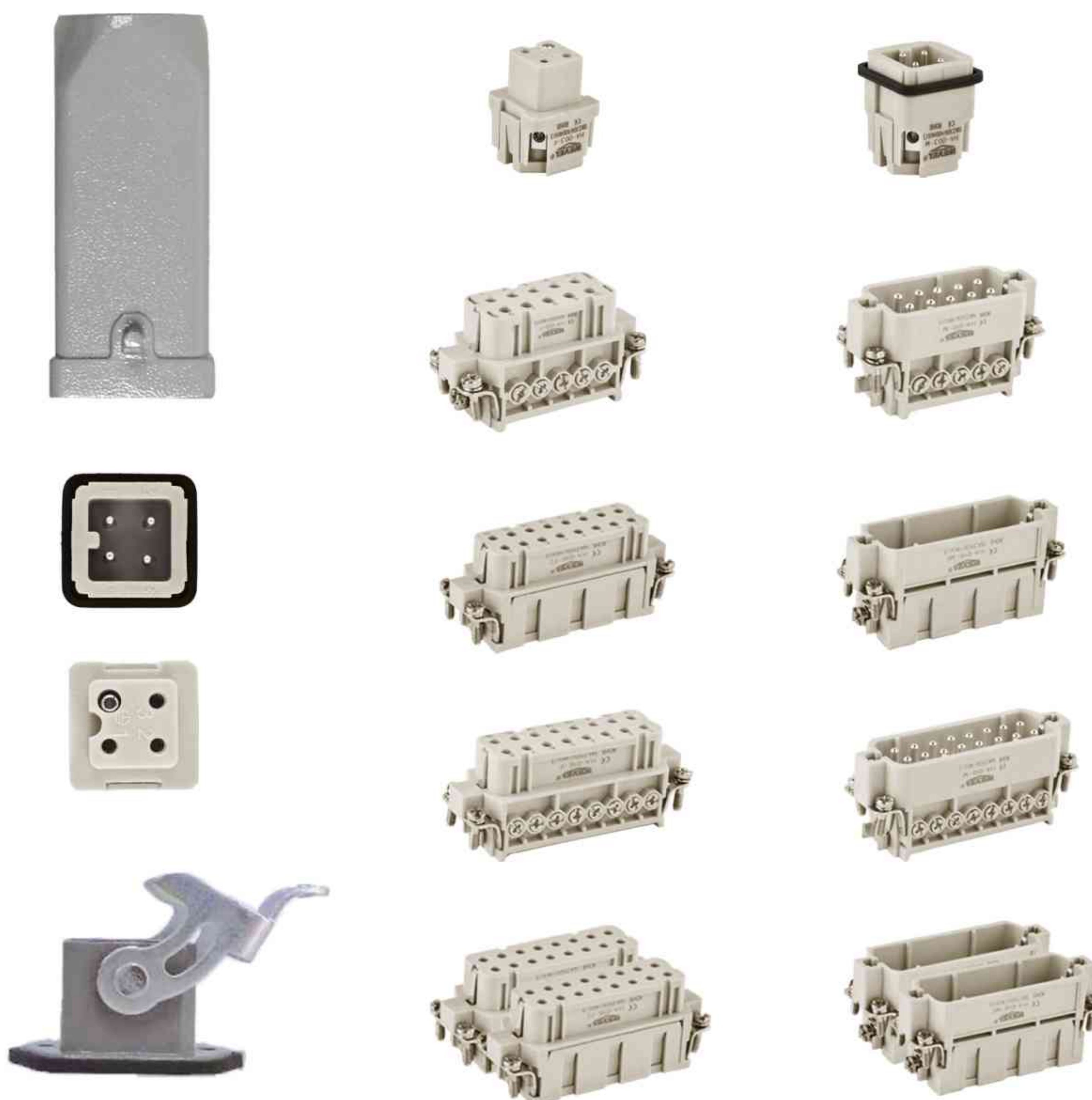


With wire protection



Without wire protection





Compact standard connector

HA technical characteristics



HA

HA Series Technical Characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

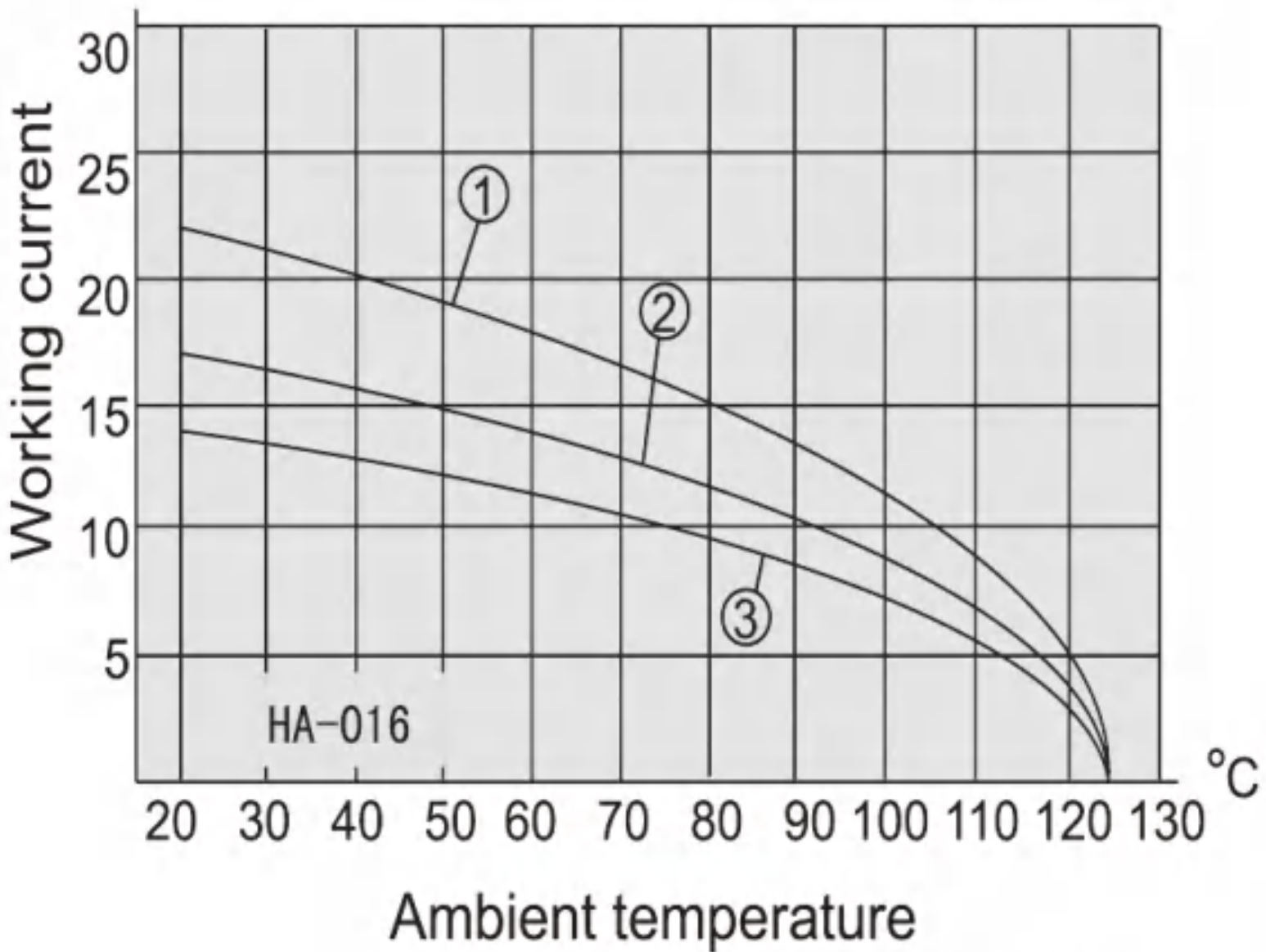
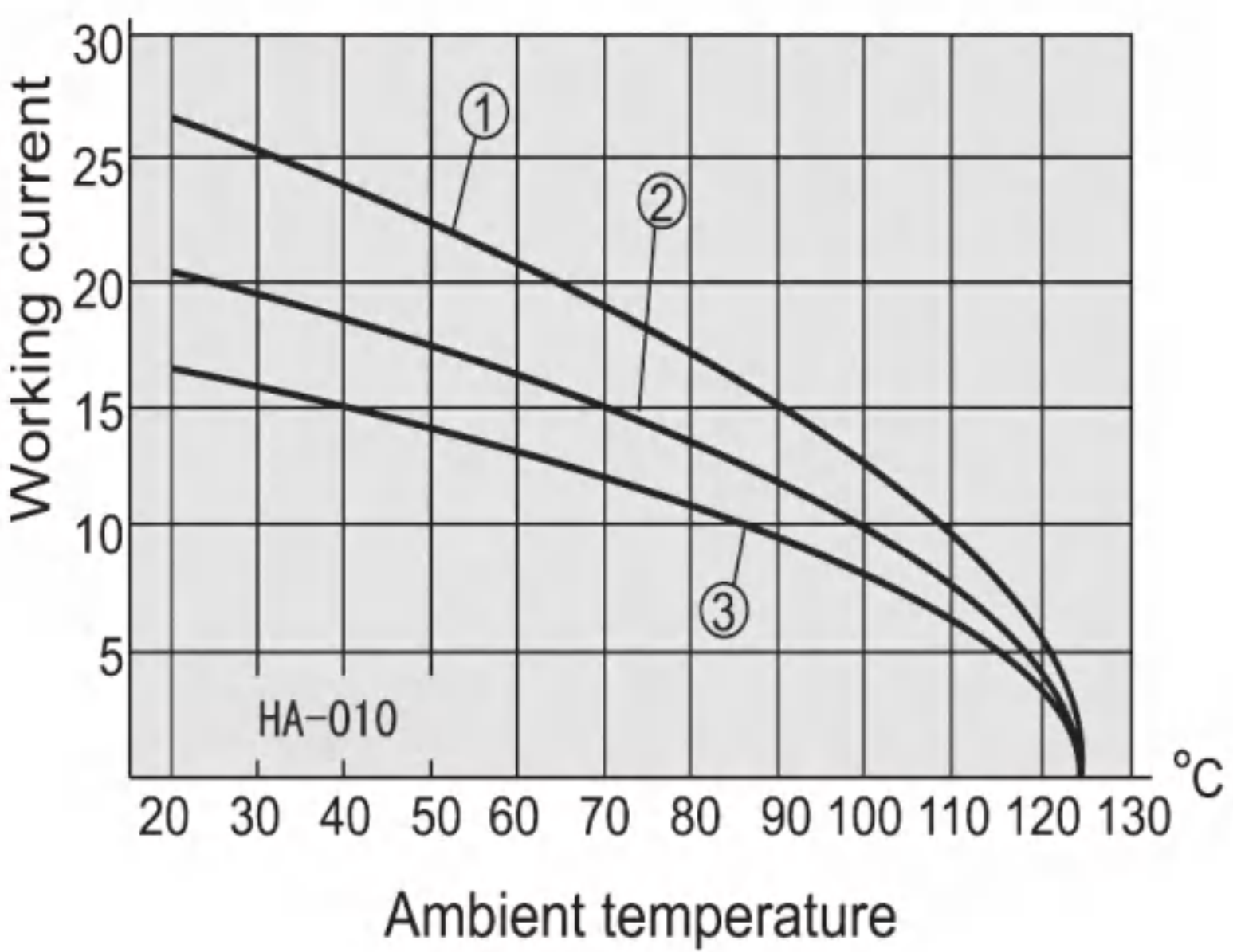
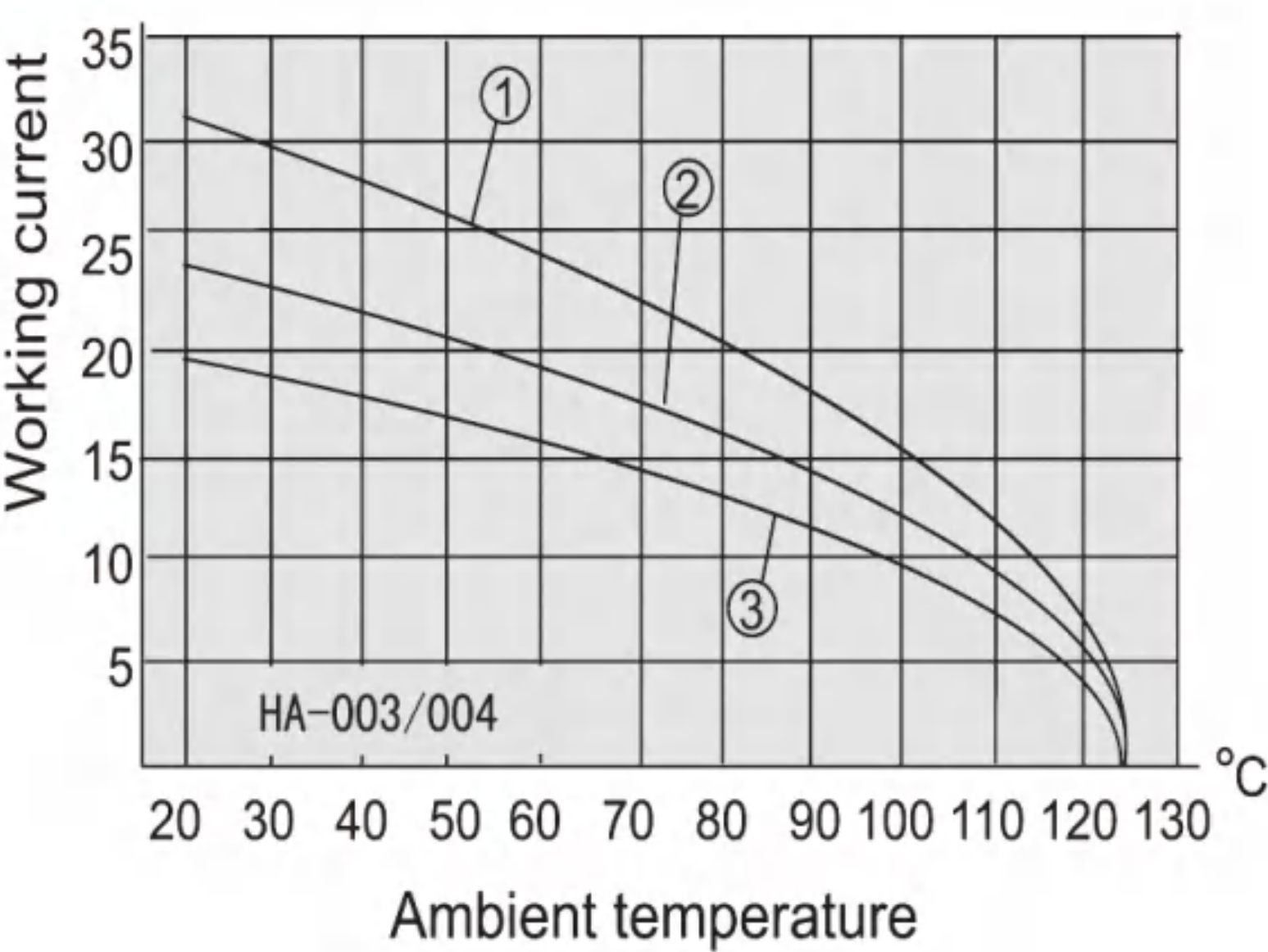
DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inserts

Number of contacts	3,4,10,16,32(2x16)
HA-003/004	+PE
Working current	
See current carrying capacity	10A
working voltage	
-Pollution degree 2	230/400V
HA-010/016	
working current	
See current carrying capacity	16A
Working voltage	250V
Pollution degree	3
Rated impulse voltage	4KV
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600V
Mechanical working life(mating cycles)	≥ 500

Contacts

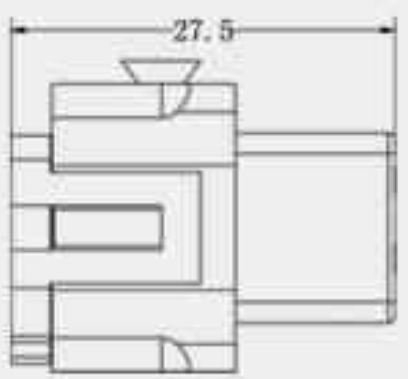
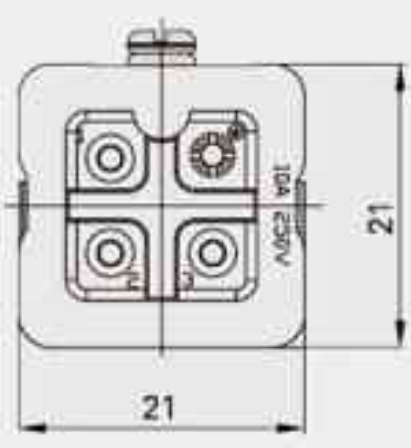
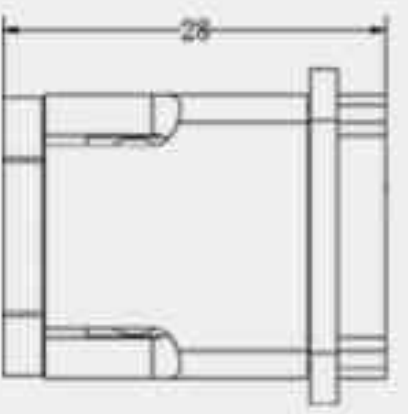
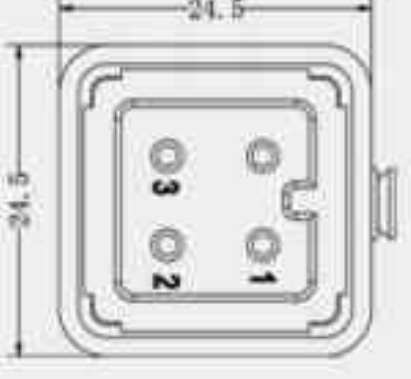
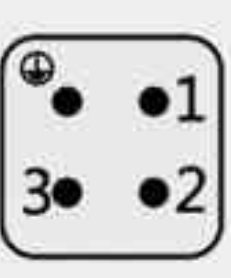
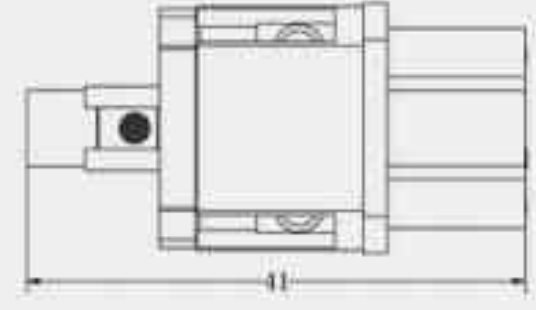
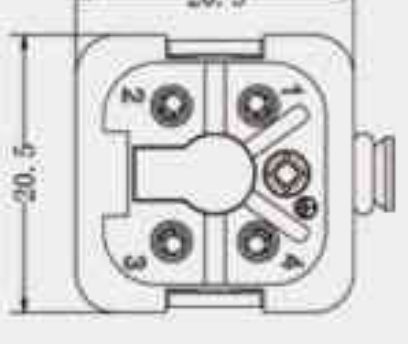
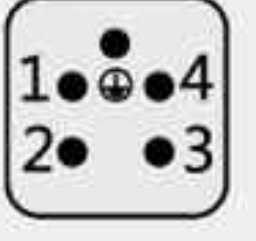
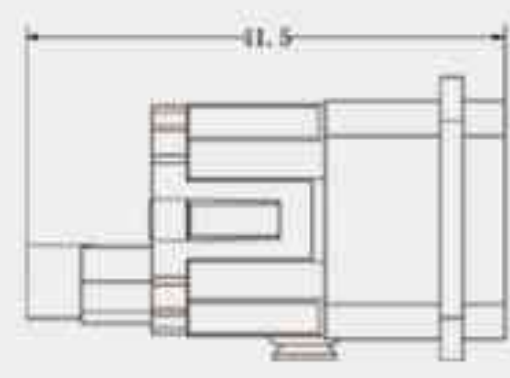
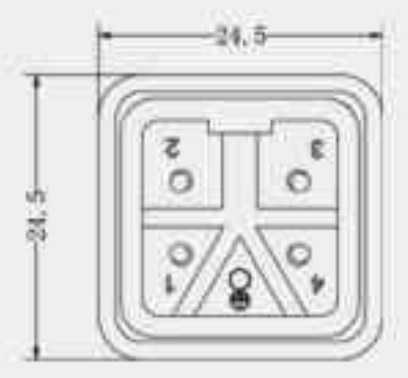
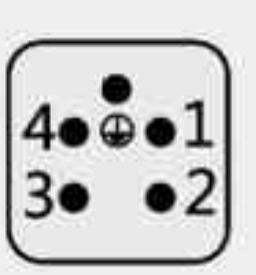
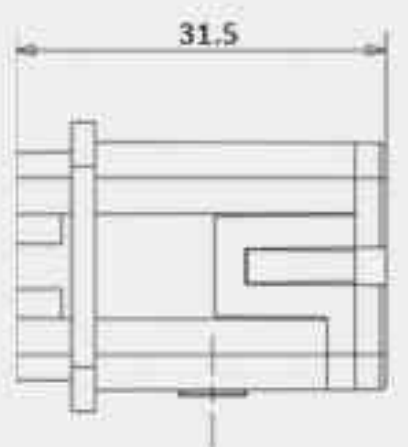
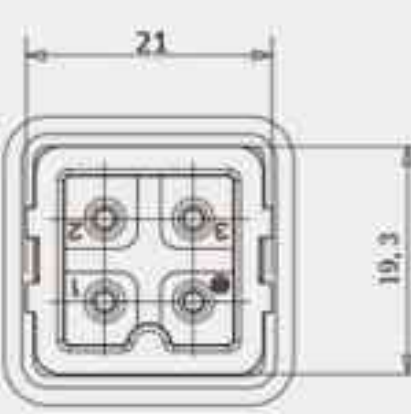
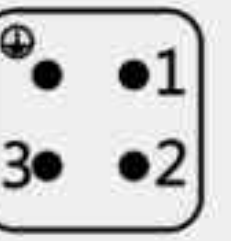
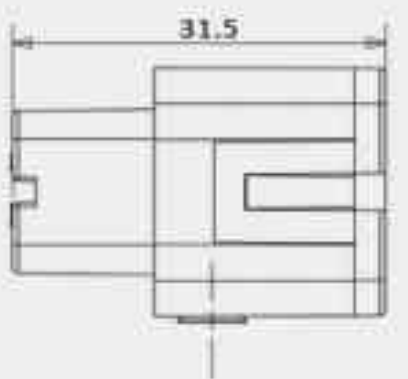
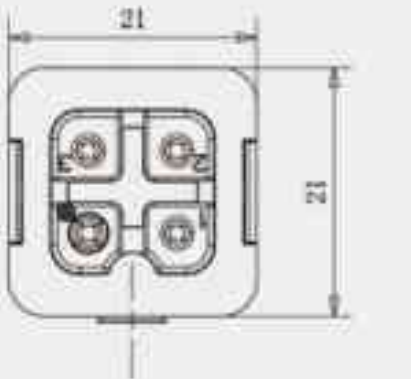
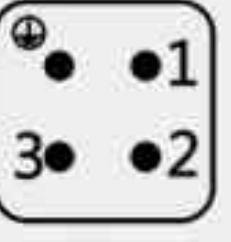
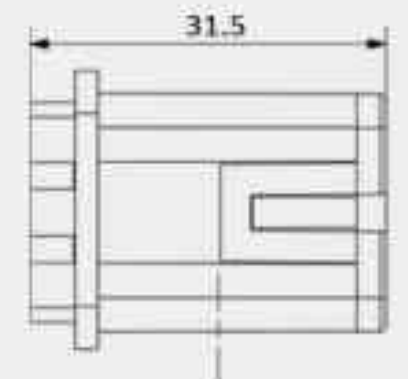
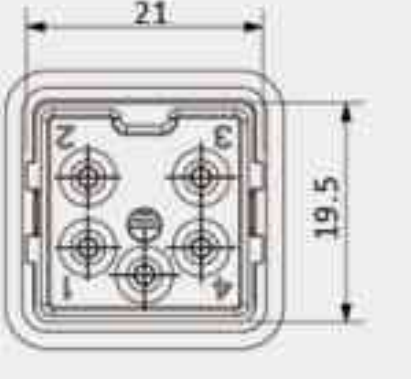
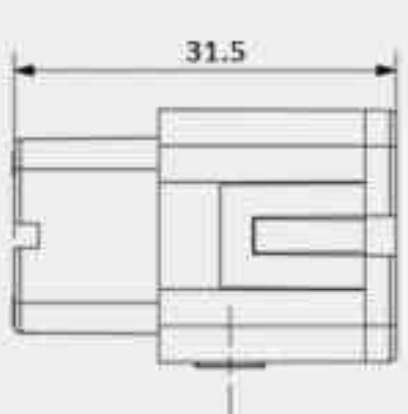
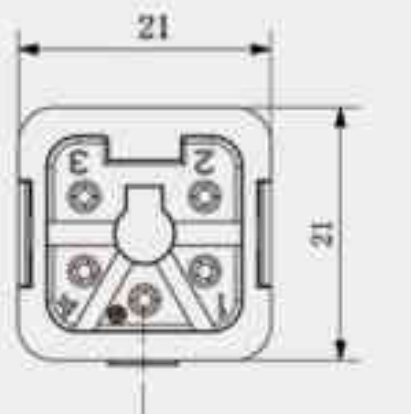
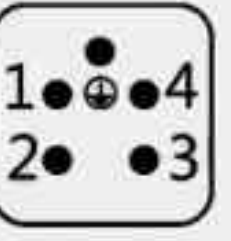
Material	Copper alloy
Surface	Hard silver-plated Hard gold-plated
Contact resistance	$\leq 1m\Omega$ or $3m\Omega$
Wiring method	
Screw connection	
Wire gauge	1.0-2.5mm ² AWG 18-14
Tightening torque	0.25Nm(HA-003/004) or 0.5Nm(HA-010/016)
Crimp connection	
Wire gauge	0.14-4.0mm ² AWG 26-12
Spring connect	
Wire gauge	0.14-2.5mm ² AWG26-14



- ① Wire gauge: 2.5mm²
- ② Wire gauge: 1.5mm²
- ③ Wire gauge: 1.0mm²

HA-3/4+

For **H3A**, Hood/Housing Please Refer Page No. 134-139

Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection  	HA-003-M	3 003 010 10 101	F	  
	HA-003-F	3 003 010 10 102	M	  
	HA-004-M	3 004 010 10 101	F	  
	HA-004-F	3 004 010 10 102	M	  
Spring connect  	HA-003-MS	3 003 010 90 101	M	  
	HA-003-FS	3 003 010 90 102	F	  
	HA-004-MS	3 004 010 90 101	M	  
	HA-004-FS	3 004 010 90 102	F	  

HA

HA-10+

For **H10A**,Hood/Housing Please Refer Page No. 140-141**HA**

Identification

Type

Order No.

Drawing

Dimensions mm

Screw connection



HA-010-M

3 010 010 10 101

HA-010-F

3 010 010 10 102

Crimp connection



HA-010-MC

3 010 010 20 101

HA-010-FC

3 010 010 20 102

Spring connect

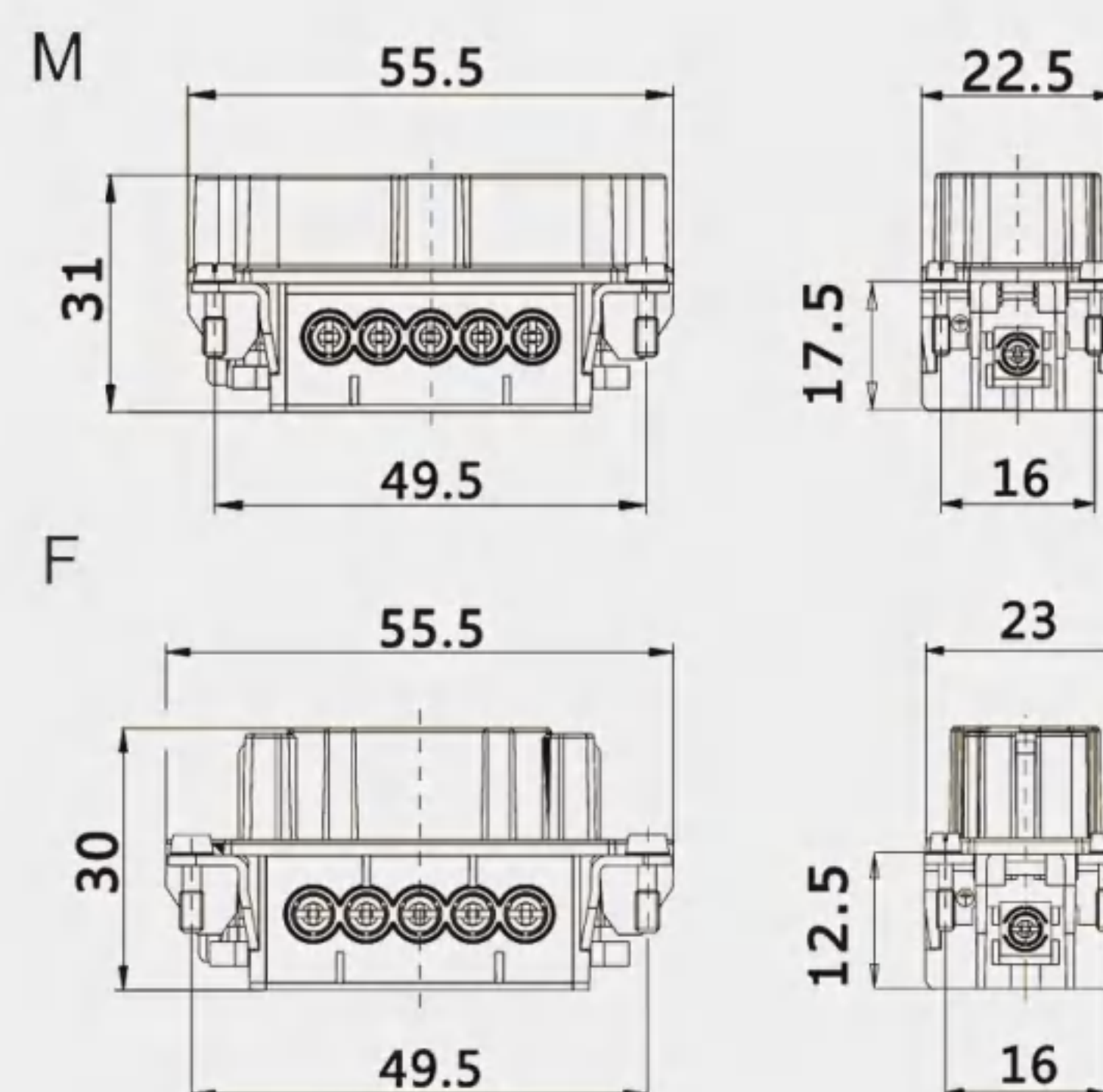


HA-010-MS

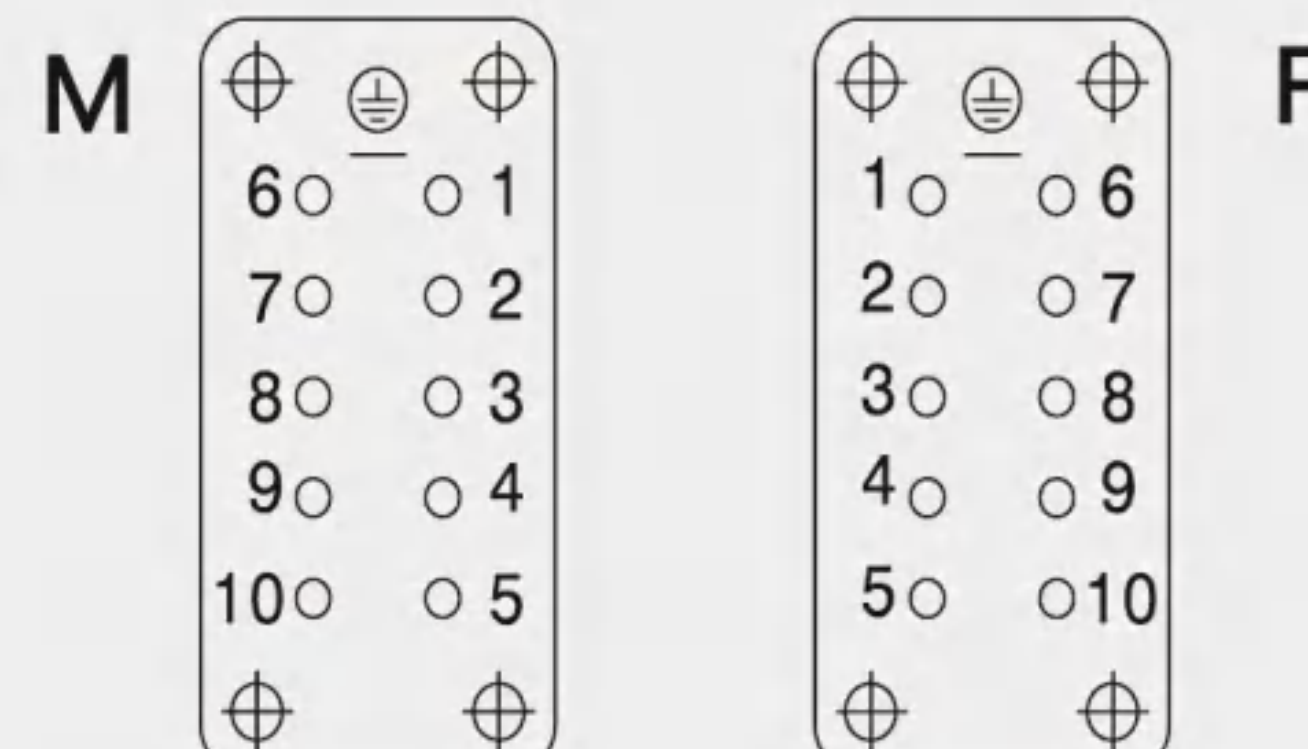
3 010 010 30 101

HA-010-FS

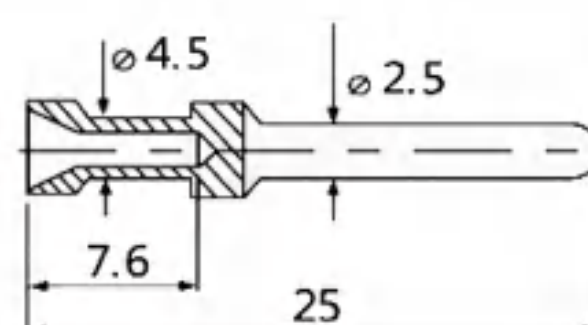
3 010 010 30 102



Maximum distance between inserts 24mm

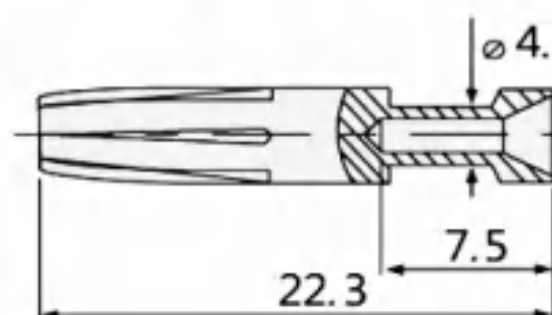
**16A Crimp contacts**

Male crimp contacts



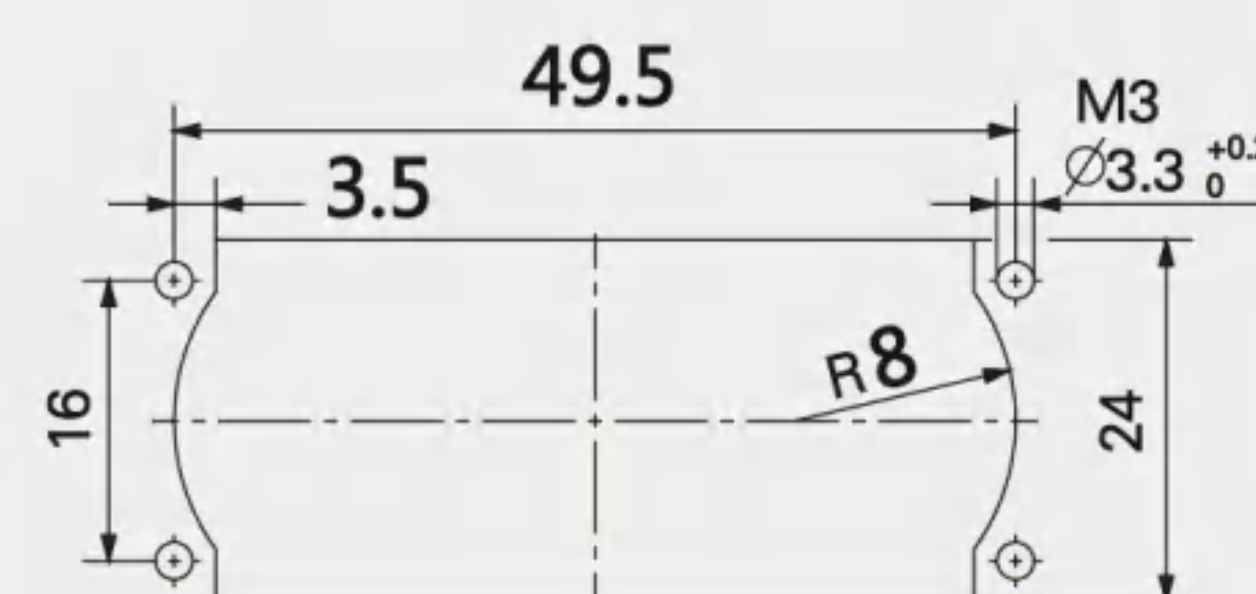
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

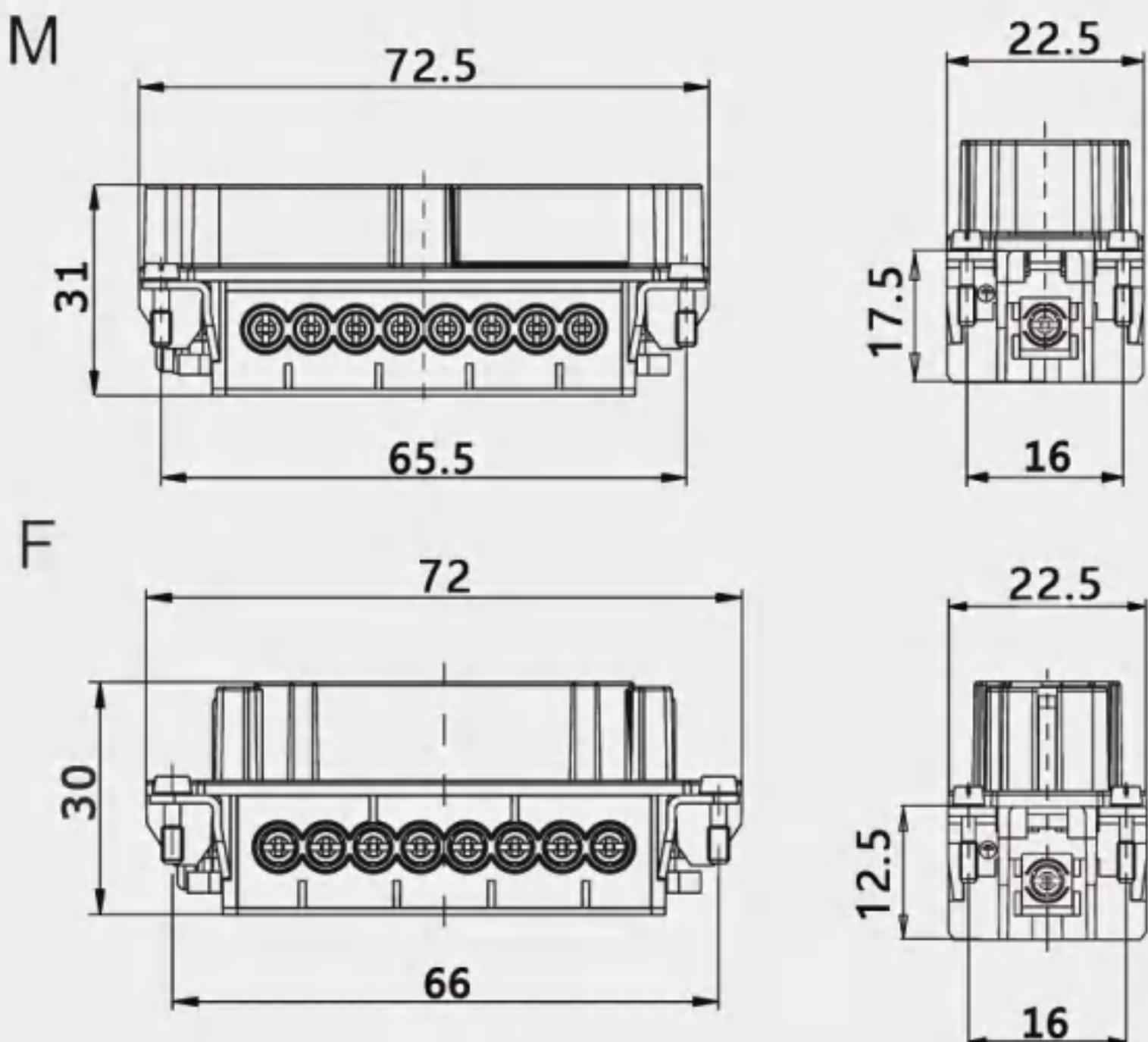
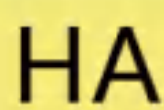
Contacts arrangement view from termination side



Panel cutout drawing

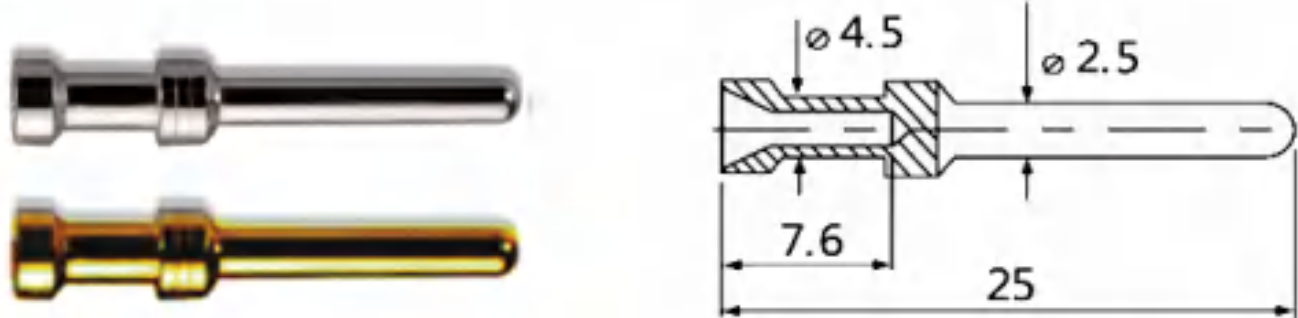
HA-16+

For **H16A**,Hood/Housing Please Refer Page No. 142-143

Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection 	HA-016-M	3 016 010 10 101		
	HA-016-F	3 016 010 10 102		
Crimp connection 	HA-016-MC	3 016 010 20 101		
	HA-016-FC	3 016 010 20 102		

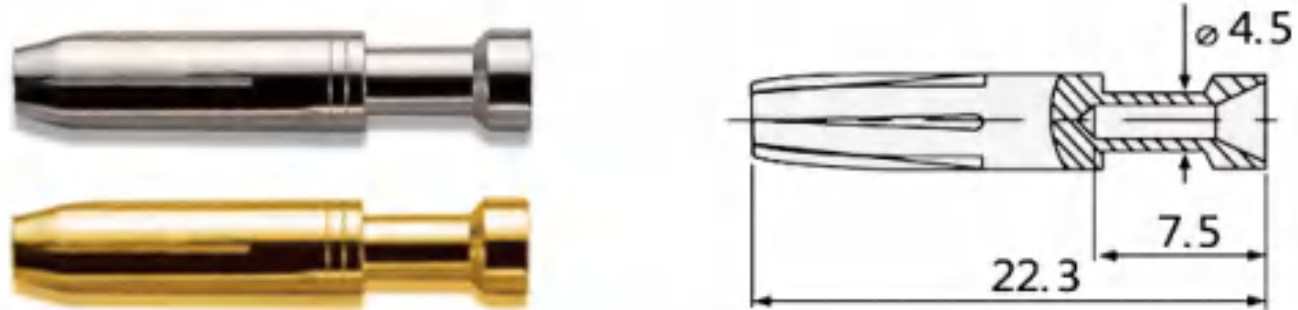
16A Crimp contacts

Male crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

Maximum distance between inserts 24mm

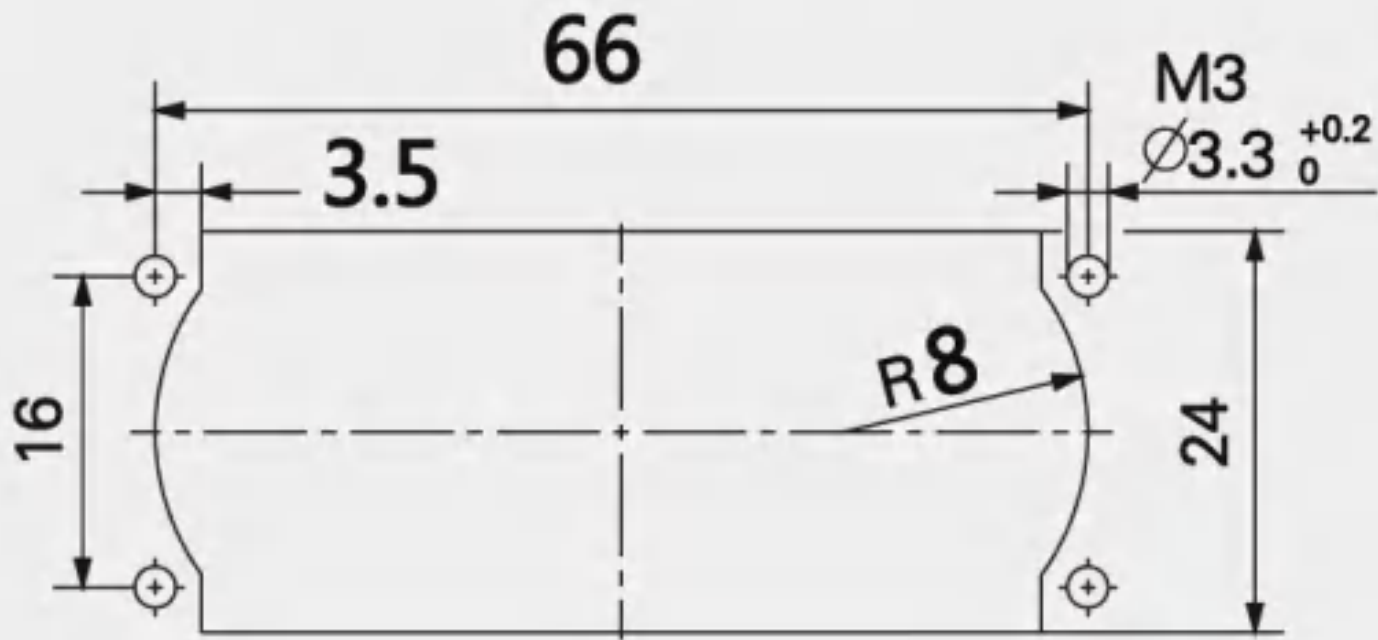
M

9	1
10	2
11	3
12	4
13	5
14	6
15	7
16	8

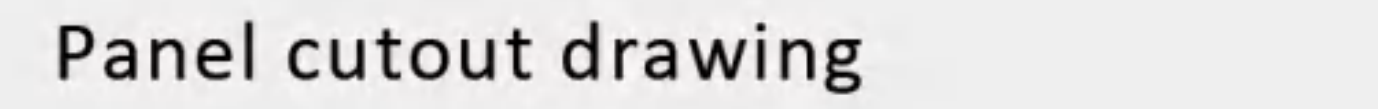
F

1	9
2	10
3	11
4	12
5	13
6	14
7	15
8	16

Contacts arrangement view from termination side



Panel cutout drawing



HA-32+

For H32A, Hood/Housing Please Refer Page No. 144-145

HA

Identification

Type

Order No.

Drawing

Dimensions mm

Screw connection



HA-016-M

3 016 010 10 101

HA-032-M(17-32)

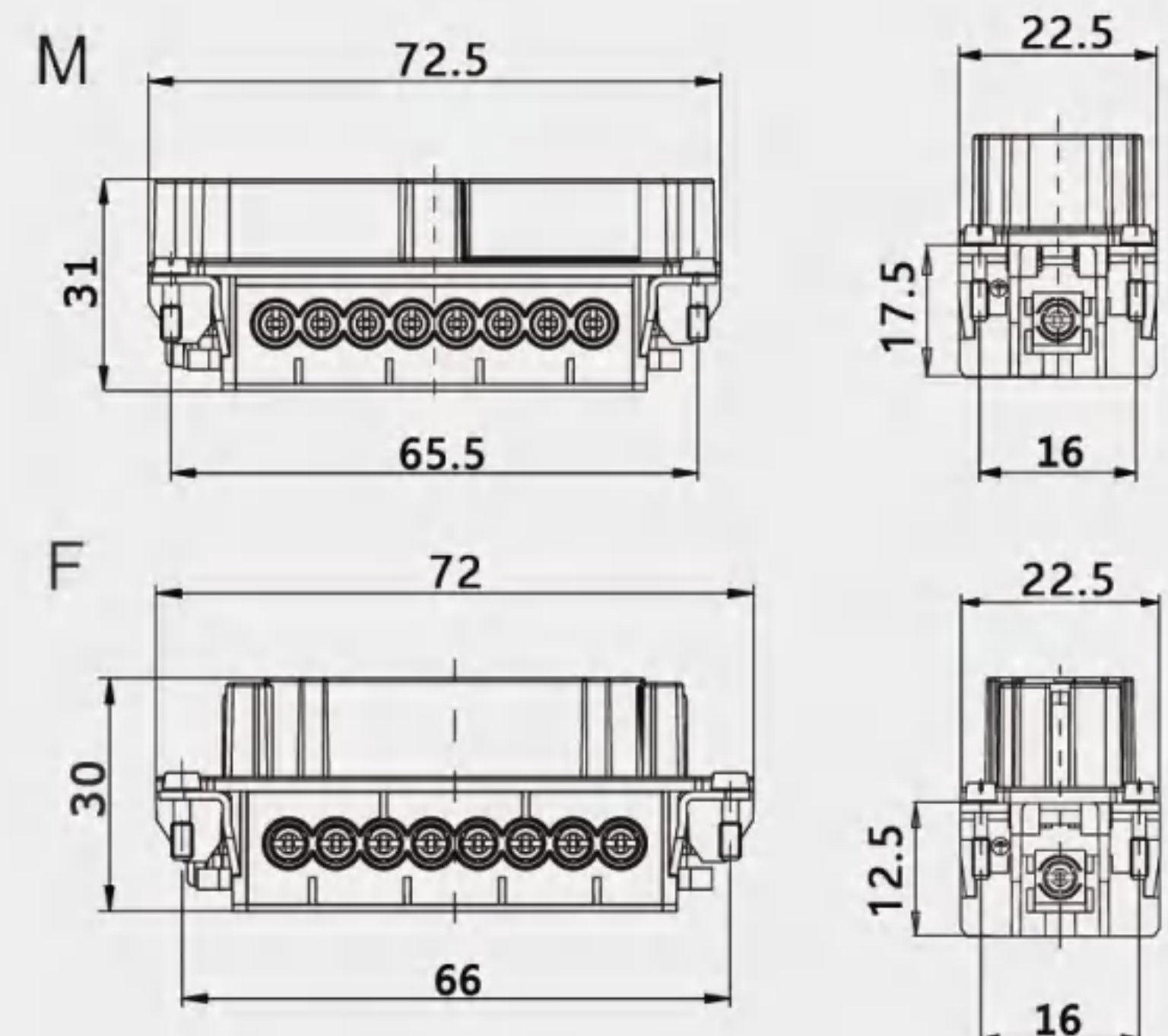
3 032 010 10 101

HA-016-F

3 016 010 10 102

HA-032-F(17-32)

3 032 010 10 102



Crimp connection



HA-016-MC

3 016 010 20 101

HA-032-MC(17-32)

3 032 010 20 101

HA-016-FC

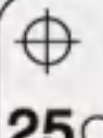
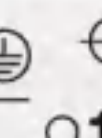
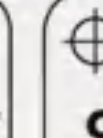
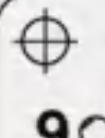
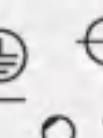
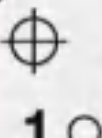
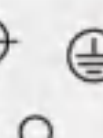
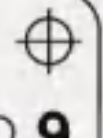
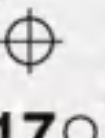
3 016 010 20 102

HA-032-FC(17-32)

3 032 010 20 102

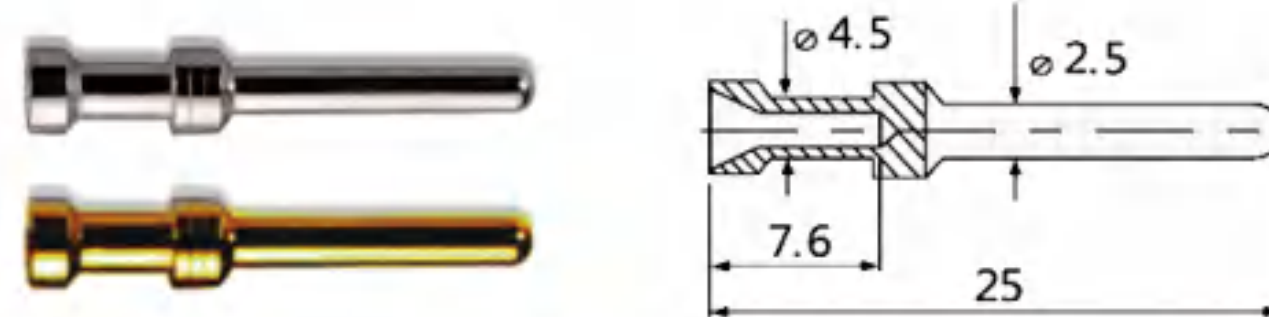
Maximum distance between inserts 24mm

M**F**

									
25	17	9	1	1	9	17	25	17	25
26	18	10	2	2	10	18	26	18	26
27	19	11	3	3	11	19	27	19	27
28	20	12	4	4	12	20	28	20	28
29	21	13	5	5	13	21	29	21	29
30	22	14	6	6	14	22	30	22	30
31	23	15	7	7	15	23	31	23	31
32	24	16	8	8	16	24	32	24	32

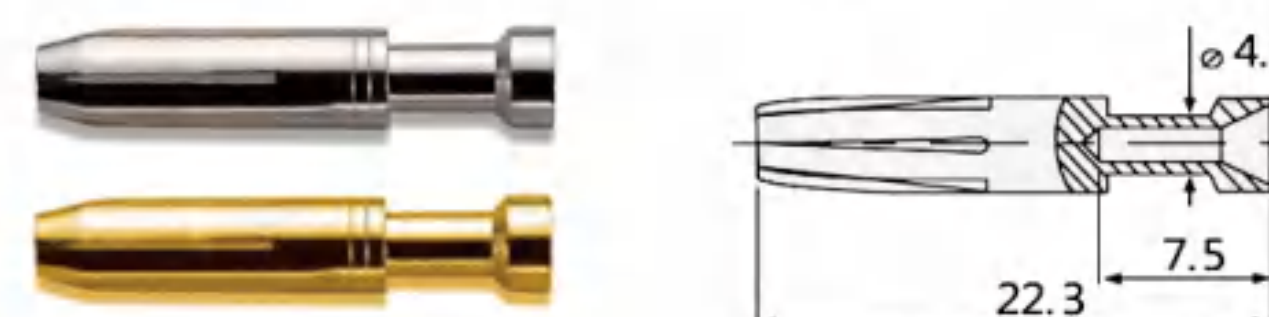
16A Crimp contacts

Male crimp contacts



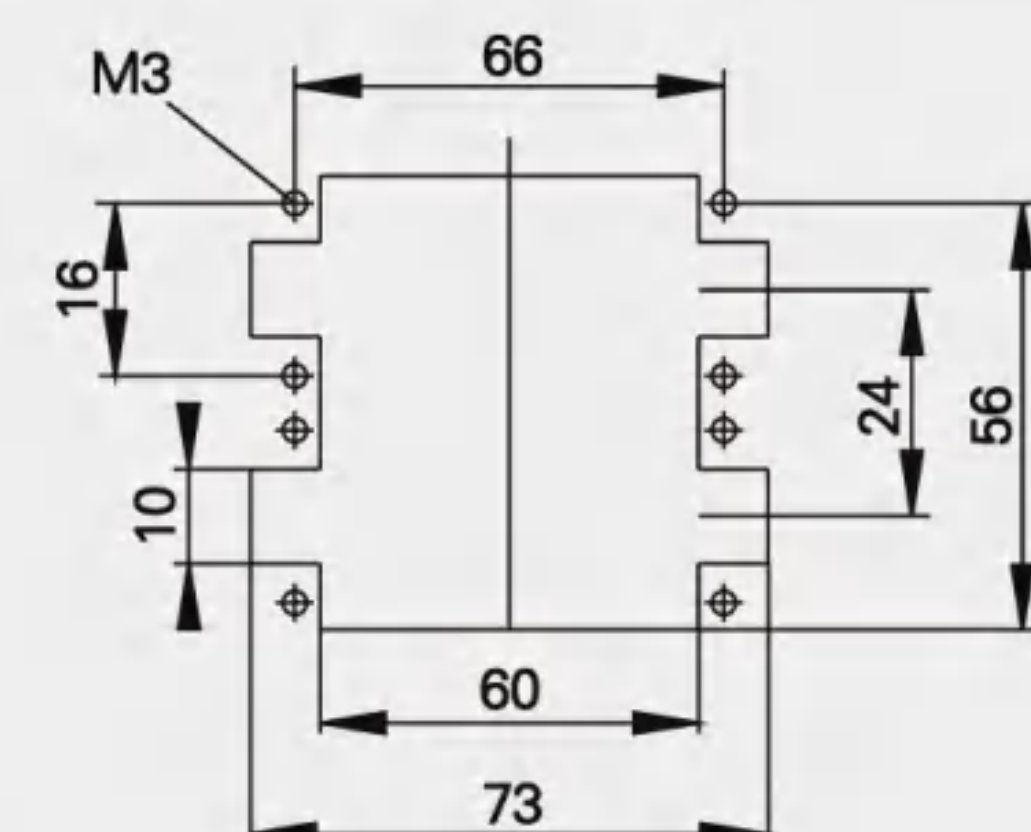
Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts

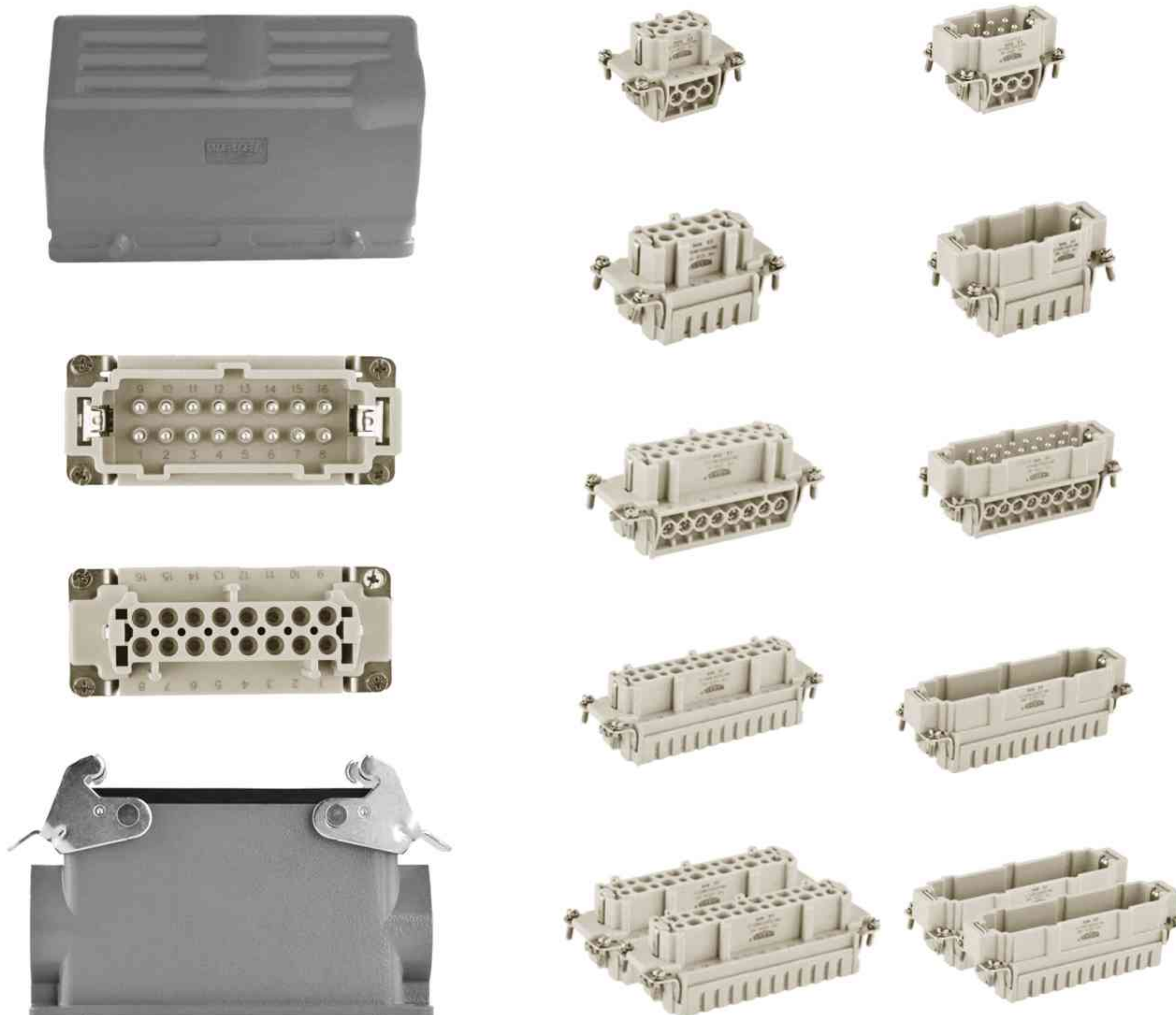


Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

Contacts arrangement view from termination side



Panel cutout drawing



The most common standard type product

HE technical characteristics



HE technical characteristics

Control and test procedures according to DIN IEC 60512-3

HE

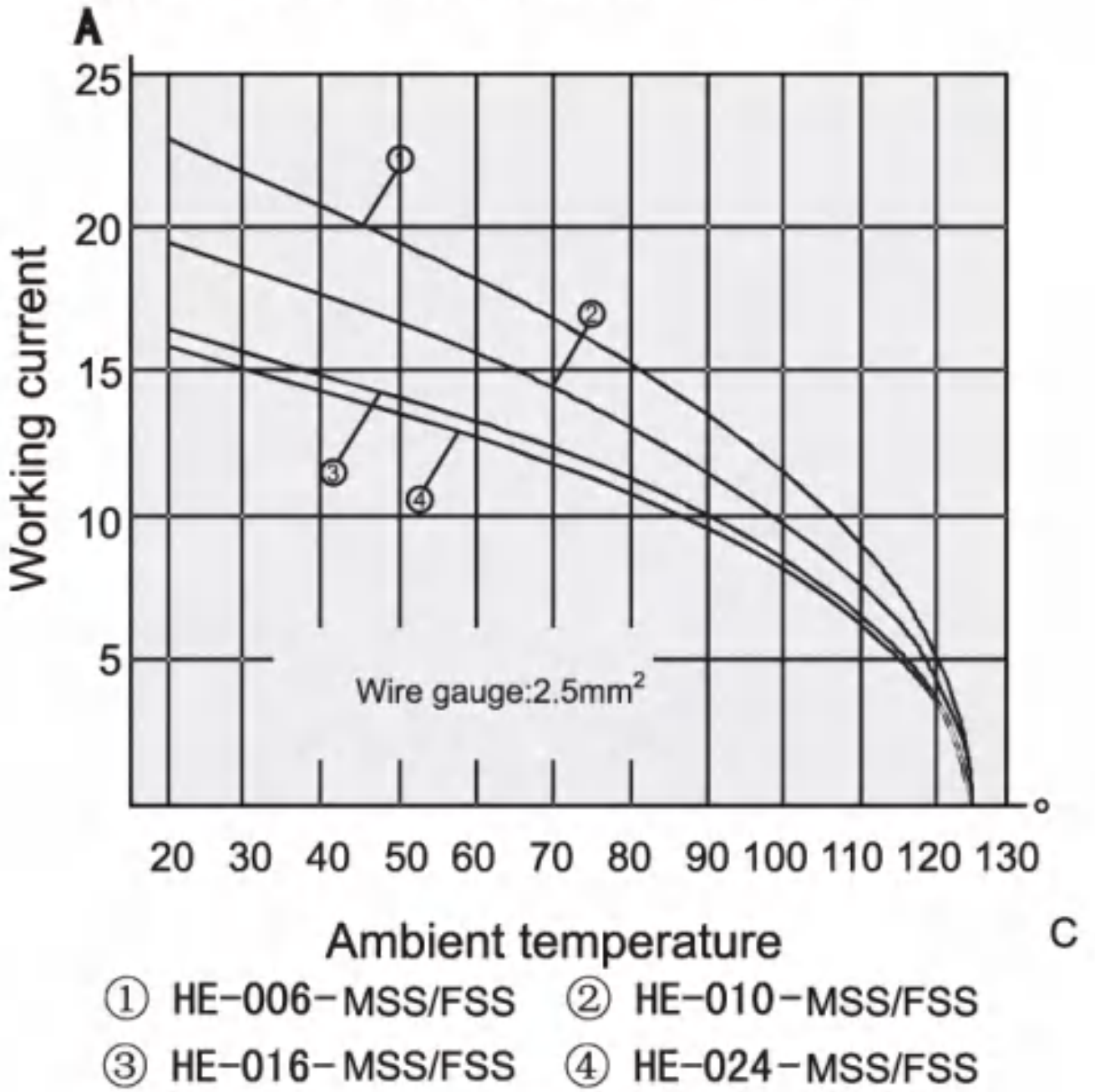
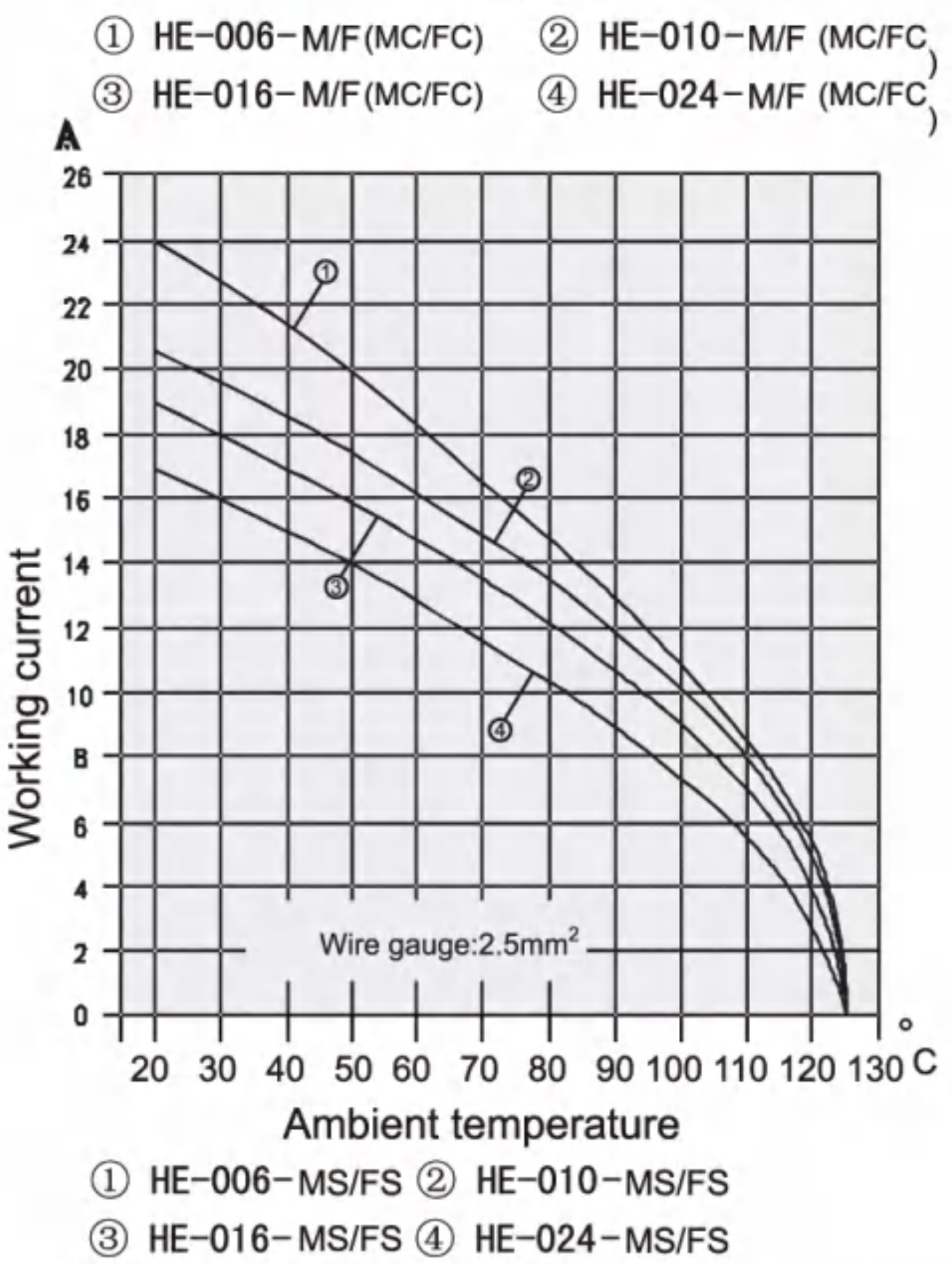
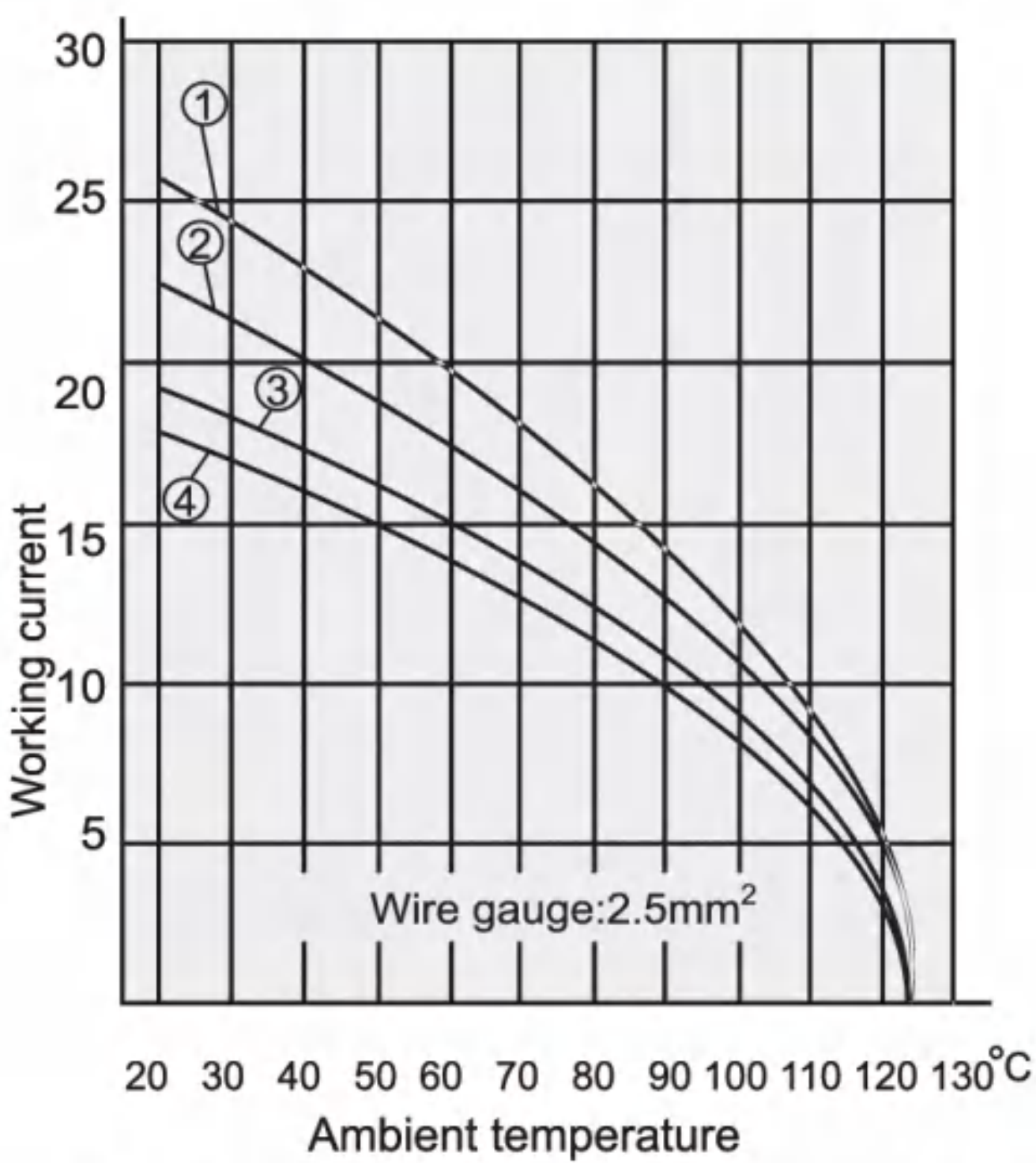
Current carrying capacity

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

Specifications

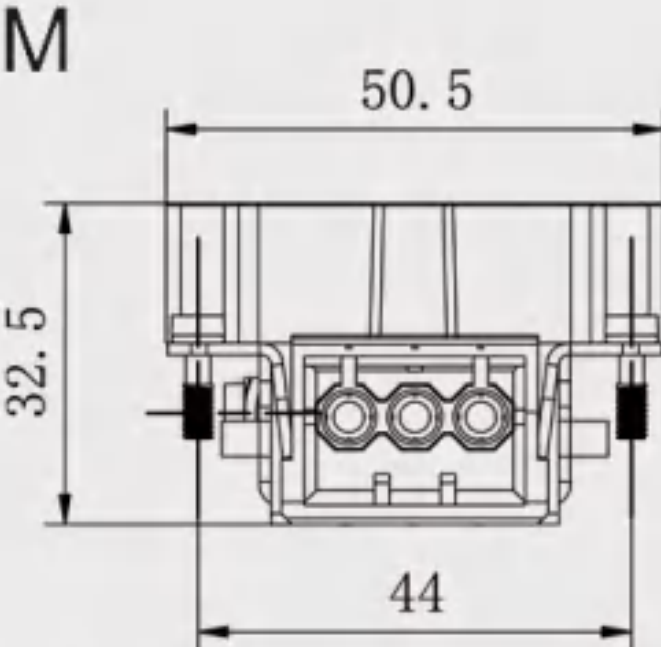
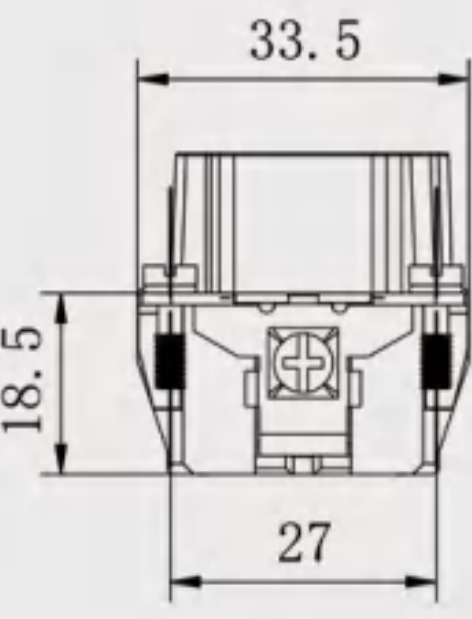
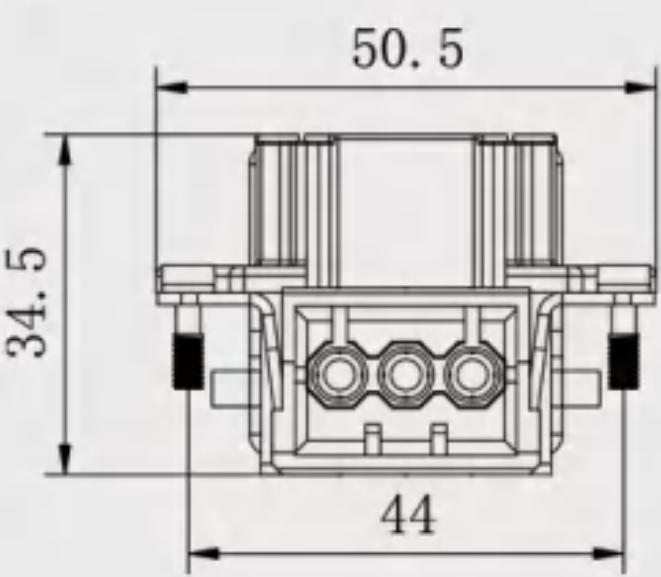
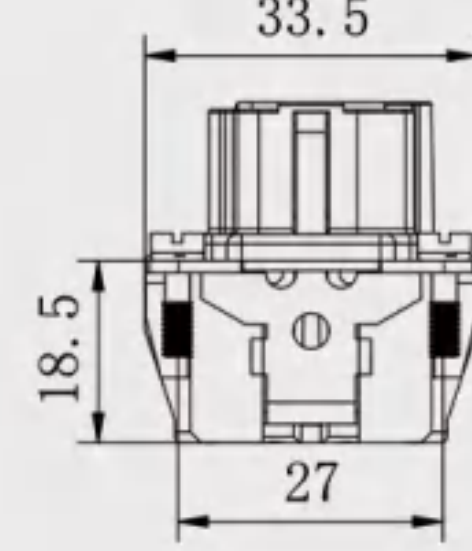
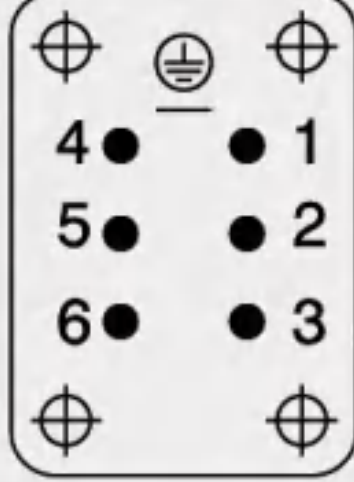
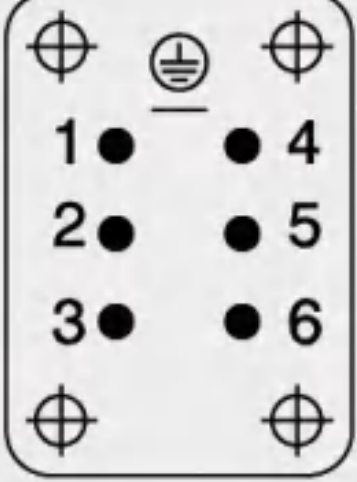
DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inserts	
Number of contacts	6,10,16,24,32(2x16) 48(2x24)+PE
Working current See current carrying capacity	16A
Working voltage	500V
Pollution degree	3
Rated impulse voltage	6KV
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600V
Mechanical working life(mating cycles)	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard silver-plated Hard gold-plated
Contact resistance	$\leq 1m \Omega$
Wiring method	
Screw connection	
Wire gauge	0.75-2.5mm ² AWG 18-14
Screw terminal tightening	0.5Nm
Stripping length	7.0mm
Crimp connection	
Wire gauge	0.14-4.0 mm ² AWG 26-12
Stripping length	7.5mm
Spring connect	
Wire gauge	0.14-2.5 mm ² AWG 26-14
Stripping length	7-9mm



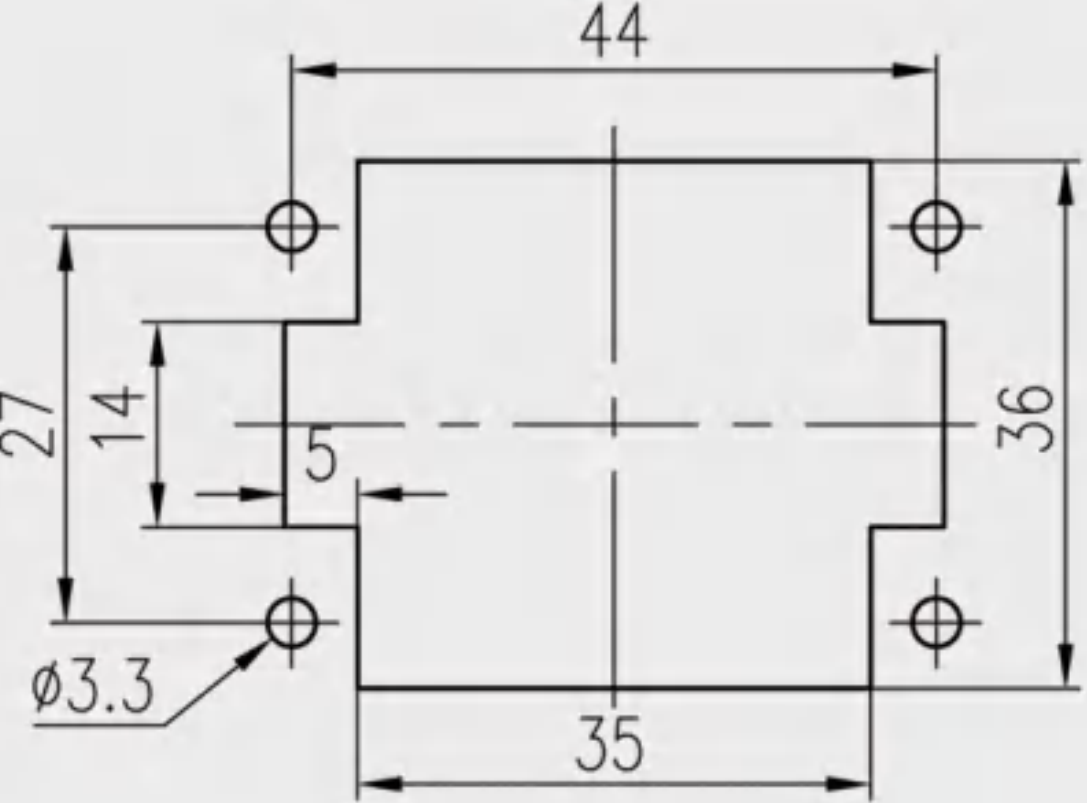
HE-6+

For H6B,Hood/Housing Please Refer Page No. 146-155

Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection	HE-006-M	3 006 020 10 101		
	HE-006-F	3 006 020 10 102		
Crimp connection	HE-006-MC	3 006 020 20 101		
	HE-006-FC	3 006 020 20 102		
Spring connect	HE-006-MS	3 006 020 30 101		
	HE-006-FS	3 006 020 30 102		

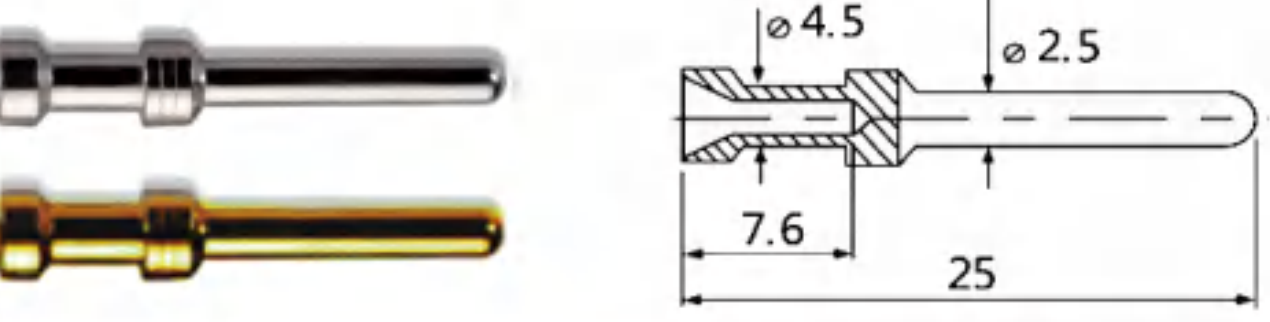
Maximum distance between inserts 21mm

Contacts arrangement view from termination side



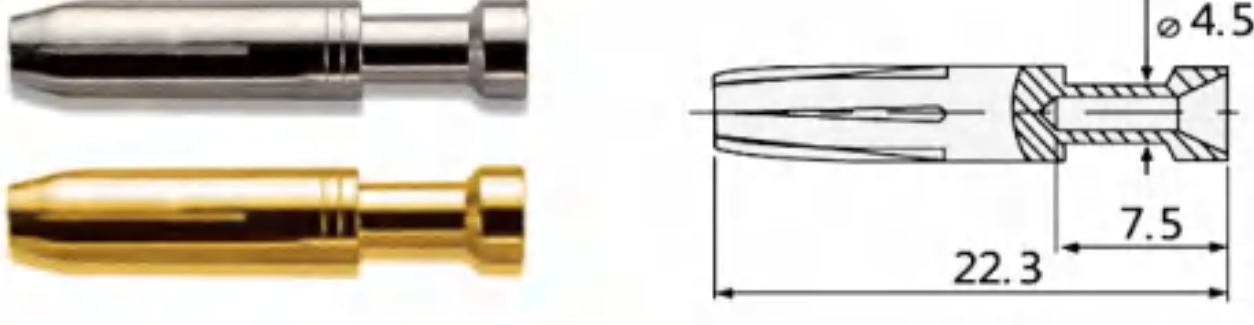
16A Crimp contacts

Male crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

HE-10+

For **H10B**,Hood/Housing Please Refer Page No. 156-170

HE

Identification

Type

Order No.

Drawing

Dimensions mm

Screw connection



HE-010-M

3 010 020 10 101

HE-010-F

3 010 020 10 102

Crimp connection



HE-010-MC

3 010 020 20 101

HE-010-FC

3 010 020 20 102

Spring connect



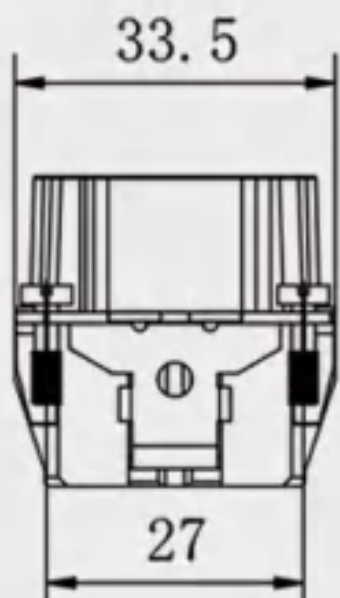
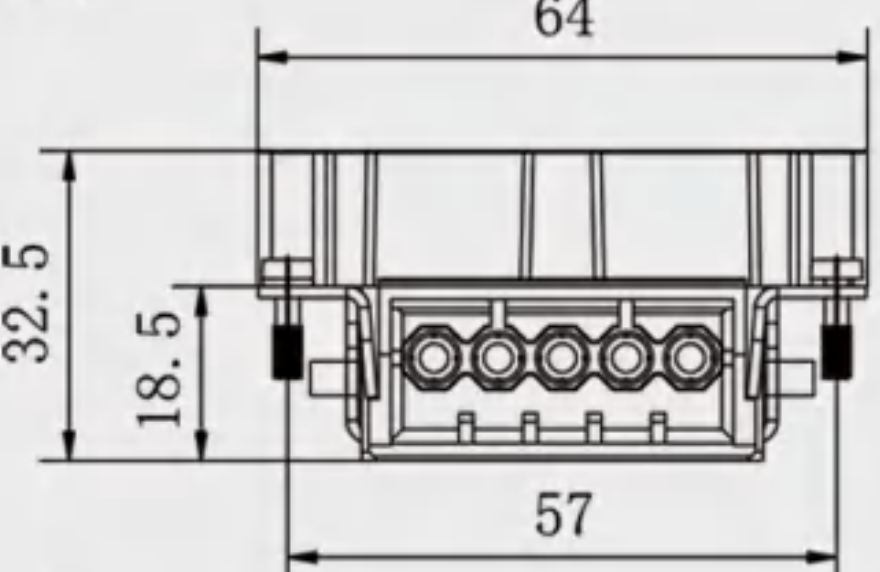
HE-010-MS

3 010 020 30 101

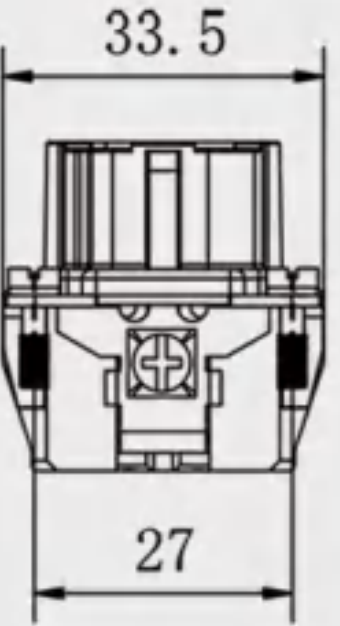
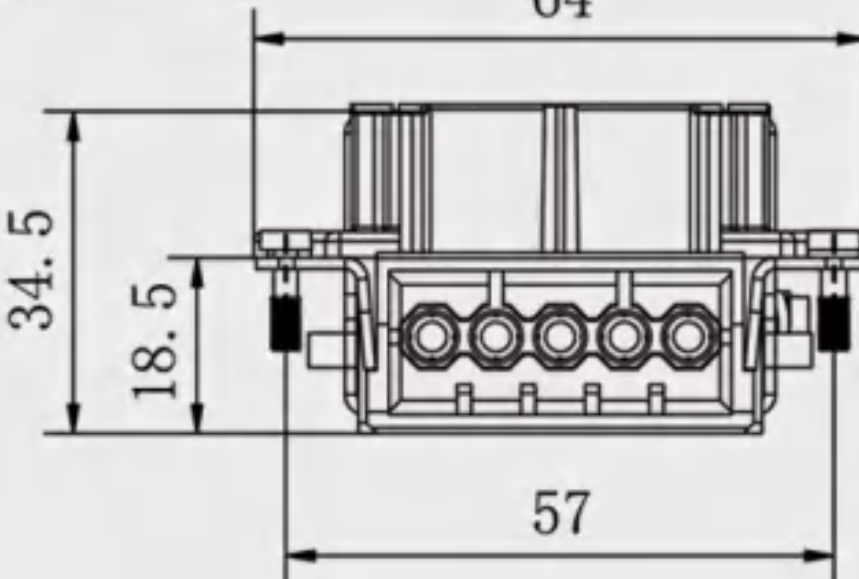
HE-010-FS

3 010 020 30 102

M

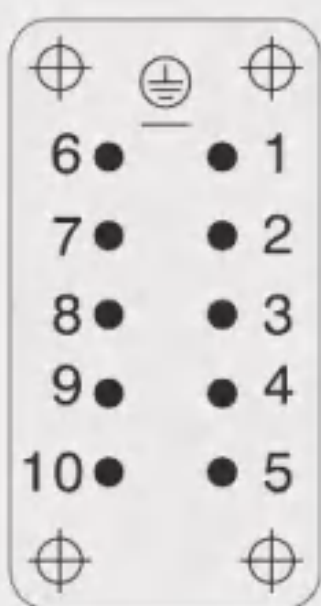


F



Maximum distance between inserts 21mm

M



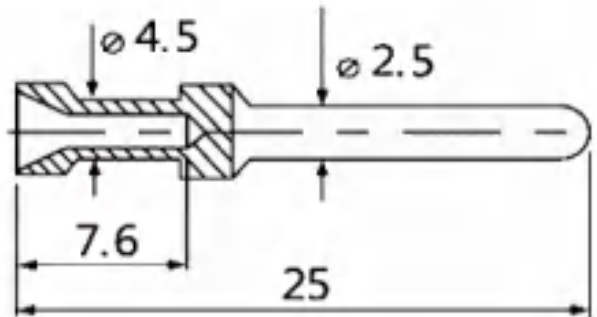
F



Contacts arrangement view from termination side

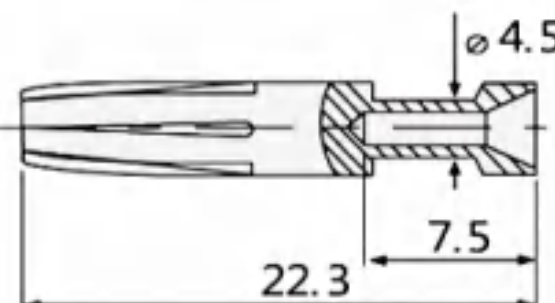
16A Crimp Contacts

Male crimp contacts

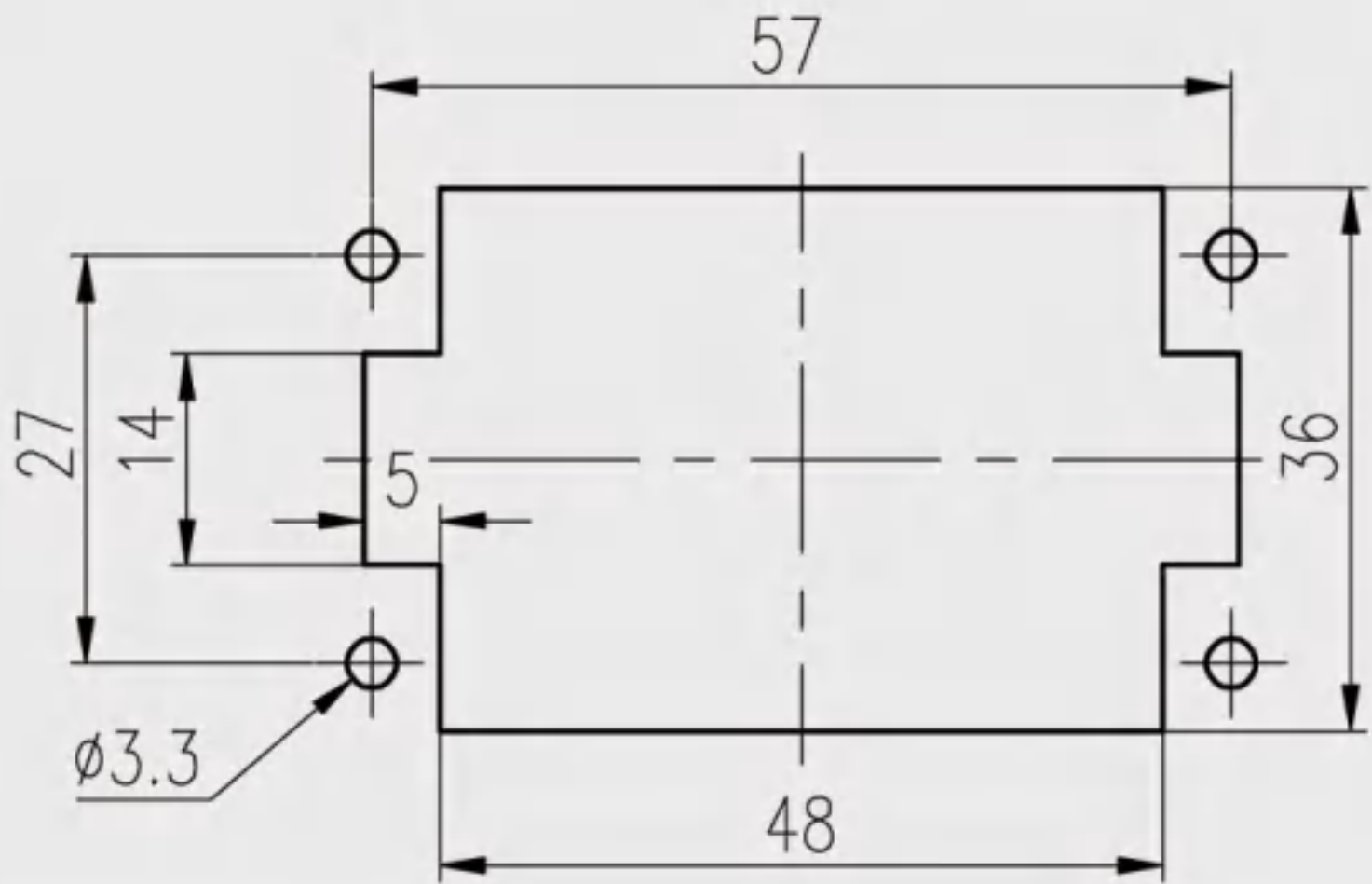


Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts



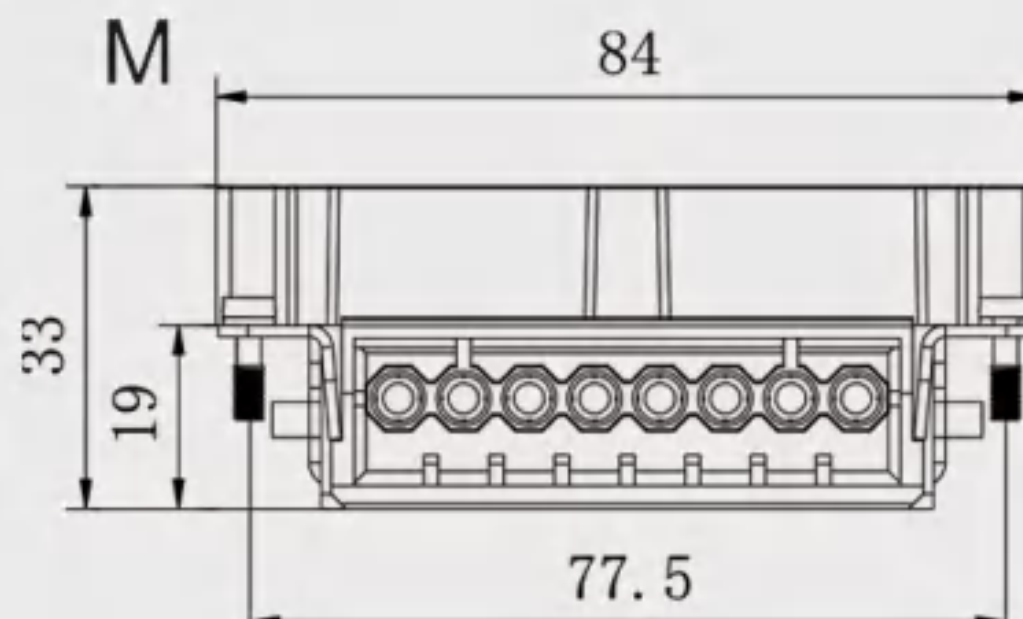
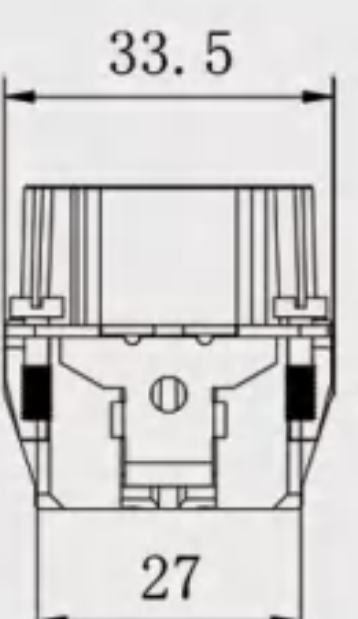
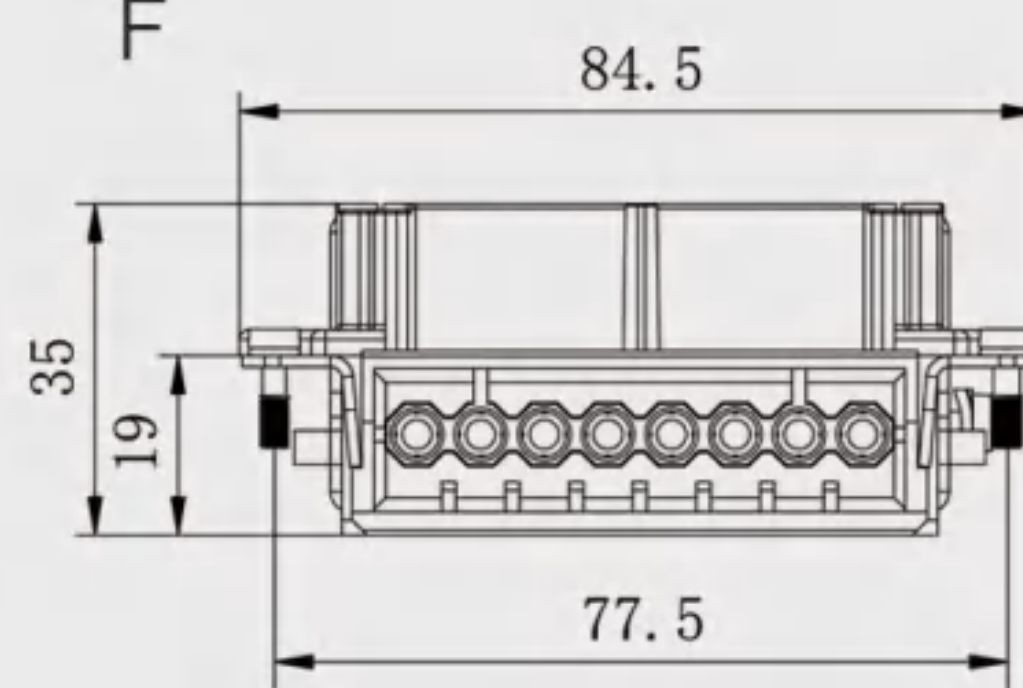
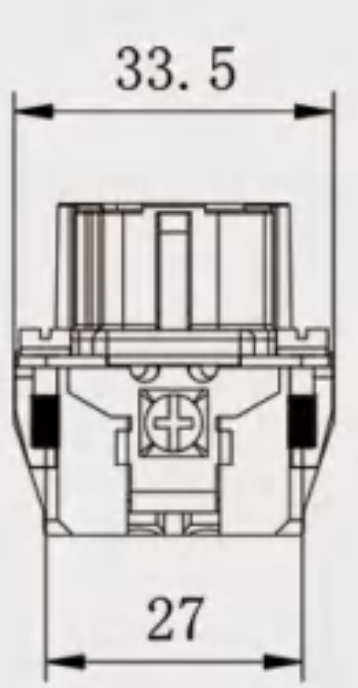
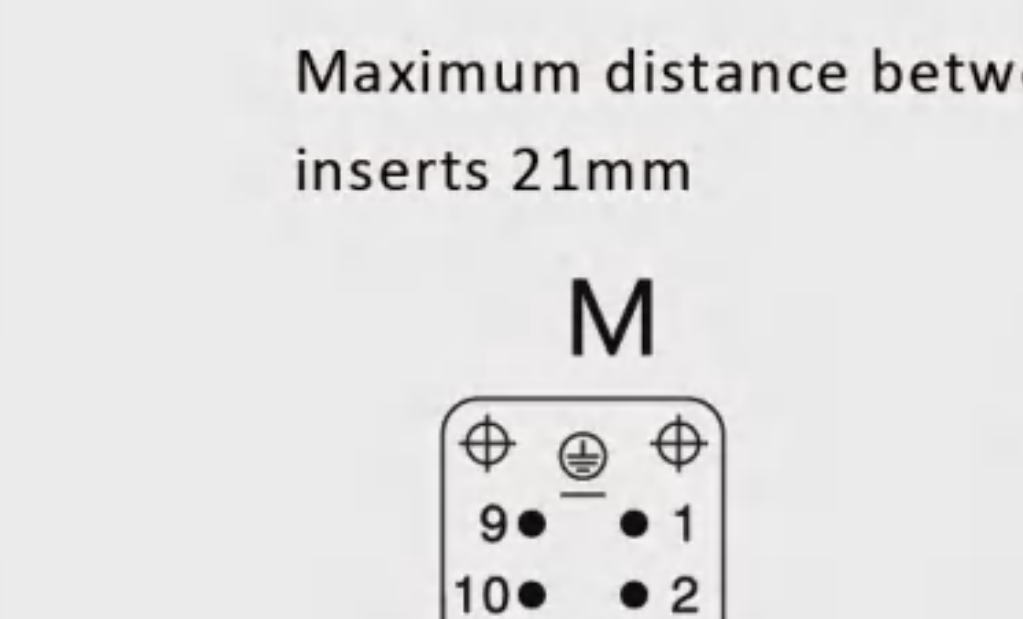
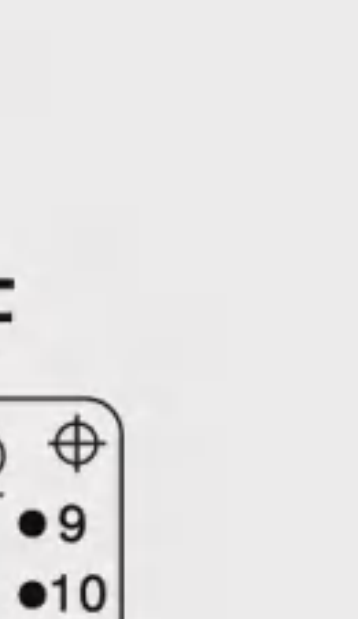
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400



Panel cutout drawing

HE-16+

For H16B,Hood/Housing Please Refer Page No. 171-185

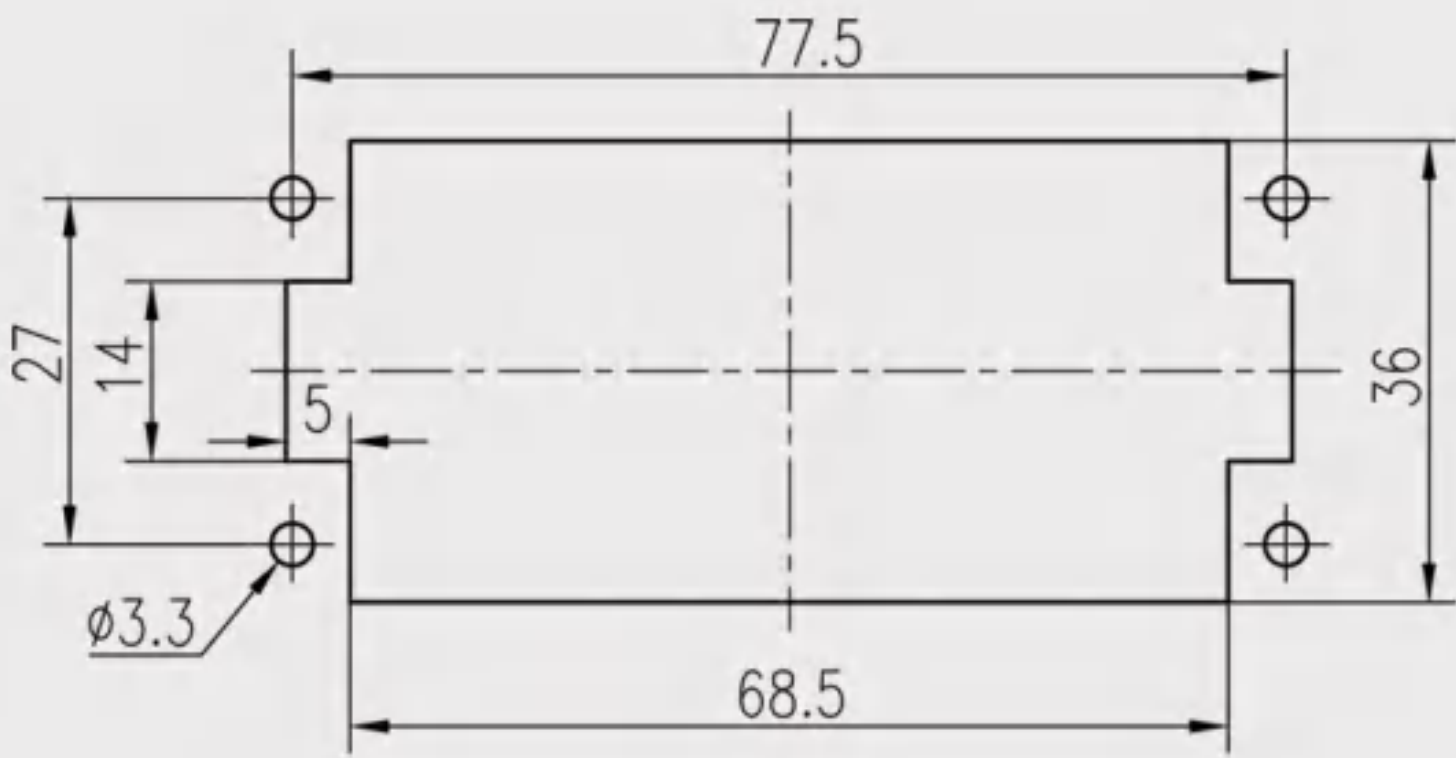
Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection	HE-016-M	3 016 020 10 101		
	HE-016-F	3 016 020 10 102		
Crimp connection	HE-016-MC	3 016 020 20 101		
	HE-016-FC	3 016 020 20 102		
Spring connect	HE-016-MS	3 016 020 30 101		
	HE-016-FS	3 016 020 30 102		

Maximum distance between inserts 21mm

M

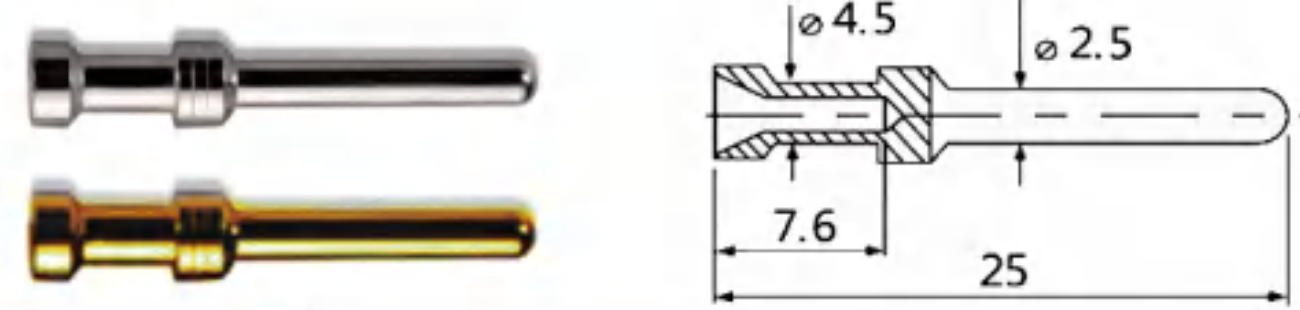
F

Contacts arrangement view from termination side



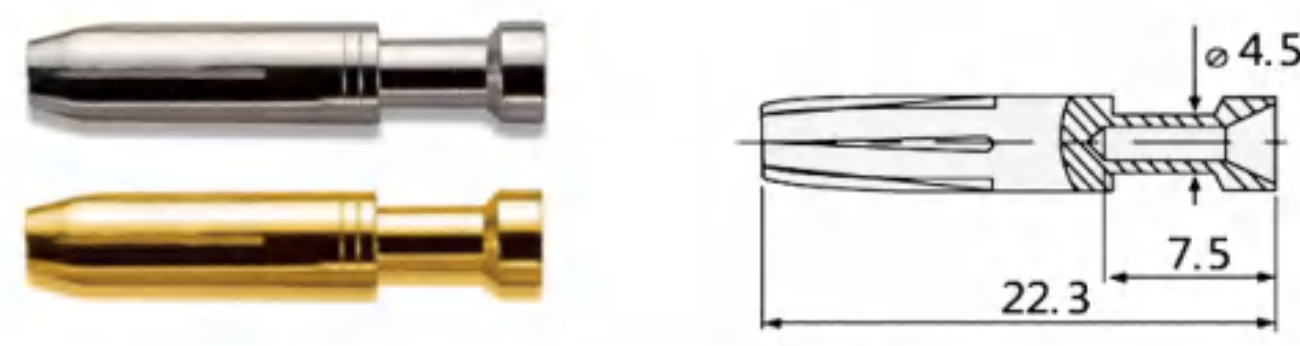
16A Crimp contacts

Male crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

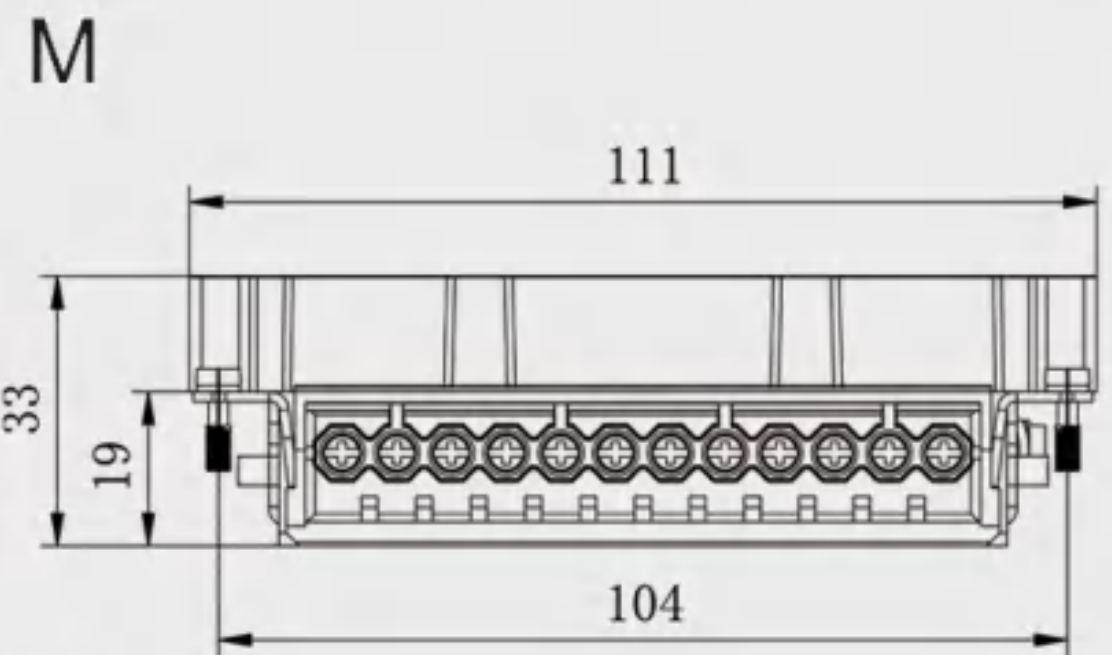
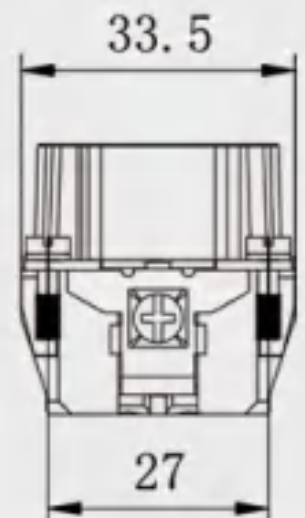
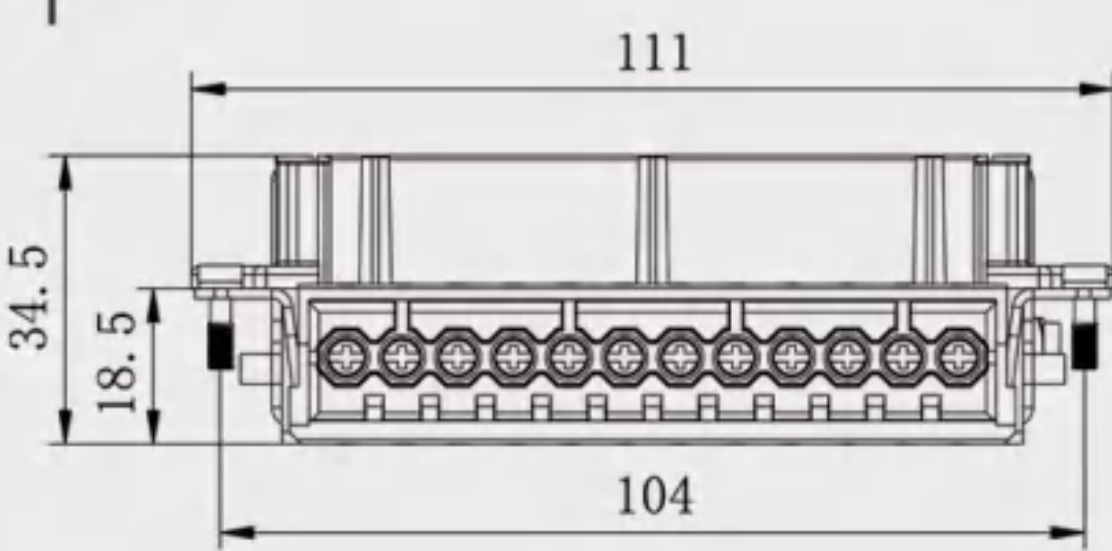
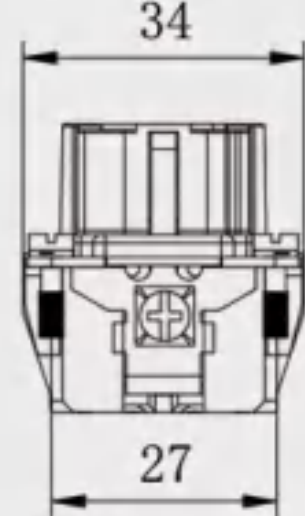
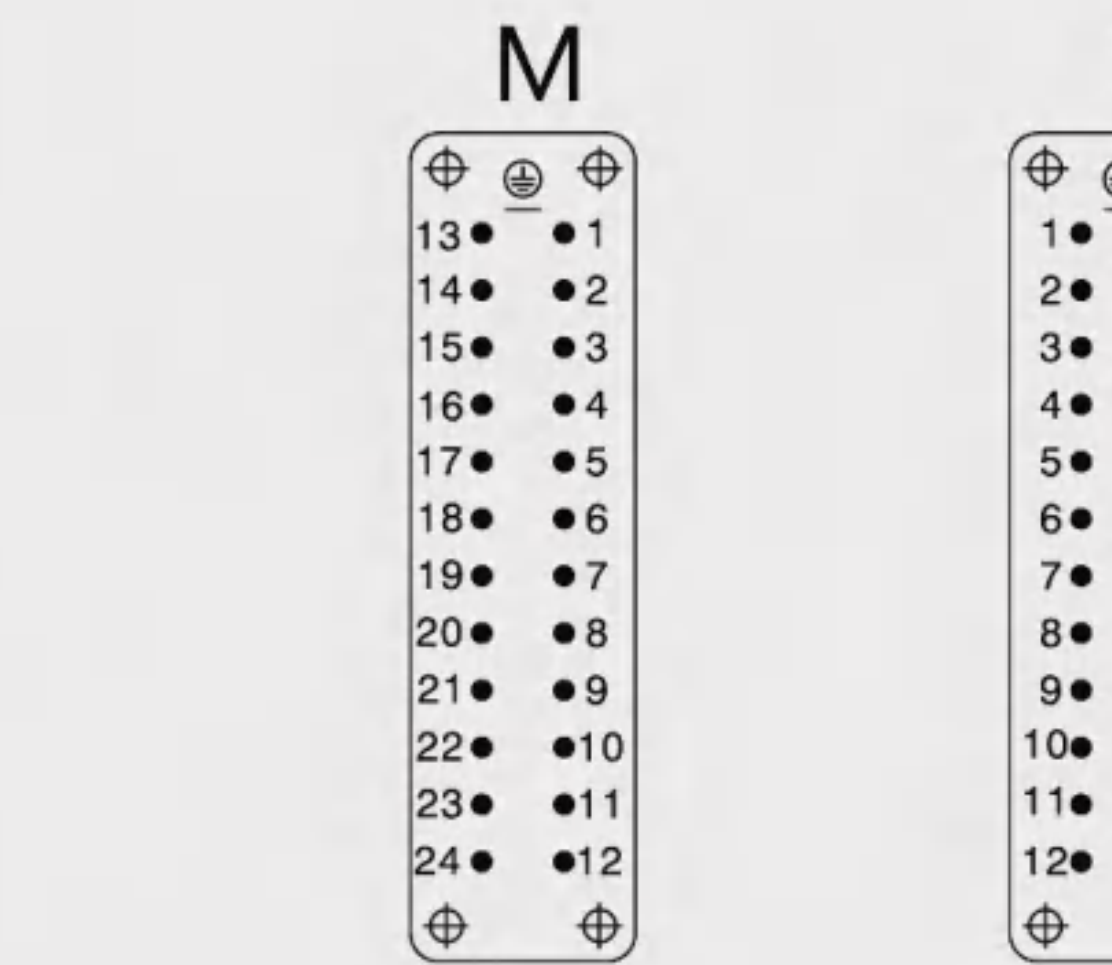
HE

WEVEL

Page 29

HE-24+

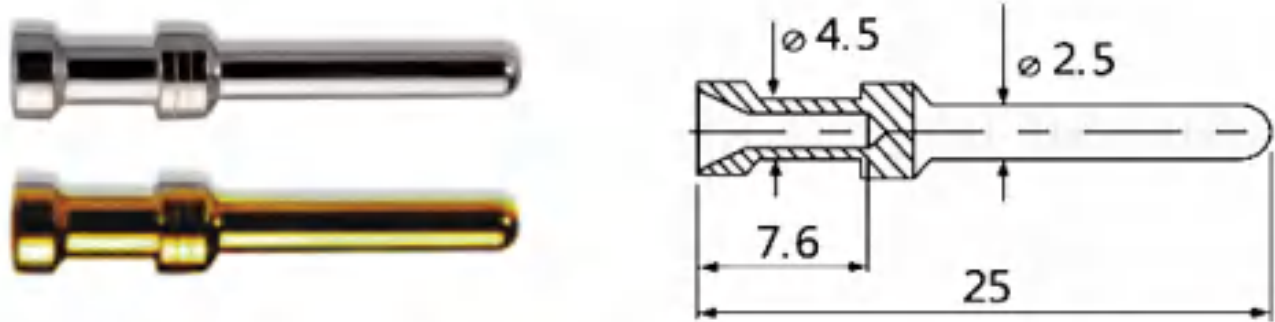
For H24B,Hood/Housing Please Refer Page No. 186-201

Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection	HE-024-M	3 024 020 10 101		
	HE-024-F	3 024 020 10 102		
Crimp connection	HE-024-MC	3 024 020 20 101		
	HE-024-FC	3 024 020 20 102		
Spring connect	HE-024-MS	3 024 020 30 101		
	HE-024-FS	3 024 020 30 102		

Maximum distance between inserts 21mm

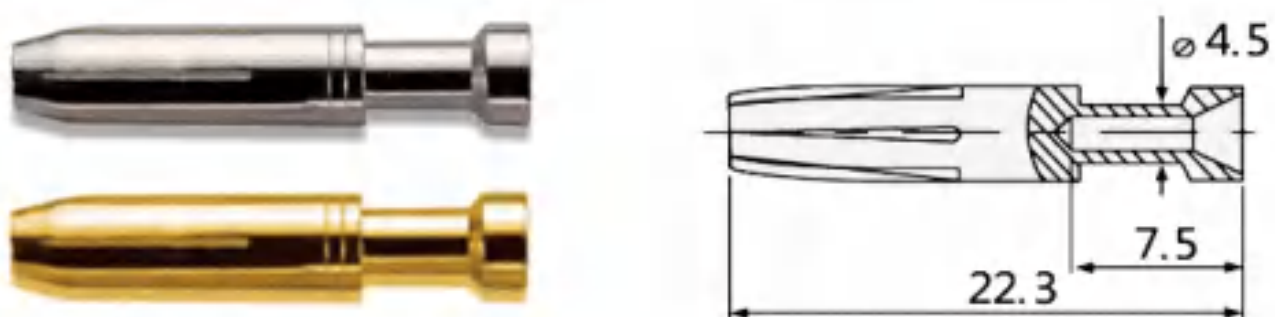
16A Crimp contacts

Male crimp contacts



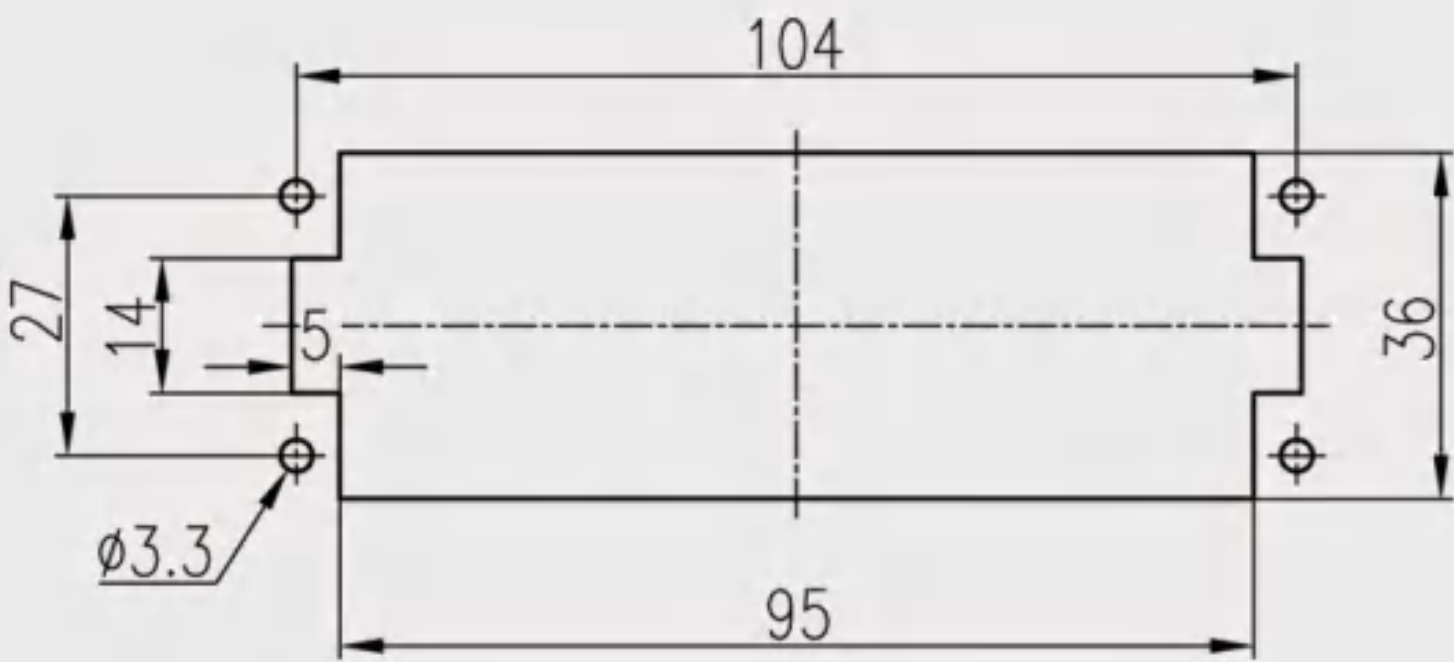
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

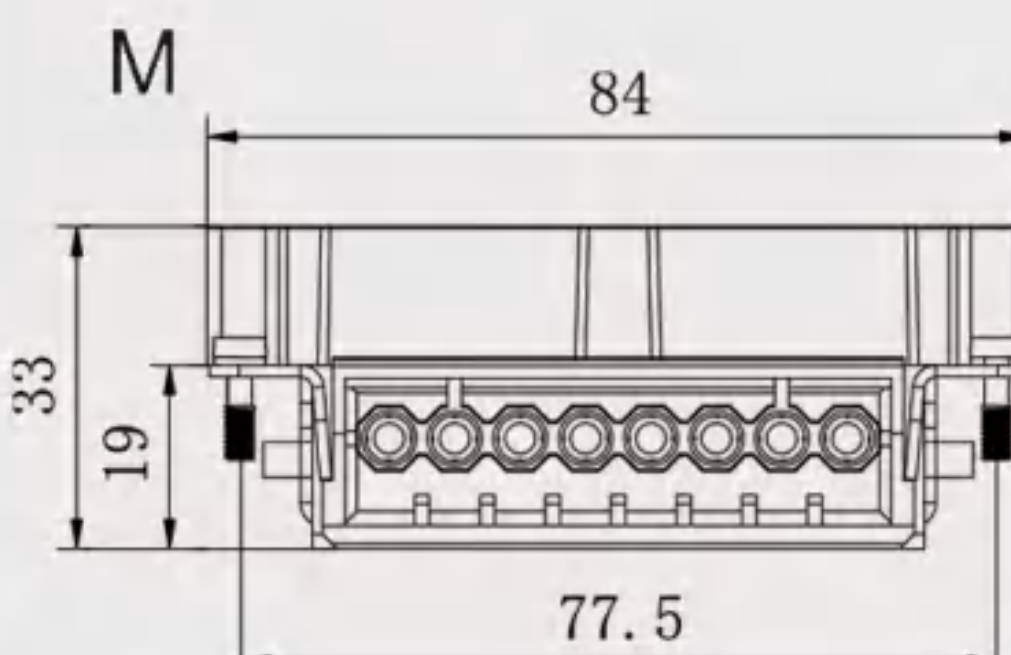
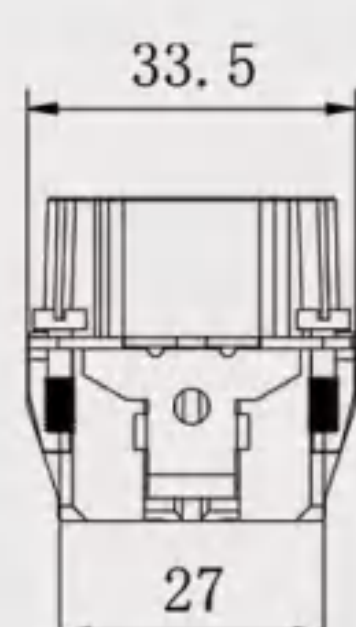
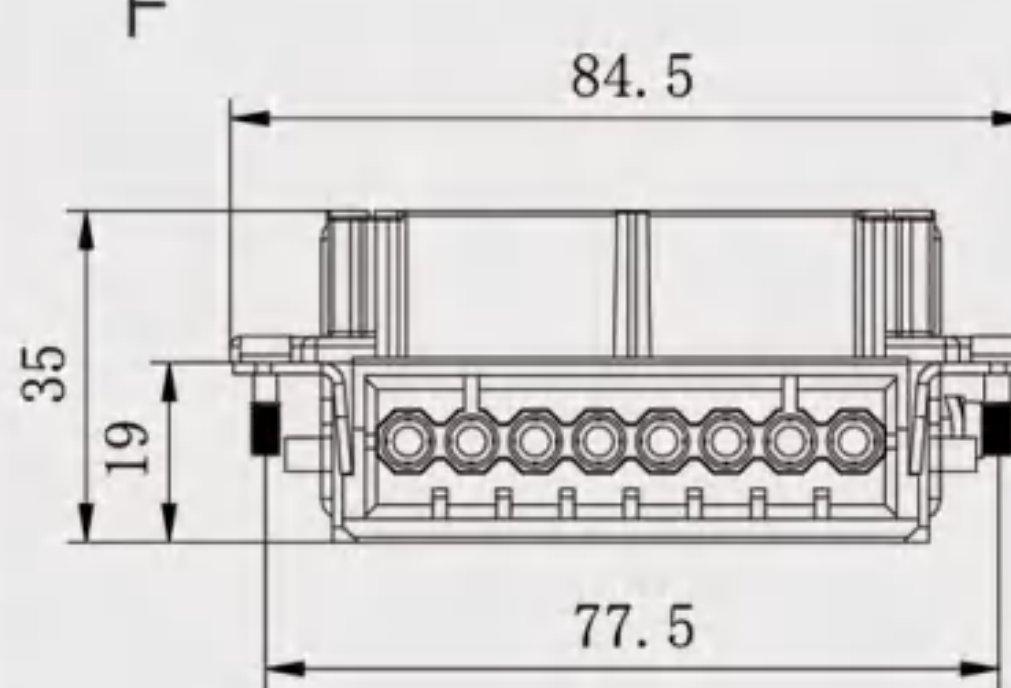
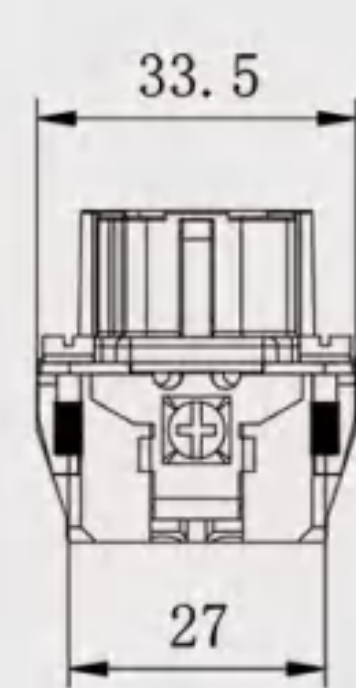
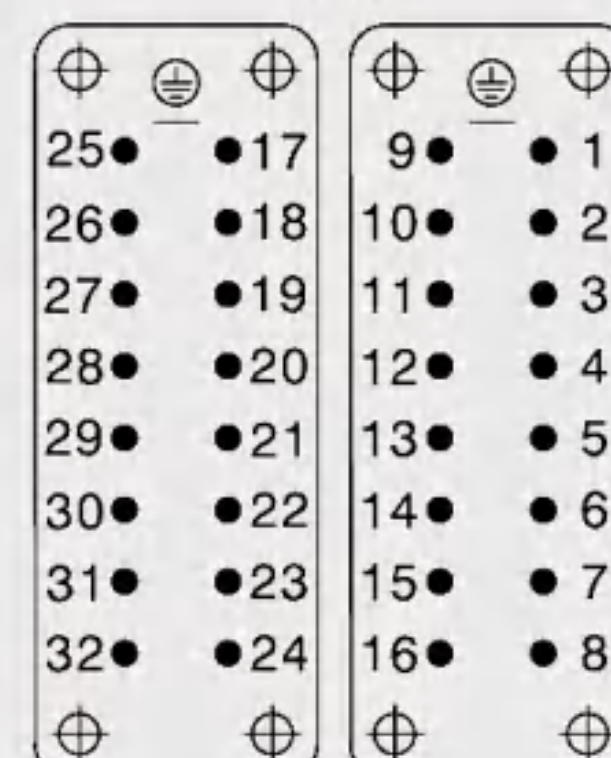
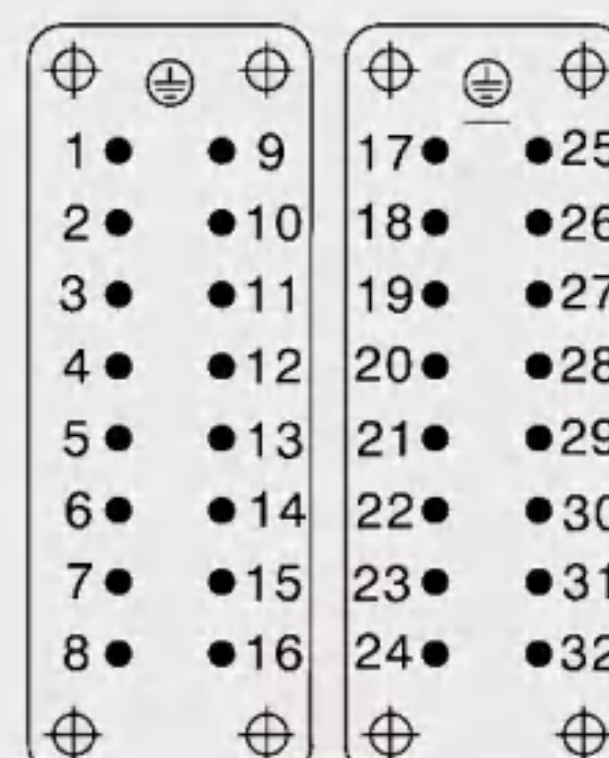
Contacts arrangement view from termination side



Panel cutout drawing

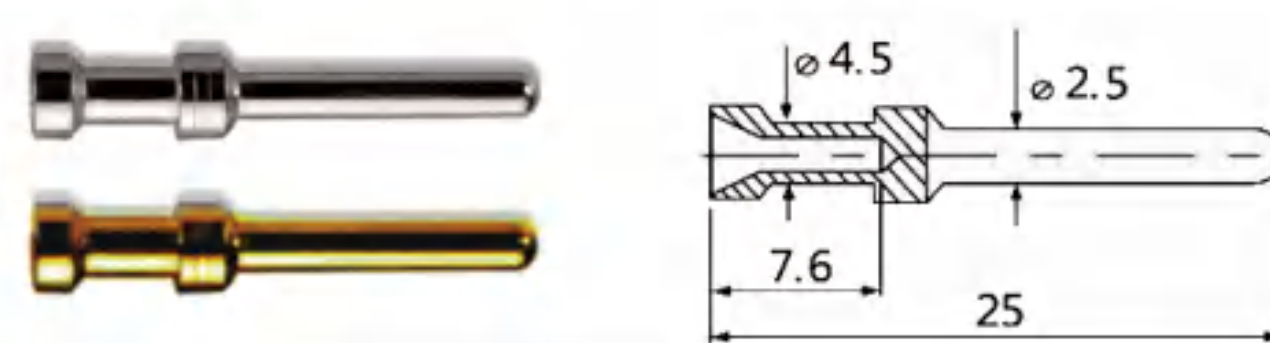
HE-32+

For **H32B**,Hood/Housing Please Refer Page No. 202-207

Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection	HE-016-M	3 016 020 10 101		
	HE-032-M(17-32)	3 032 020 10 102		
	HE-016-F	3 016 020 10 101		
	HE-032-F(17-32)	3 016 020 10 102		
Crimp connection	HE-016-MC	3 016 020 20 101		
	HE-032-MC(17-32)	3 032 020 20 101		
	HE-016-FC	3 016 020 20 102		
	HE-032-FC(17-32)	3 032 020 20 102		
Spring connect	HE-016-MS	3 016 020 30 101		
	HE-032-MS(17-32)	3 032 020 30 101		
	HE-016-FS	3 016 020 30 102		
	HE-032-FS(17-32)	3 032 020 30 102		

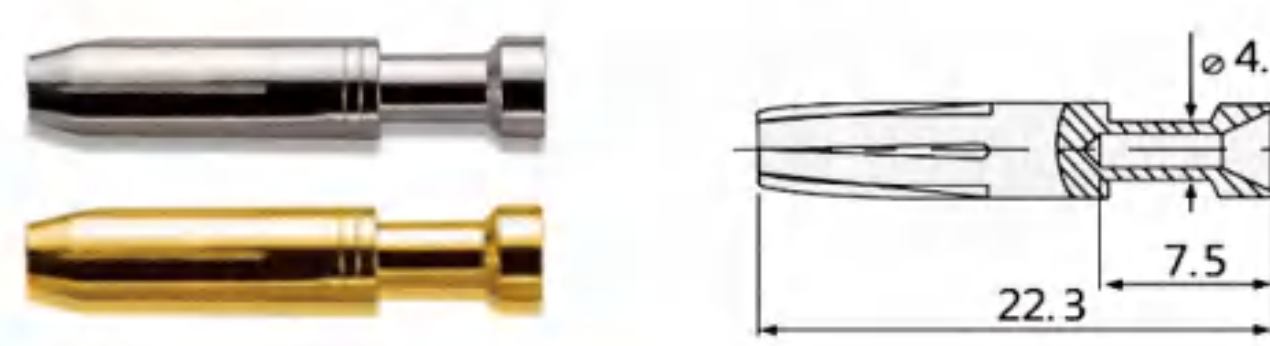
16A Crimp contacts

Male crimp contacts

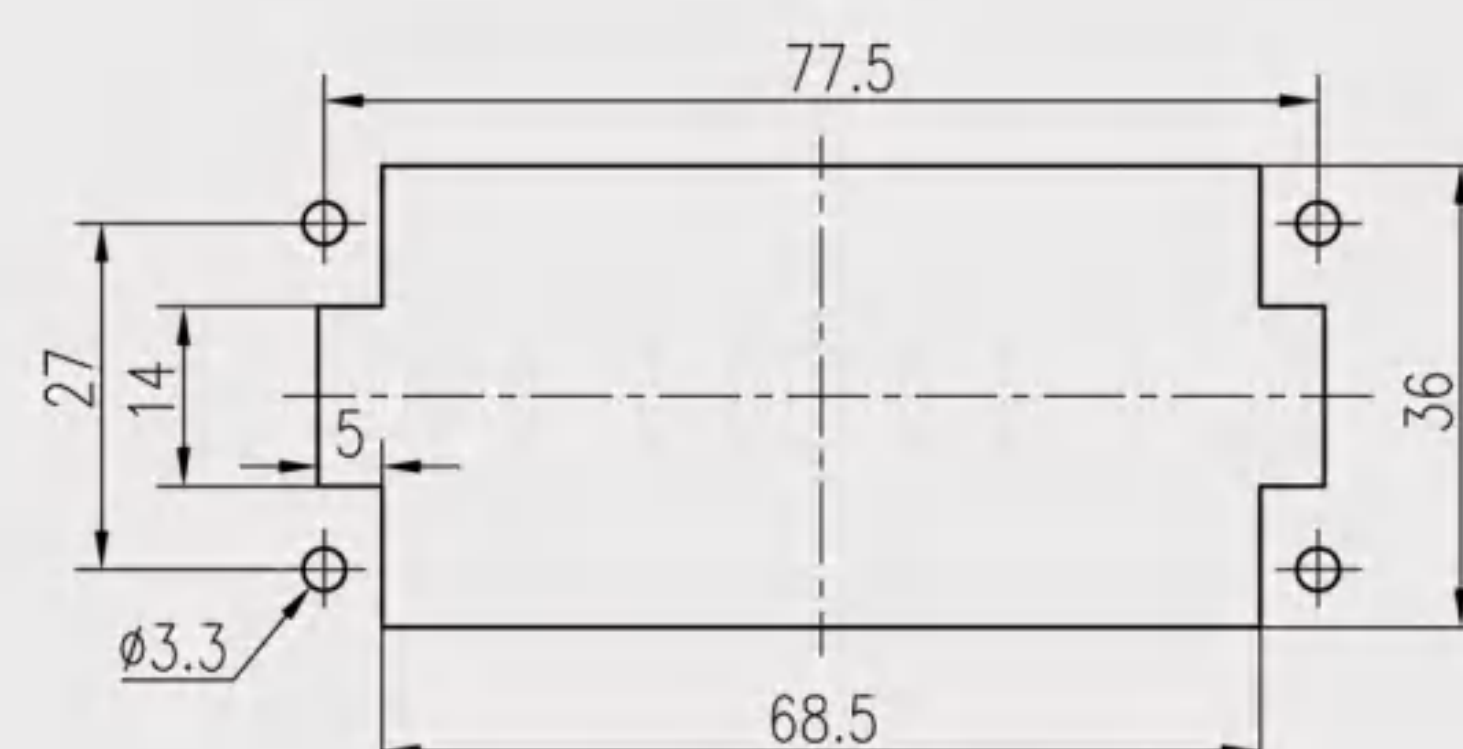


Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

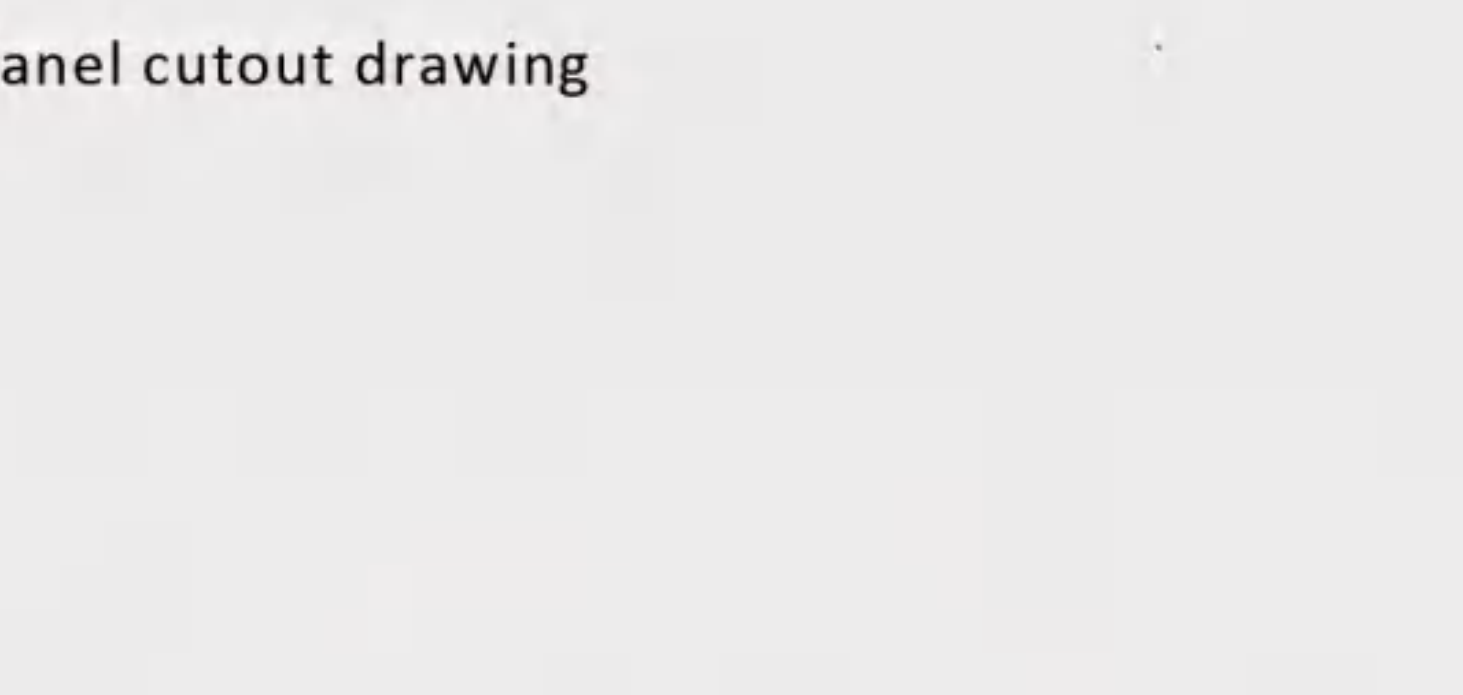
Female crimp contacts



Contacts arrangement view from termination side



Panel cutout drawing



HE-48+

For H48B,Hood/Housing Please Refer Page No. 208-209

HE

Identification

Type

Order No.

Drawing

Dimensions mm

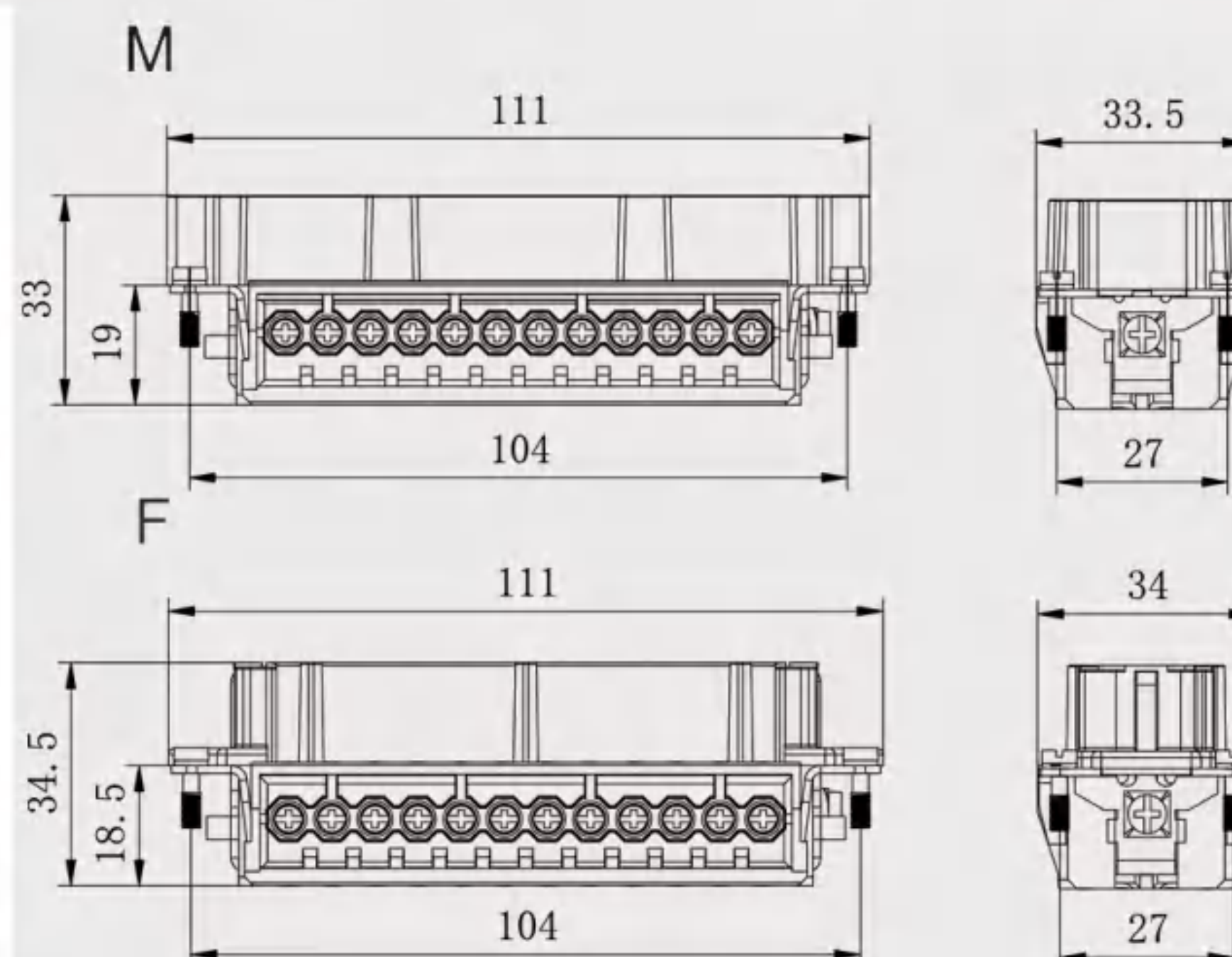
Screw connection

HE-024-M
HE-048-M(25-48)3 024 020 10 101
3 048 020 10 101HE-024-F
HE-048-F(25-48)3 024 020 10 102
3 048 020 10 102

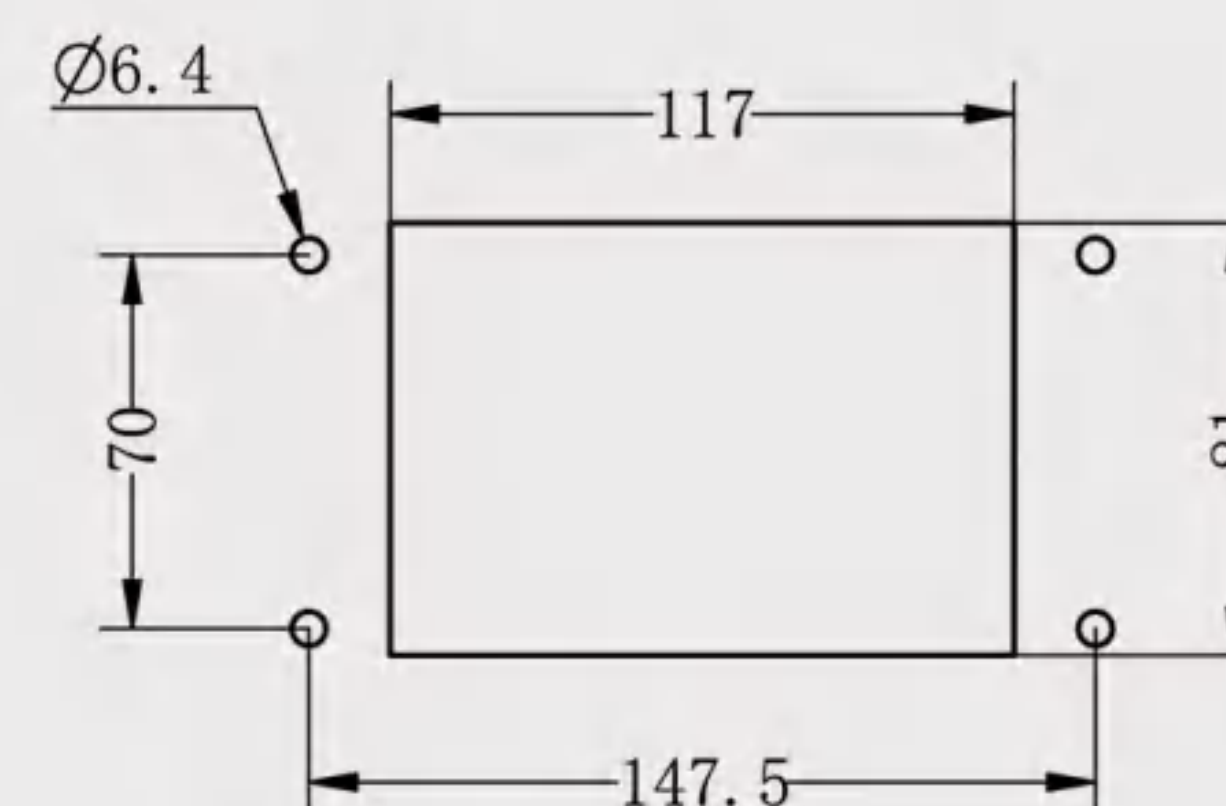
Crimp connection

HE-024-MC
HE-048-MC(25-48)3 024 020 20 101
3 048 020 20 101HE-024-FC
HE-048-FC(25-48)3 024 020 20 102
3 048 020 20 102

Spring connect

HE-024-MS
HE-048-MS(25-48)3 024 020 30 101
3 048 020 30 101HE-024-FS
HE-048-FS(25-48)3 024 020 30 102
3 048 020 30 102Maximum distance between
inserts 21mm

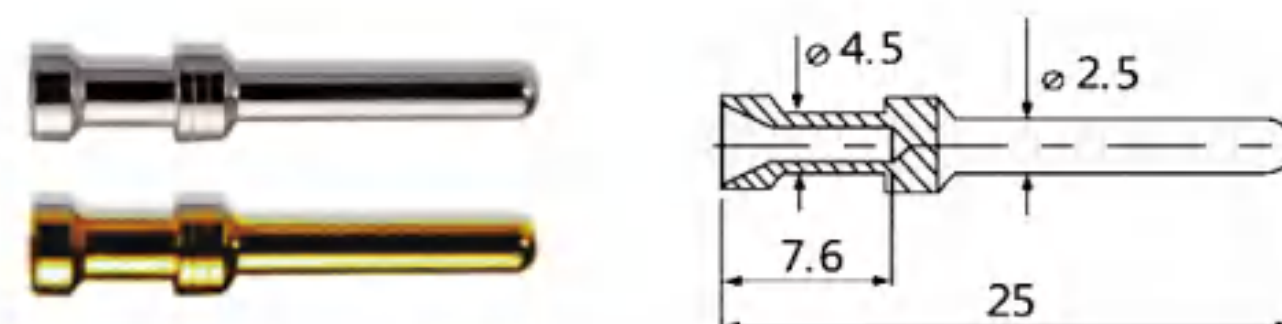
M				F			
37	0	25		13	0	1	
38	0	26		14	0	2	
39	0	27		15	0	3	
40	0	28		16	0	4	
41	0	29		17	0	5	
42	0	30		18	0	6	
43	0	31		19	0	7	
44	0	32		20	0	8	
45	0	33		21	0	9	
46	0	34		22	0	10	
47	0	35		23	0	11	
48	0	36		24	0	12	

Contacts arrangement view
from termination side

Panel cutout drawing

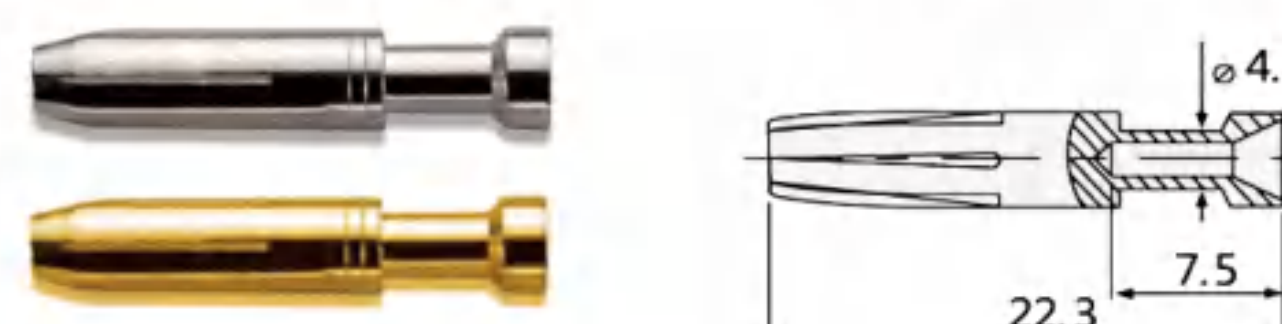
16A Crimp contacts

Male crimp contacts

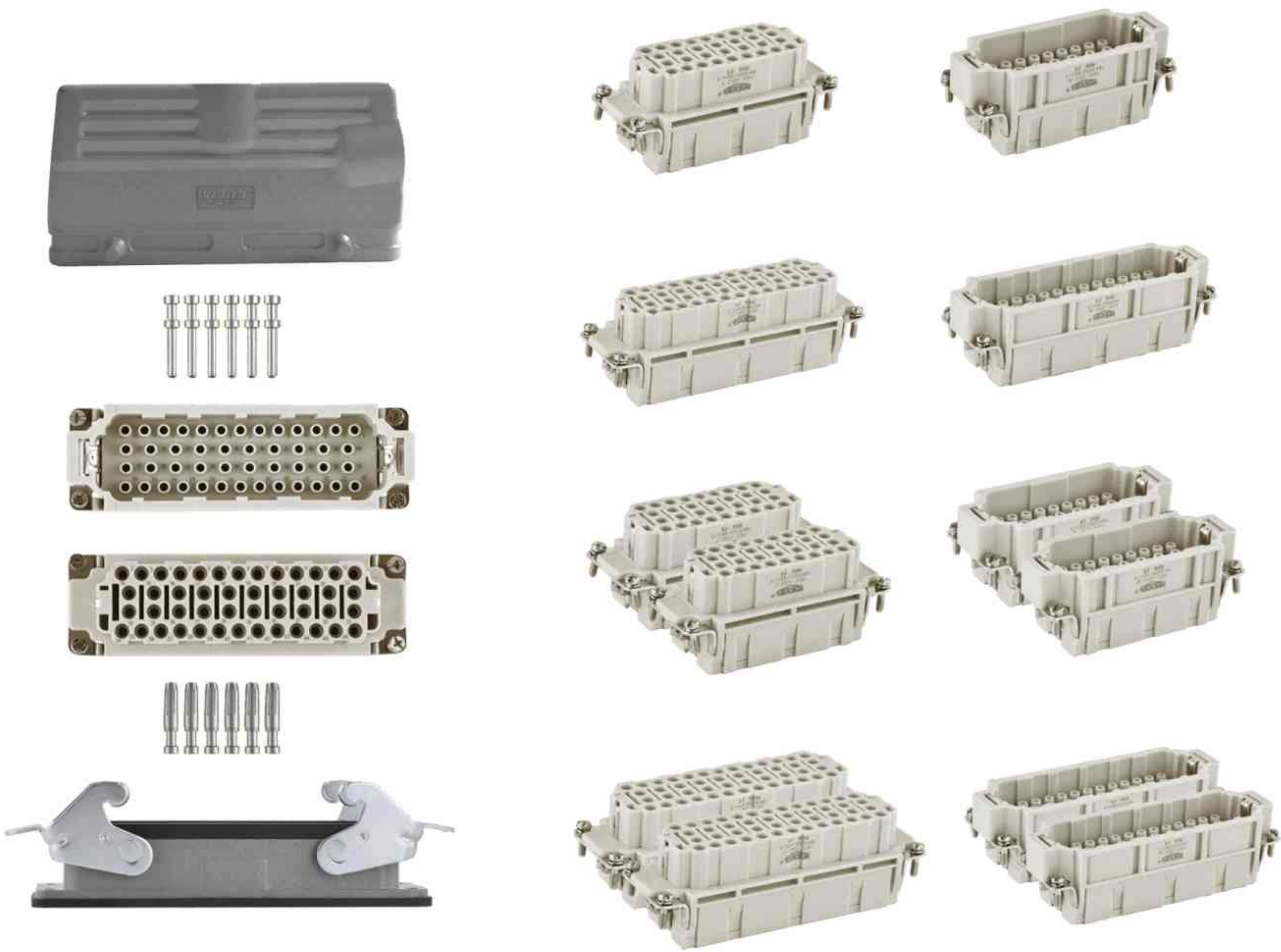


Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400



High-density connector

HEE Series

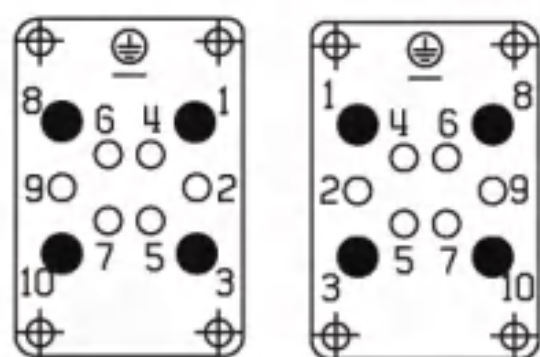
HEE modified contact arrangement up to 1000V

The connector series HEE equipped with all contacts may be used for voltage up to 500V at insulation group C, but modified contact loading arrangement permits use up to 1000V at insulation group C.

Contact arrangement view from termination side.

690V-Insulation group C

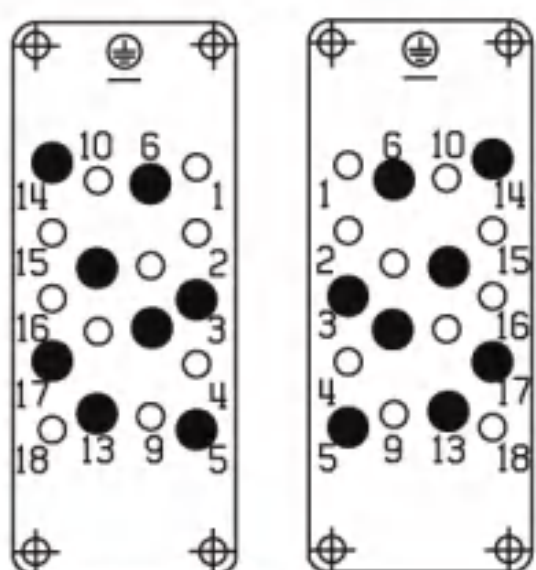
4+



M

F

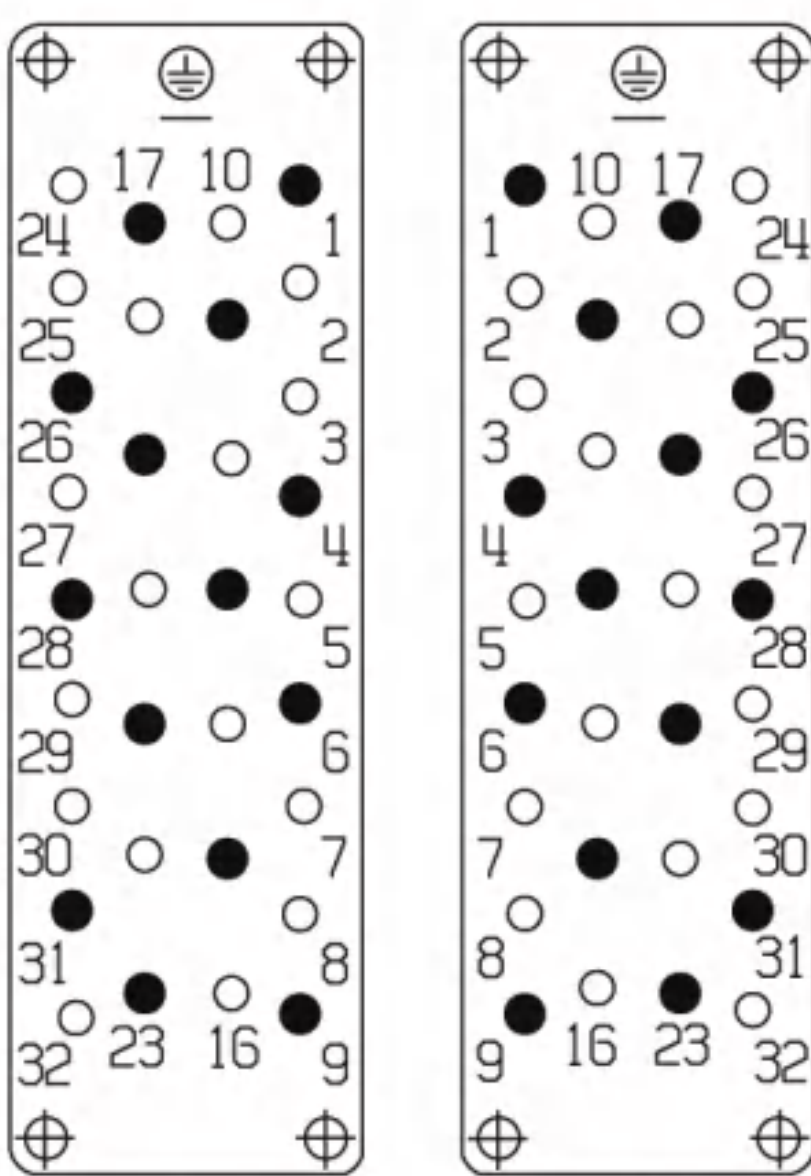
8+



M

F

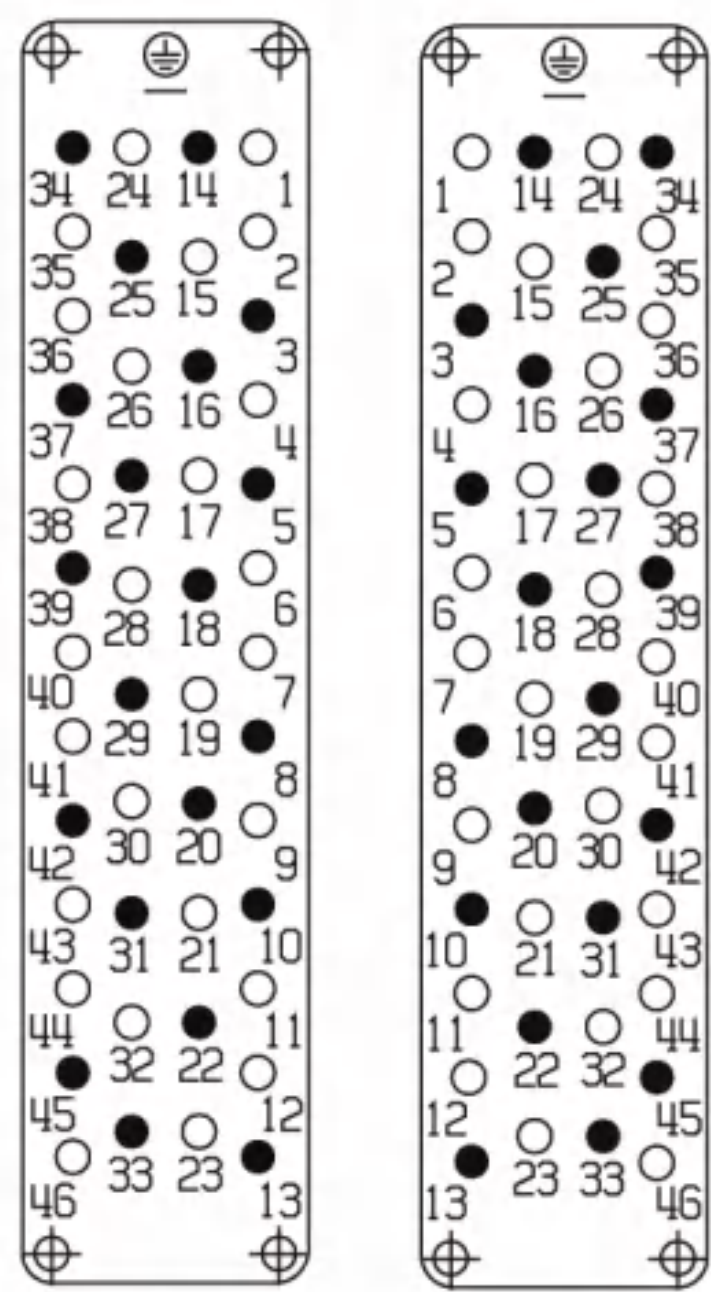
14+



M

F

20+



M

F

● Working contact

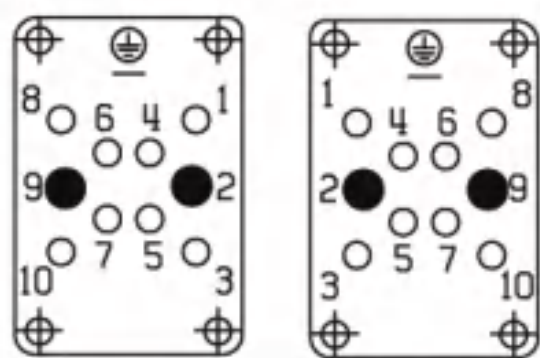
○ Without contact

M-Male insert

F-Female insert

1000V-Insulation group C

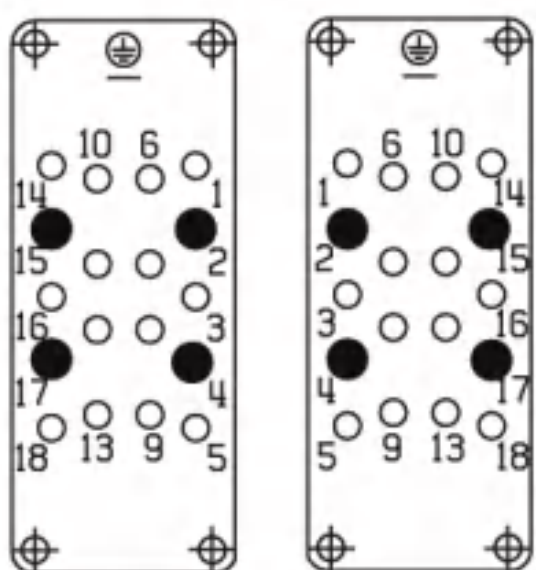
2+



M

F

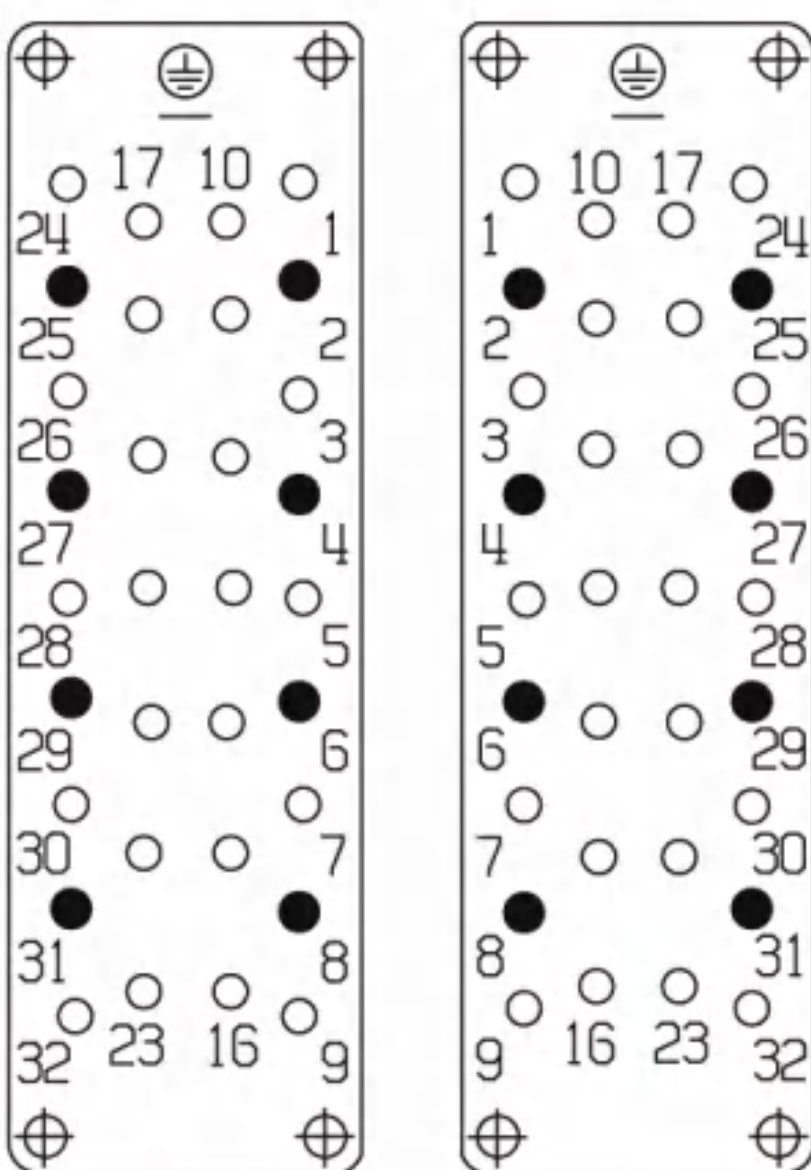
4+



M

F

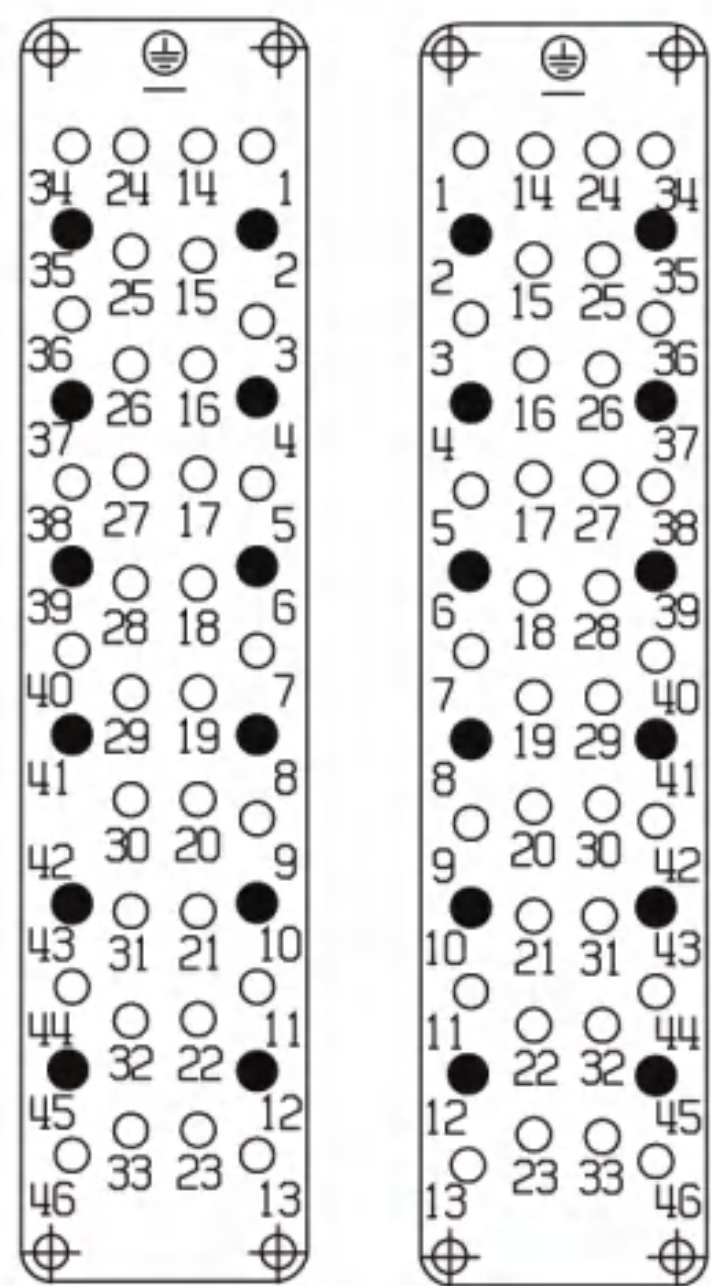
8+



M

F

12+



M

F

● Working contact

○ Without contact

M-Male insert

F-Female insert

HEE technical characteristics



HEE technical characteristics

Control and test procedures according to DIN IEC 60512-3

Current carrying capacity

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

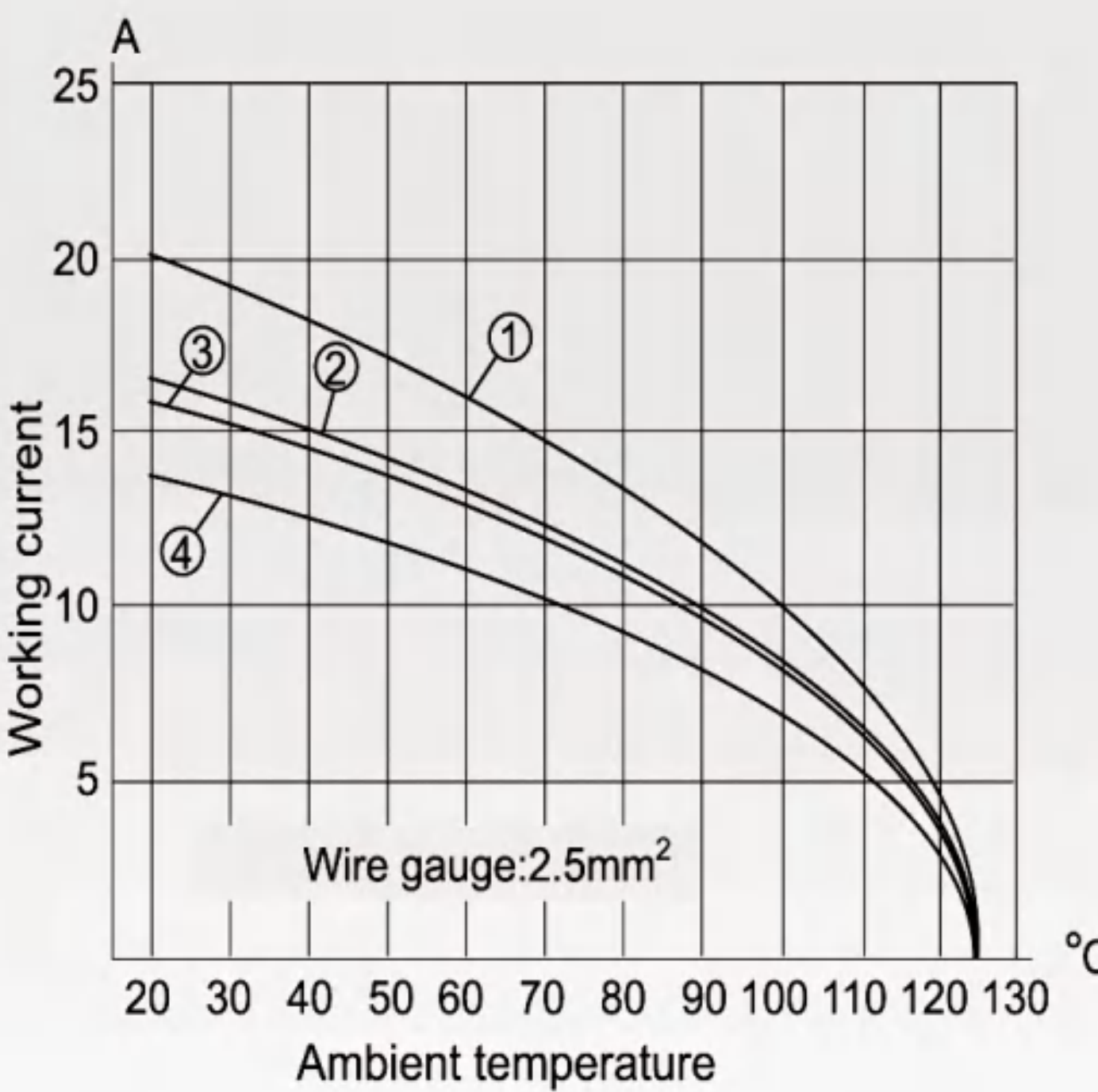
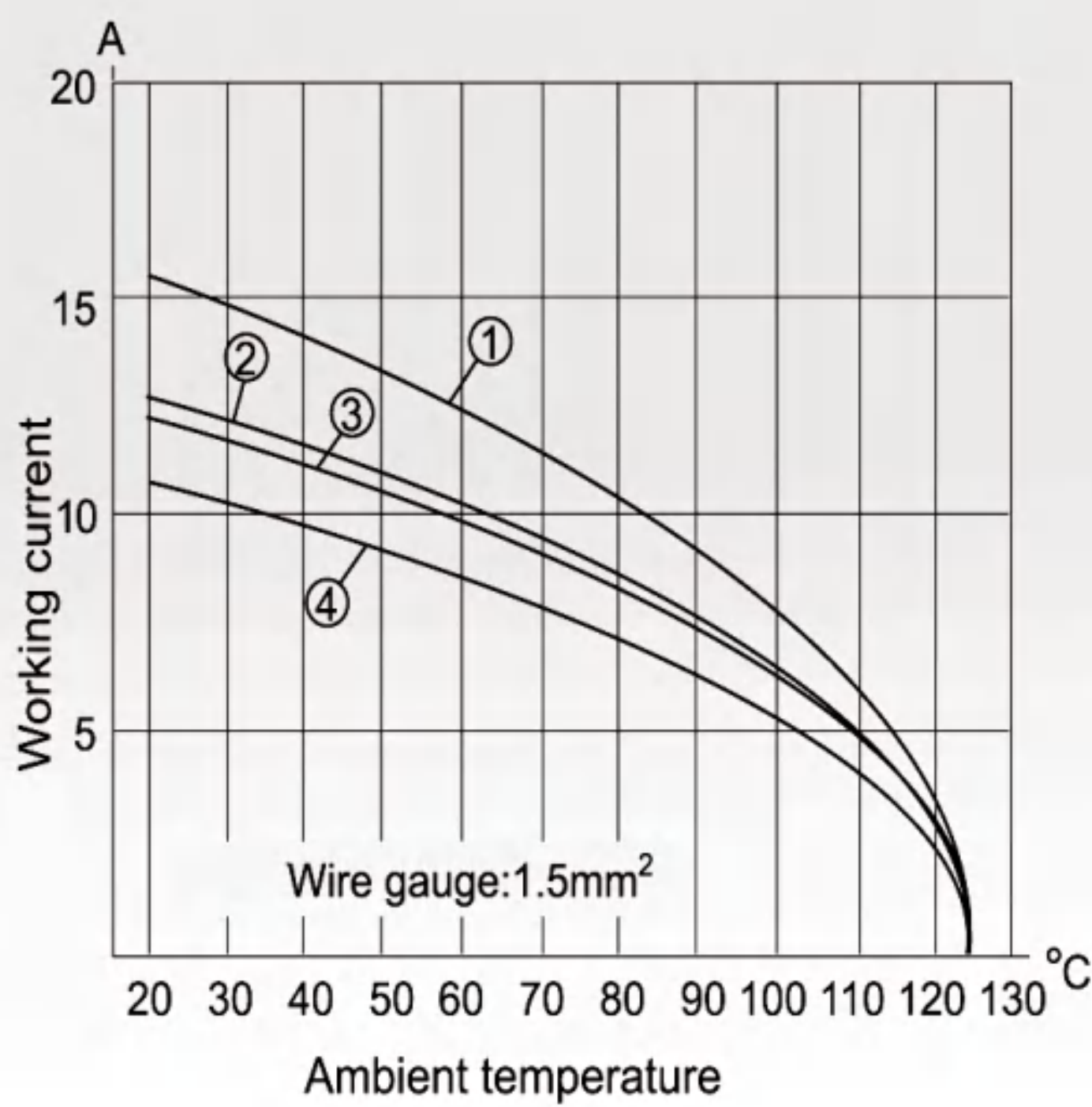
Control and test procedures accotding to DIN IEC 60512-3

Specifications

DIN EN 60 664
DIN EN 61 984

Inserts	
Number of contacts	10,18,32,46,64(2x32) 92(2x46)+PE
Working current (see current carrying capacity)	16A
Working voltage	500V
Pollution degree	3
Rated impulse voltage	6kV
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	-40°C...+125°C
Flammability acc.to UL94	V0
Working voltage acc to UL/CSA	600V
Mechanical working life(mating cycles)	≥500

Contacts	
Material	Copper alloy
Surface	Hard silver-plated Hard gold-plated
Contact resistance	≤1mΩ
Wiring method	Crimp connection
Wire gauge	0.14-4.0mm ² AWG26-12
Stripping length	7.5mm



①HEE-010 ②HEE-018 ③HEE-032 ④HEE-046

HEE

HEE-10+

For **H6B**,Hood/Housing Please Refer Page No. 146-155

Identification

Crimp connection





Type

HEE-010-M

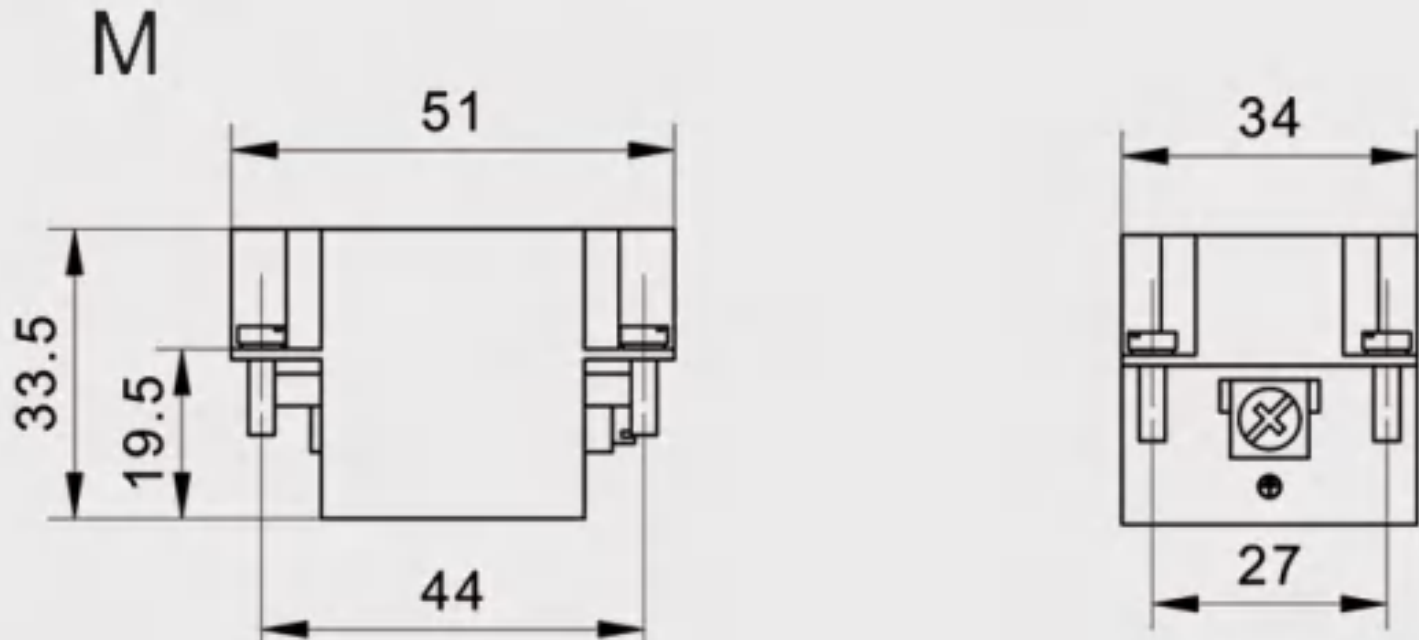
HEE-010-F

Order No.

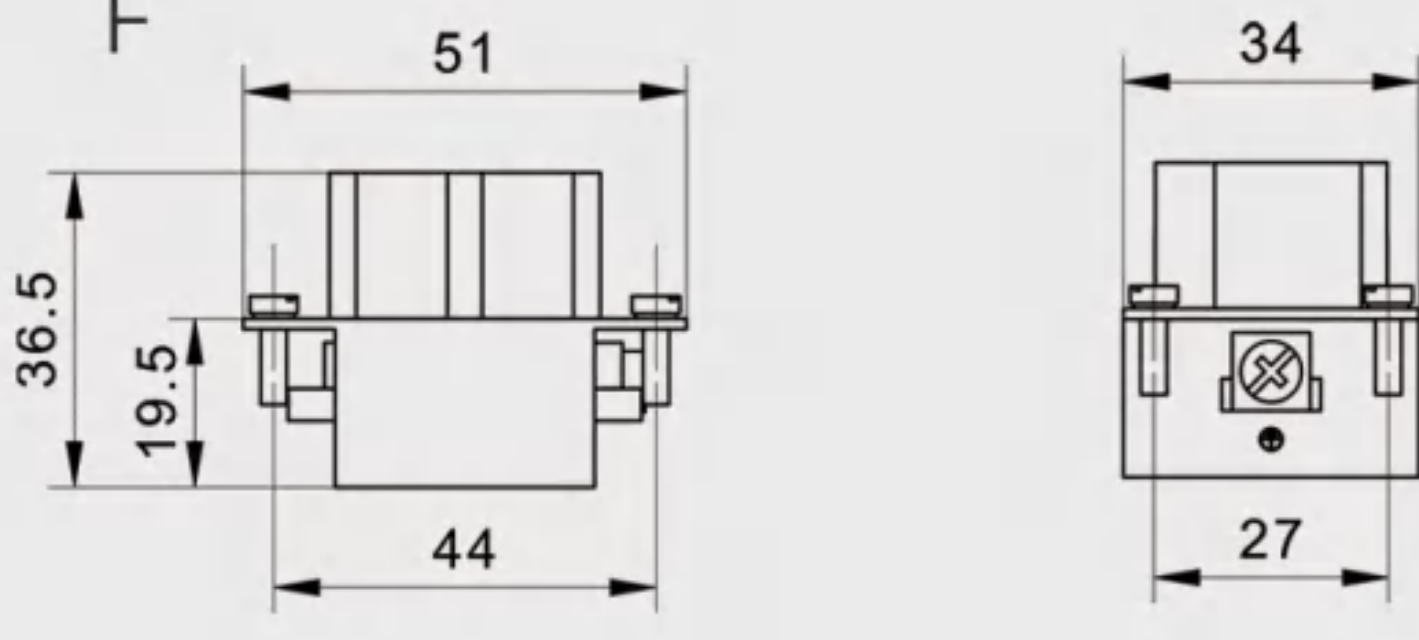
3 010 030 20 101

3 010 030 20 102

M

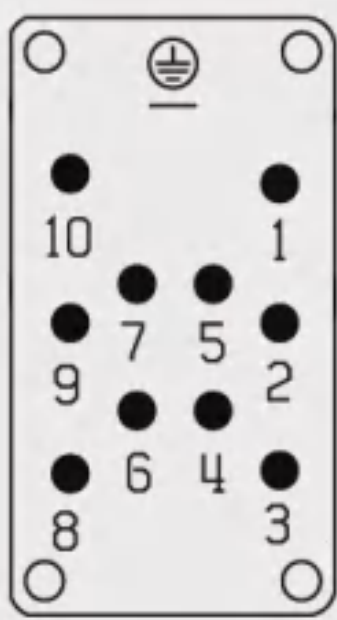


F

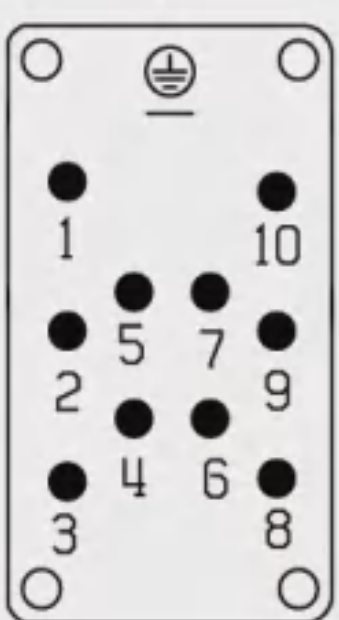


Maximum distance between inserts 21mm

M

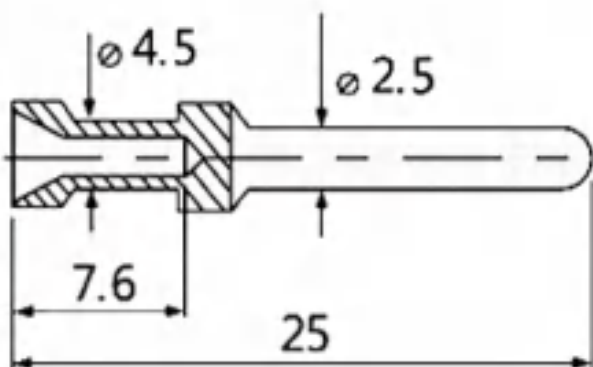


F



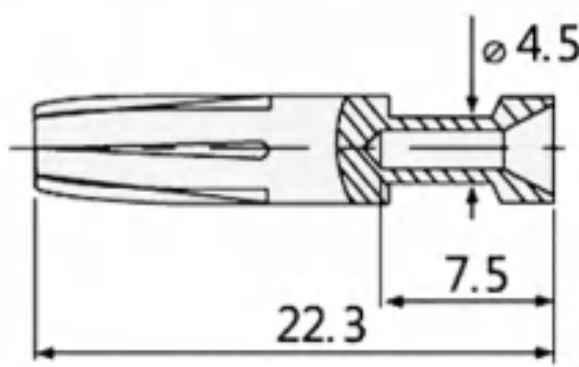
16A Crimp contacts

Male crimp contacts



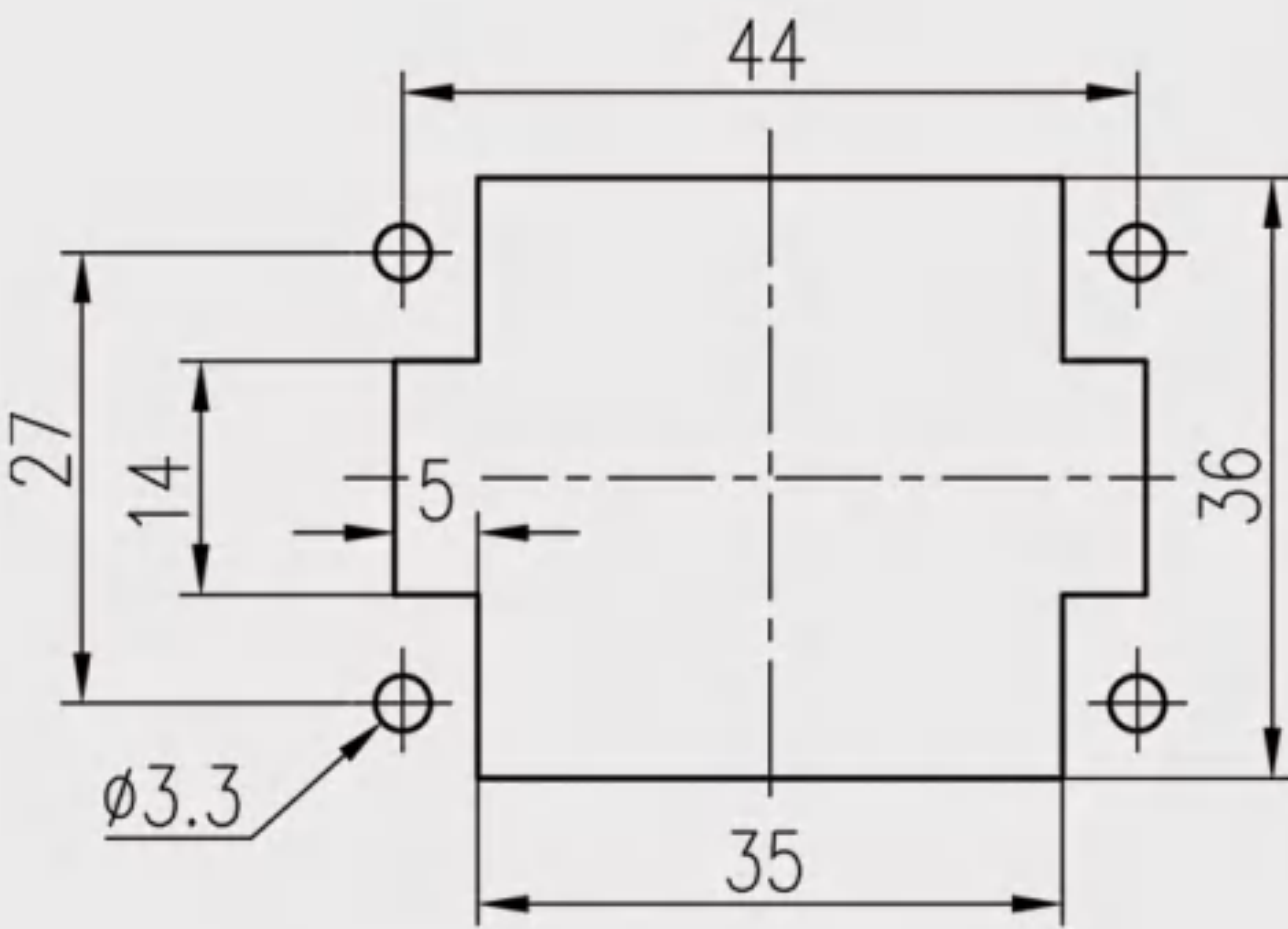
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts

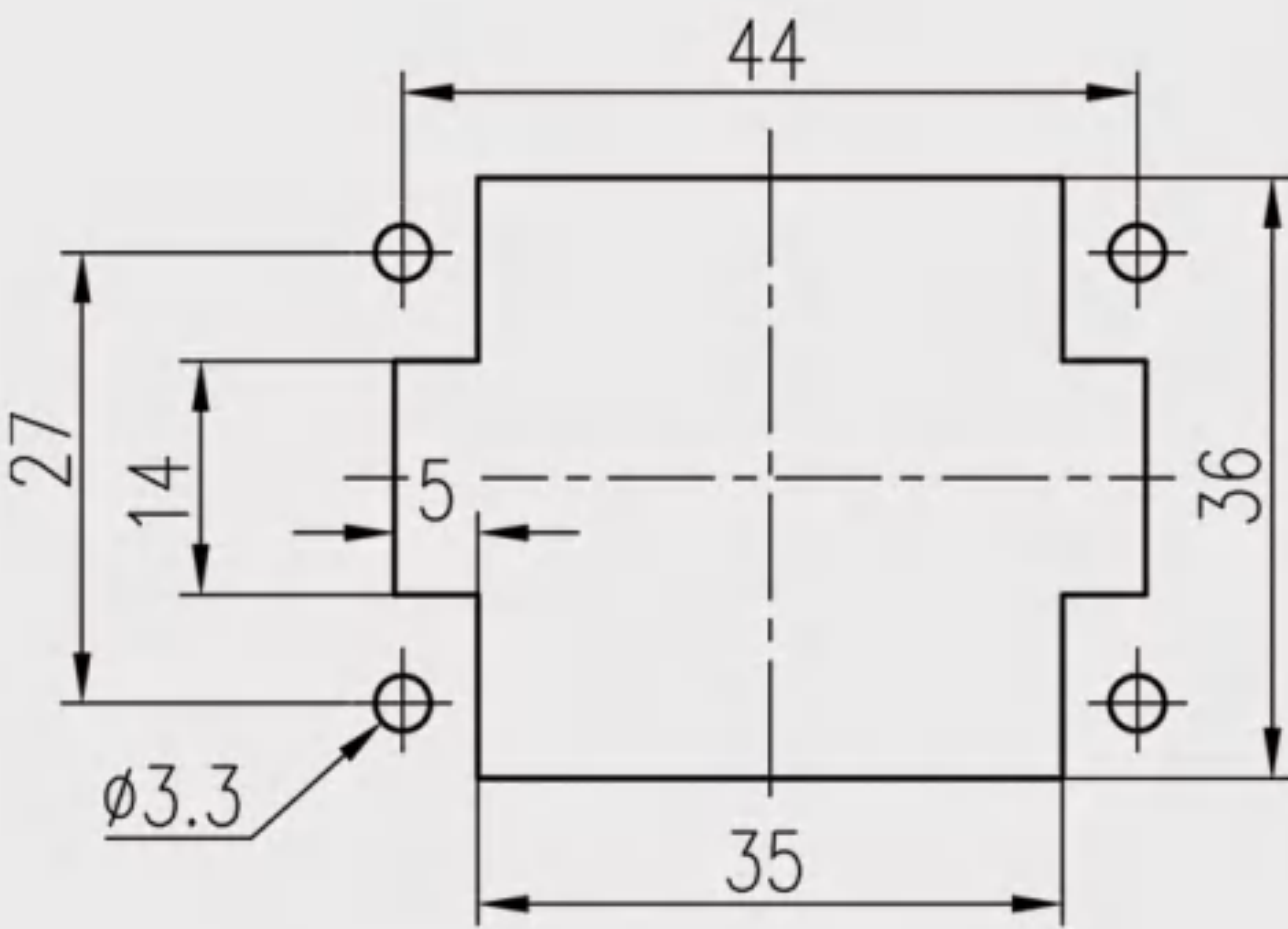


Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

Contacts arrangement view from termination side

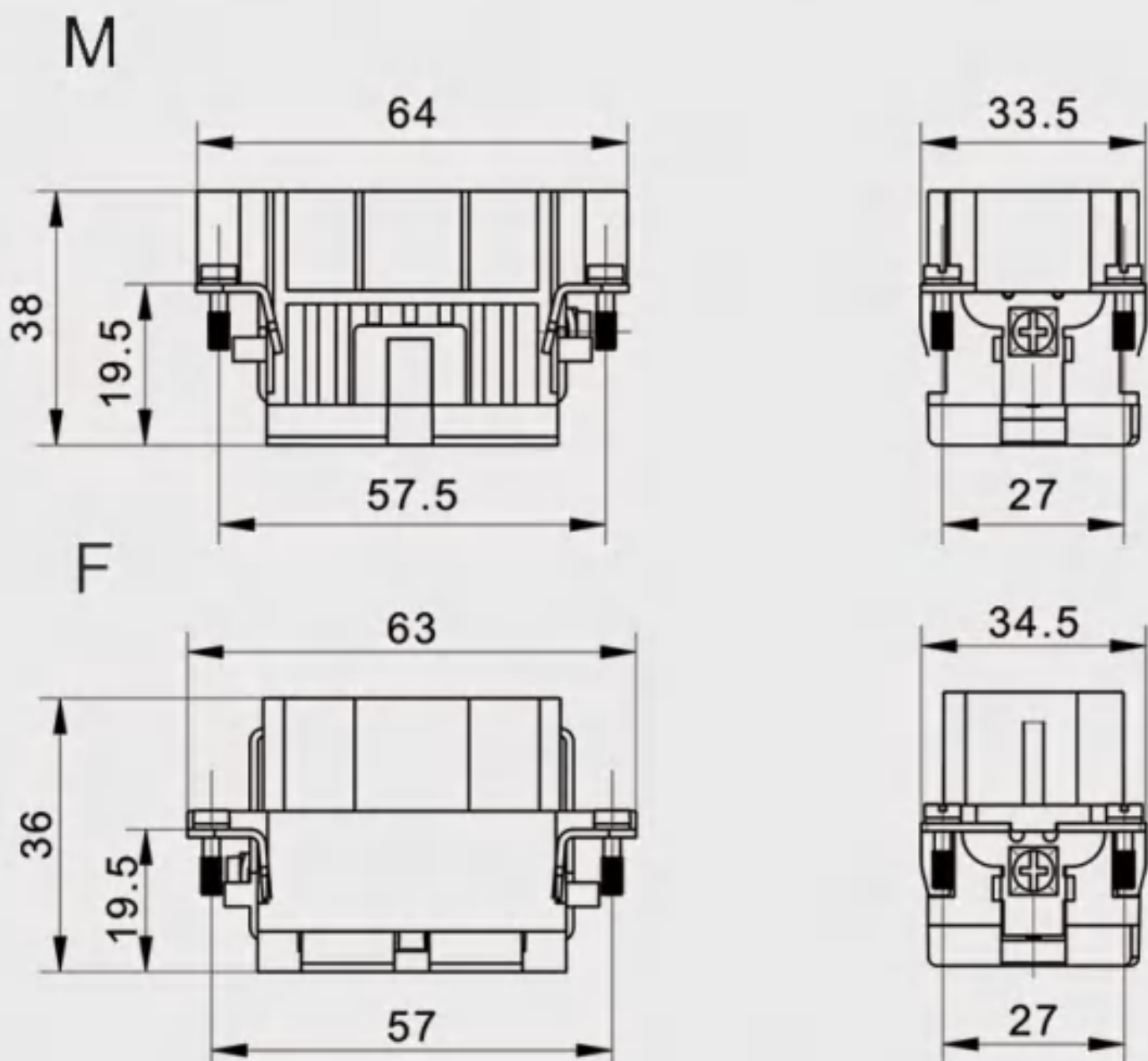
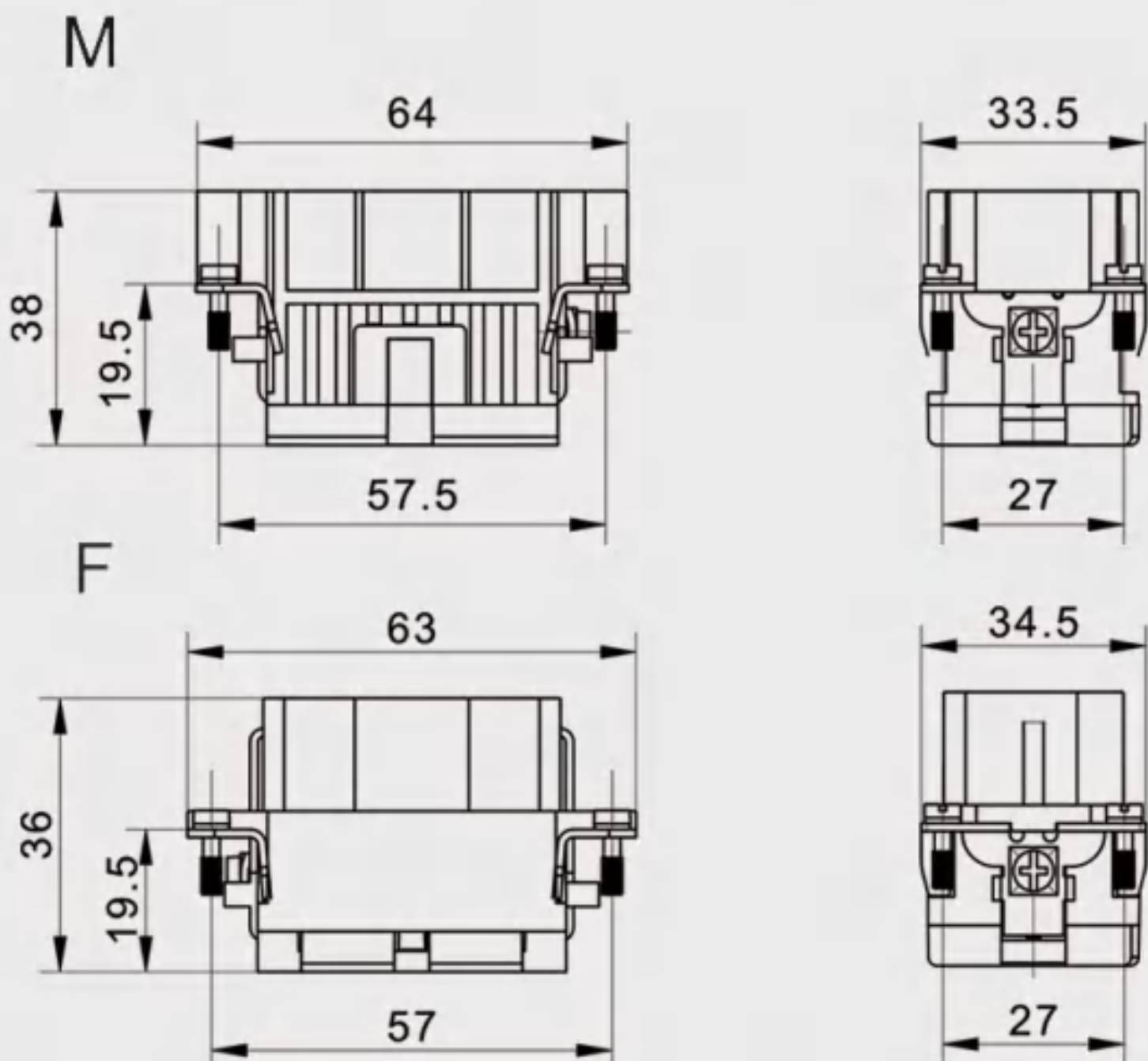
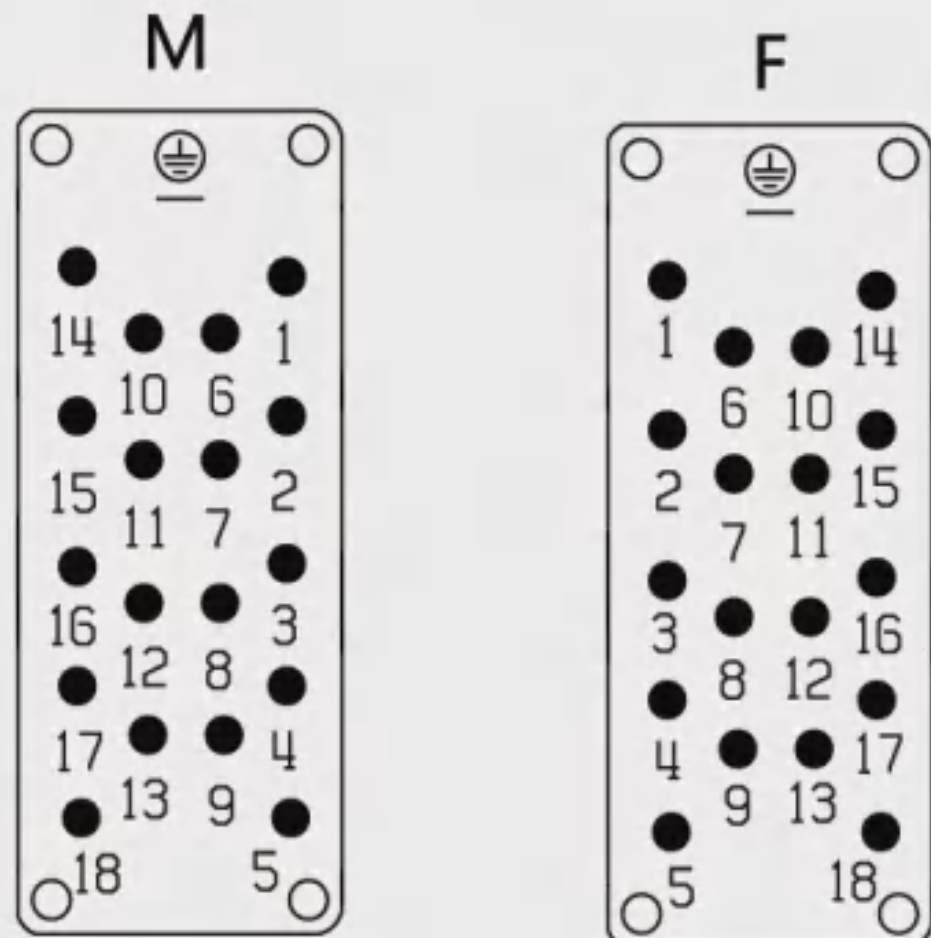
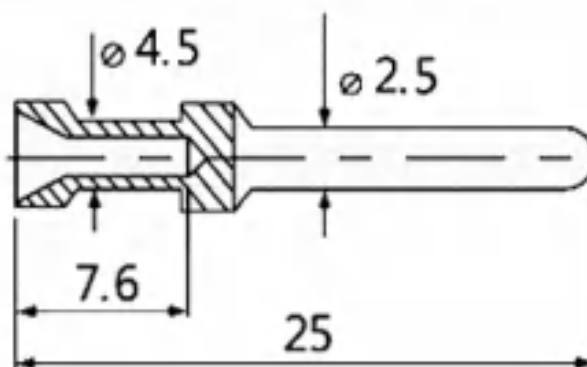
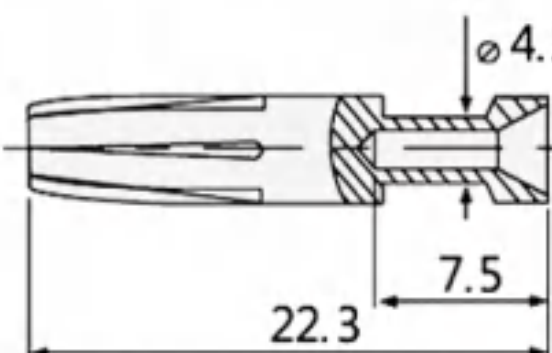
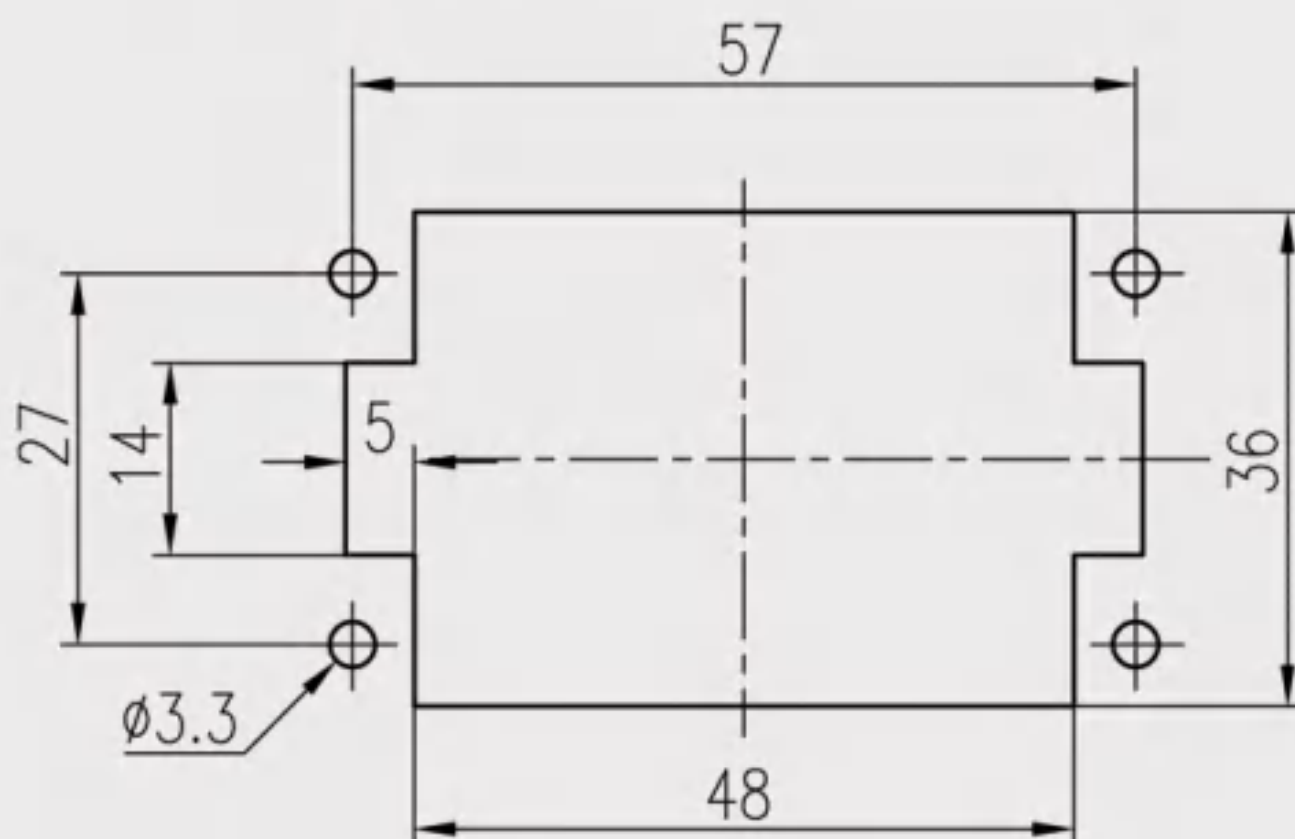


Panel cutout drawing



HEE-18+

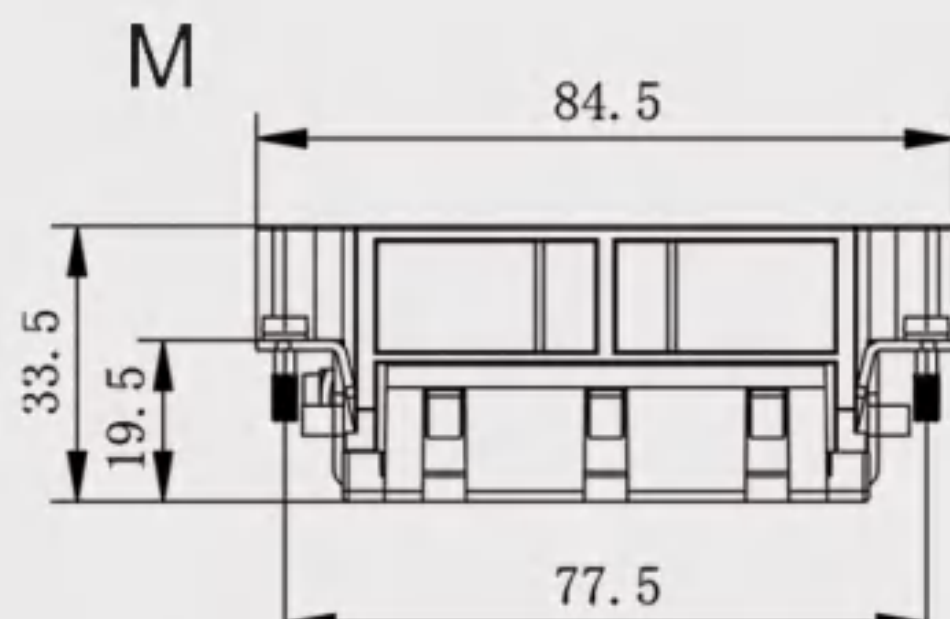
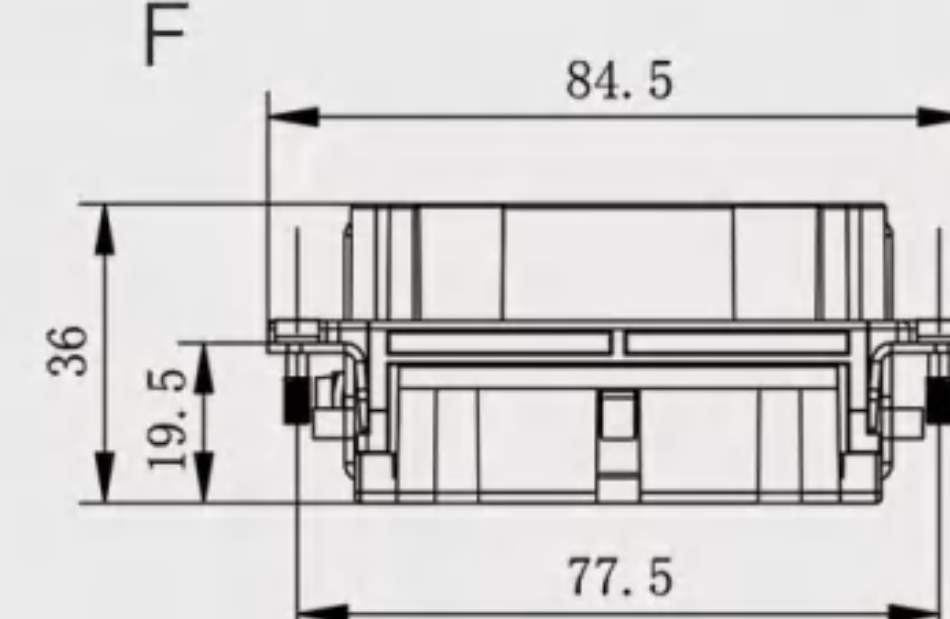
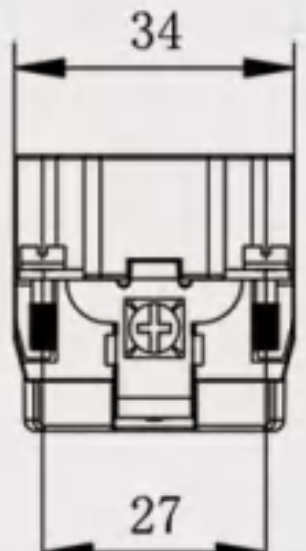
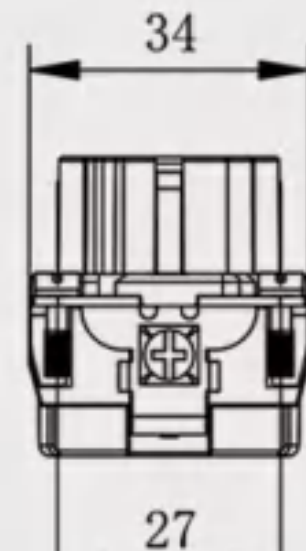
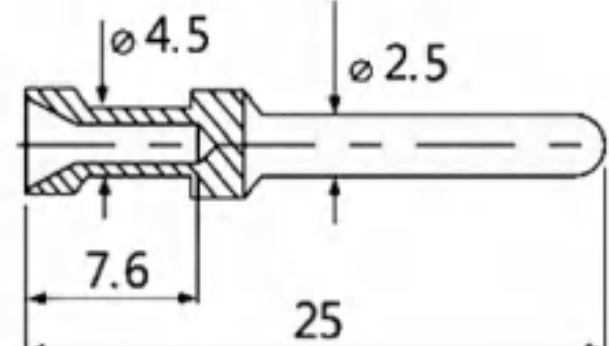
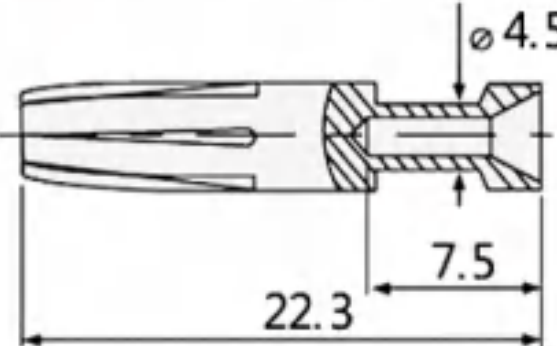
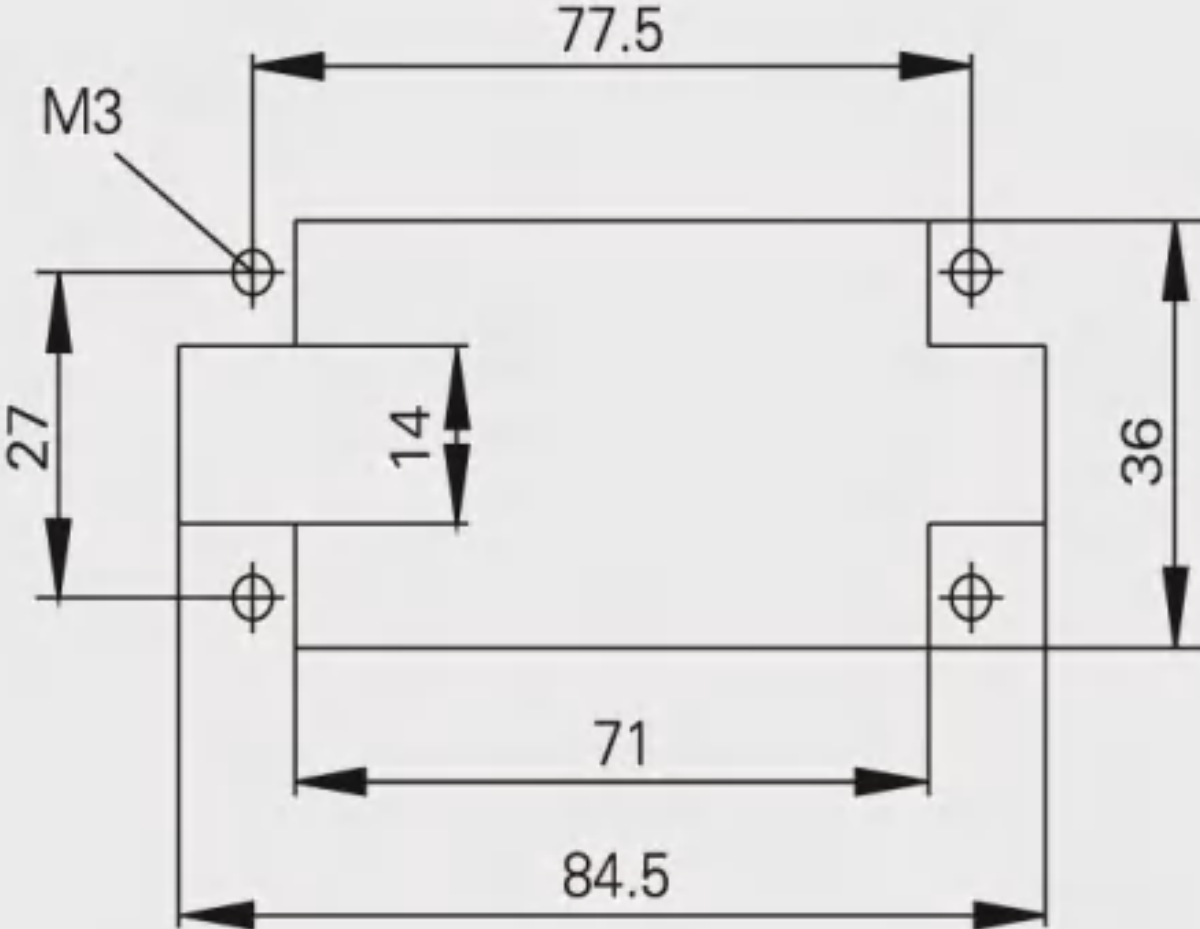
For **H10B**,Hood/Housing Please Refer Page No. 156-170

Identification	Type	Order No.	Drawing	Dimensions mm																																
Crimp connection																																				
	HEE-018-M	3 018 030 20 101																																		
	HEE-018-F	3 018 030 20 102																																		
Maximum distance between inserts 21mm																																				
																																				
16A Crimp contacts																																				
Male crimp contacts																																				
																																				
<table><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr><tr><td>ESM-0.37</td><td>4 016 110 10 037</td><td>EGM-0.37</td><td>4 016 210 10 037</td></tr><tr><td>ESM-0.5</td><td>4 016 110 10 050</td><td>EGM-0.5</td><td>4 016 210 10 050</td></tr><tr><td>ESM-0.75</td><td>4 016 110 10 075</td><td>EGM-0.75</td><td>4 016 210 10 075</td></tr><tr><td>ESM-1.0</td><td>4 016 110 10 100</td><td>EGM-1.0</td><td>4 016 210 10 100</td></tr><tr><td>ESM-1.5</td><td>4 016 110 10 150</td><td>EGM-1.5</td><td>4 016 210 10 150</td></tr><tr><td>ESM-2.5</td><td>4 016 110 10 250</td><td>EGM-2.5</td><td>4 016 210 10 250</td></tr><tr><td>ESM-4.0</td><td>4 016 110 10 400</td><td>EGM-4.0</td><td>4 016 210 10 400</td></tr></table>					Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037	ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050	ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075	ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100	ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150	ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250	ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																																	
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037																																	
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050																																	
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075																																	
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100																																	
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150																																	
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250																																	
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400																																	
Female crimp contacts																																				
																																				
<table><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr><tr><td>ESF-0.37</td><td>4 016 110 20 037</td><td>EGF-0.37</td><td>4 016 210 20 037</td></tr><tr><td>ESF-0.5</td><td>4 016 110 20 050</td><td>EGF-0.5</td><td>4 016 210 20 050</td></tr><tr><td>ESF-0.75</td><td>4 016 110 20 075</td><td>EGF-0.75</td><td>4 016 210 20 075</td></tr><tr><td>ESF-1.0</td><td>4 016 110 20 100</td><td>EGF-1.0</td><td>4 016 210 20 100</td></tr><tr><td>ESF-1.5</td><td>4 016 110 20 150</td><td>EGF-1.5</td><td>4 016 210 20 150</td></tr><tr><td>ESF-2.5</td><td>4 016 110 20 250</td><td>EGF-2.5</td><td>4 016 210 20 250</td></tr><tr><td>ESF-4.0</td><td>4 016 110 20 400</td><td>EGF-4.0</td><td>4 016 210 20 400</td></tr></table>					Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037	ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050	ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075	ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100	ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150	ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250	ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																																	
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037																																	
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050																																	
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075																																	
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100																																	
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150																																	
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250																																	
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400																																	
																																				
Panel cutout drawing																																				

HEE

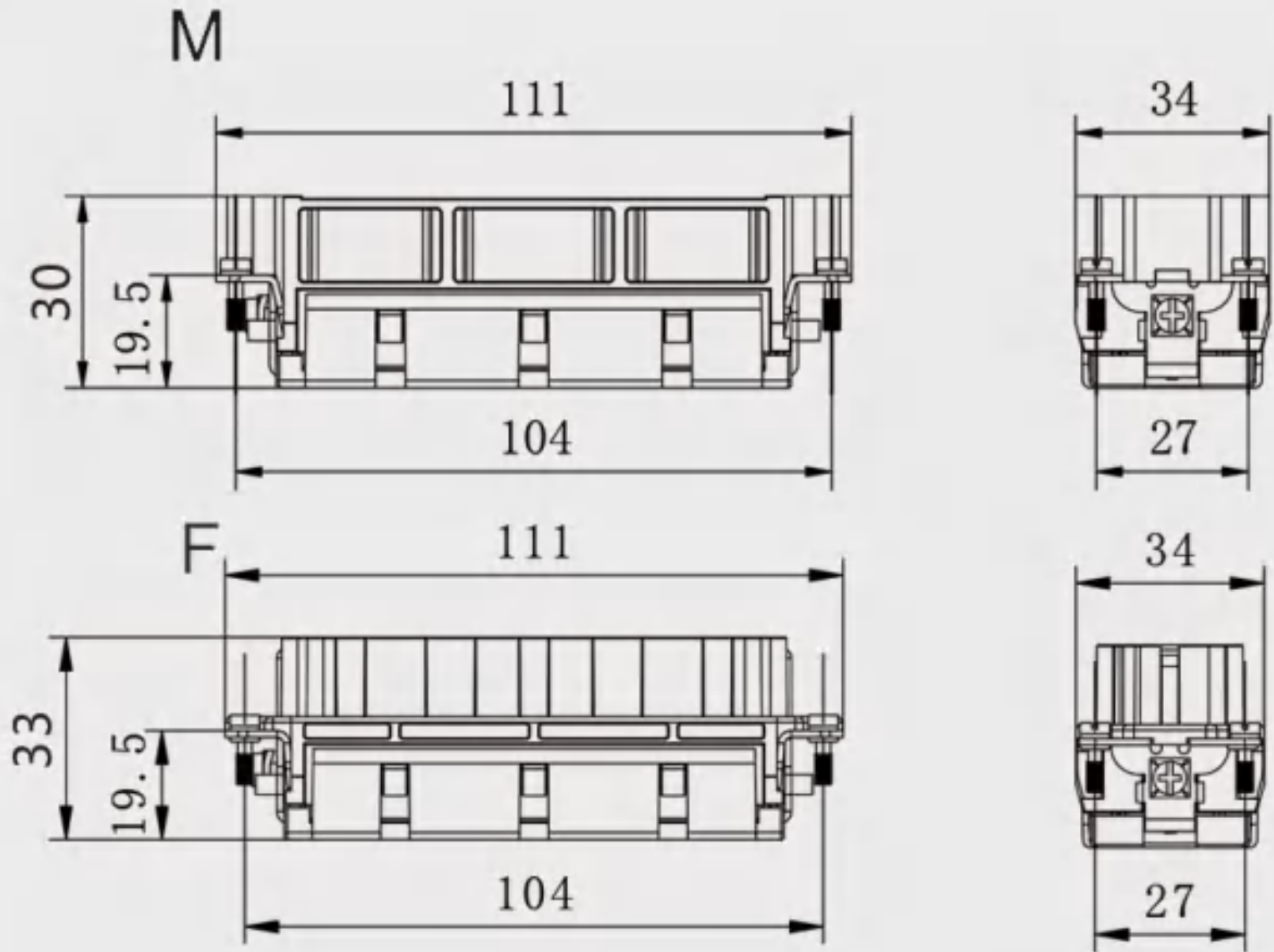
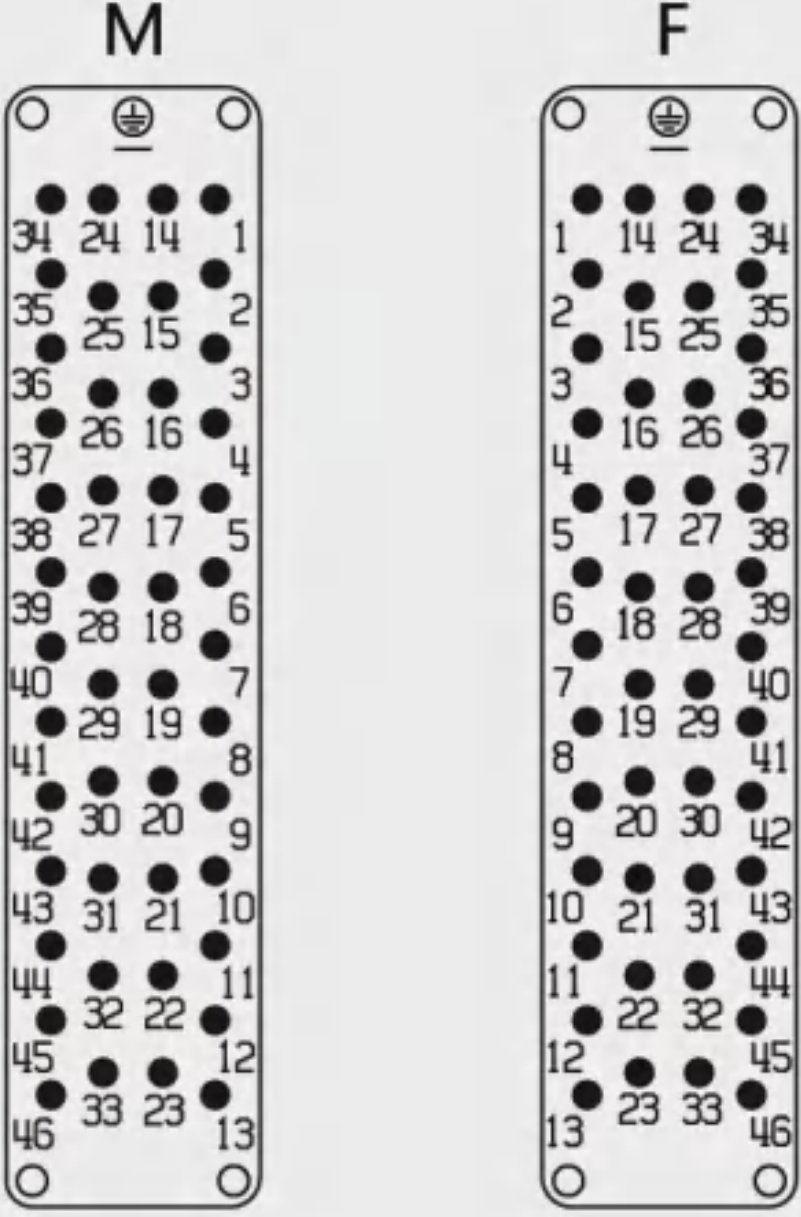
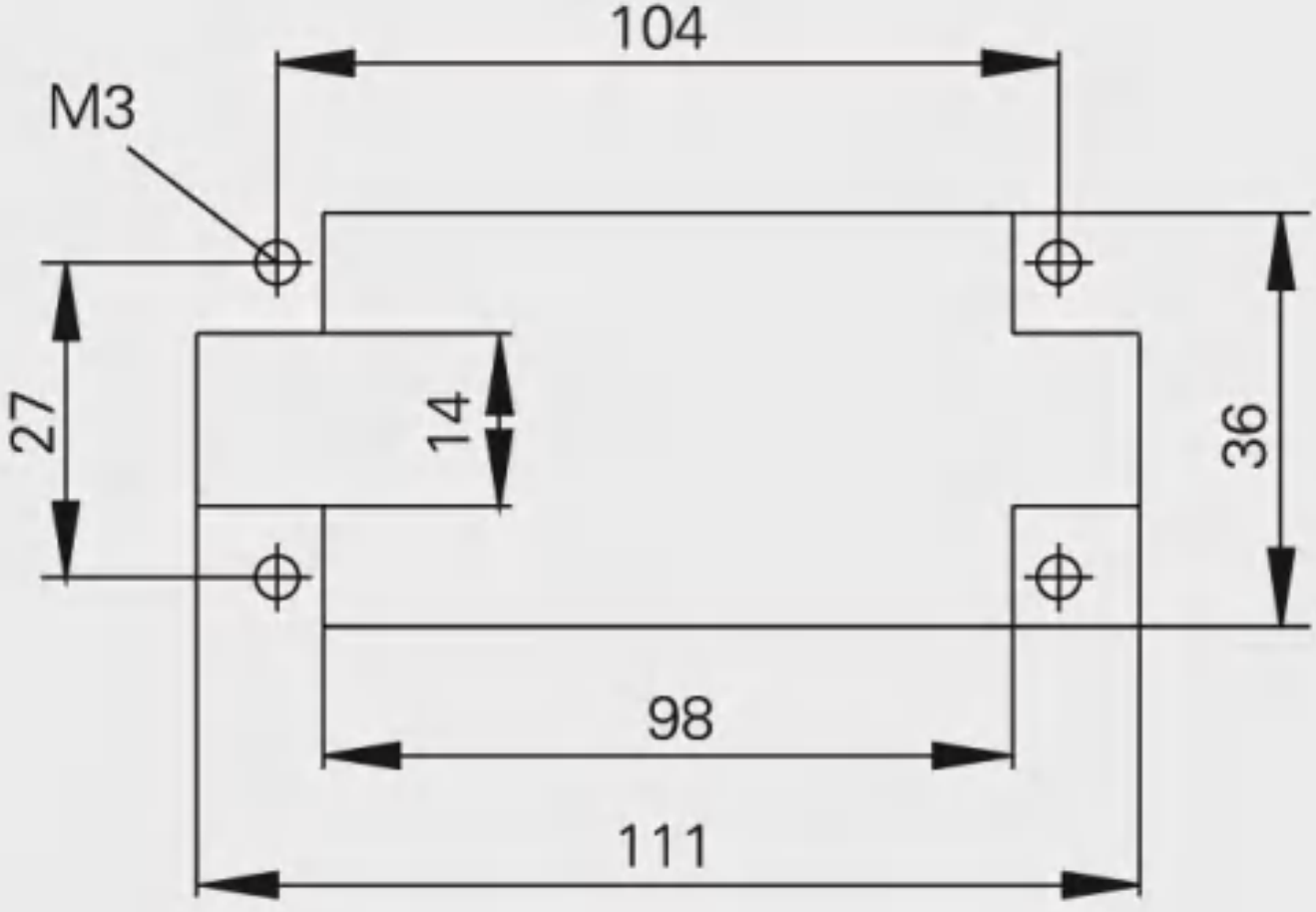
HEE-32+

For **H16B**,Hood/Housing Please Refer Page No. 171-185

Identification	Type	Order No.	Drawing	Dimensions mm																																
Crimp connection																																				
	HEE-032-M	3 032 030 20 101	  Maximum distance between inserts 21mm	 																																
	HEE-032-F	3 032 030 20 102																																		
16A Crimp contacts																																				
Male crimp contacts	 																																			
Female crimp contacts	 																																			
<table><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr><tr><td>ESM-0.37</td><td>4 016 110 10 037</td><td>EGM-0.37</td><td>4 016 210 10 037</td></tr><tr><td>ESM-0.5</td><td>4 016 110 10 050</td><td>EGM-0.5</td><td>4 016 210 10 050</td></tr><tr><td>ESM-0.75</td><td>4 016 110 10 075</td><td>EGM-0.75</td><td>4 016 210 10 075</td></tr><tr><td>ESM-1.0</td><td>4 016 110 10 100</td><td>EGM-1.0</td><td>4 016 210 10 100</td></tr><tr><td>ESM-1.5</td><td>4 016 110 10 150</td><td>EGM-1.5</td><td>4 016 210 10 150</td></tr><tr><td>ESM-2.5</td><td>4 016 110 10 250</td><td>EGM-2.5</td><td>4 016 210 10 250</td></tr><tr><td>ESM-4.0</td><td>4 016 110 10 400</td><td>EGM-4.0</td><td>4 016 210 10 400</td></tr></table>			Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037	ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050	ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075	ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100	ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150	ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250	ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400	 Panel cutout drawing	
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																																	
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037																																	
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050																																	
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075																																	
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100																																	
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150																																	
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250																																	
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400																																	
<table><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr><tr><td>ESF-0.37</td><td>4 016 110 20 037</td><td>EGF-0.37</td><td>4 016 210 20 037</td></tr><tr><td>ESF-0.5</td><td>4 016 110 20 050</td><td>EGF-0.5</td><td>4 016 210 20 050</td></tr><tr><td>ESF-0.75</td><td>4 016 110 20 075</td><td>EGF-0.75</td><td>4 016 210 20 075</td></tr><tr><td>ESF-1.0</td><td>4 016 110 20 100</td><td>EGF-1.0</td><td>4 016 210 20 100</td></tr><tr><td>ESF-1.5</td><td>4 016 110 20 150</td><td>EGF-1.5</td><td>4 016 210 20 150</td></tr><tr><td>ESF-2.5</td><td>4 016 110 20 250</td><td>EGF-2.5</td><td>4 016 210 20 250</td></tr><tr><td>ESF-4.0</td><td>4 016 110 20 400</td><td>EGF-4.0</td><td>4 016 210 20 400</td></tr></table>			Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037	ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050	ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075	ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100	ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150	ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250	ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400		
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																																	
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037																																	
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050																																	
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075																																	
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100																																	
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150																																	
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250																																	
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400																																	

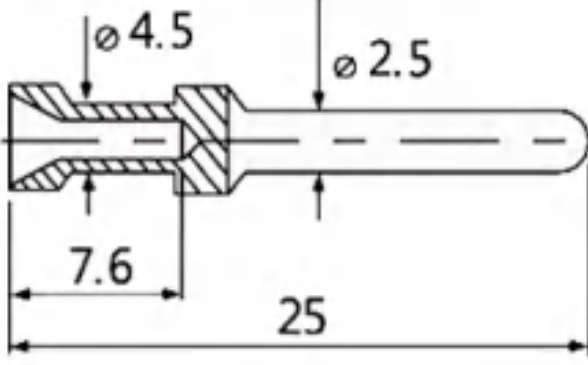
HEE-46+

For H24B,Hood/Housing Please Refer Page No. 186-201

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection 	HEE-046-M	3 046 030 20 101	Size  Maximum distance between inserts 21mm  Contacts arrangement view from termination side  Panel cutout drawing	Dimensions mm
	HEE-046-F	3 046 030 20 102		

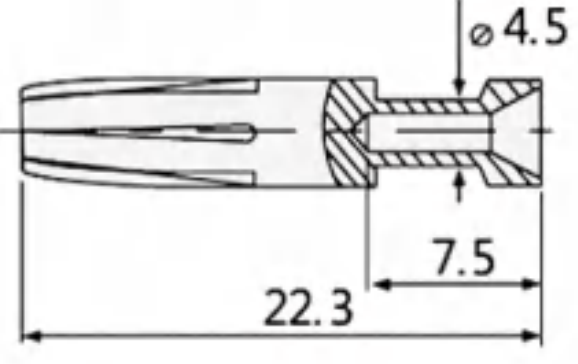
16A Crimp contacts

Male crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts

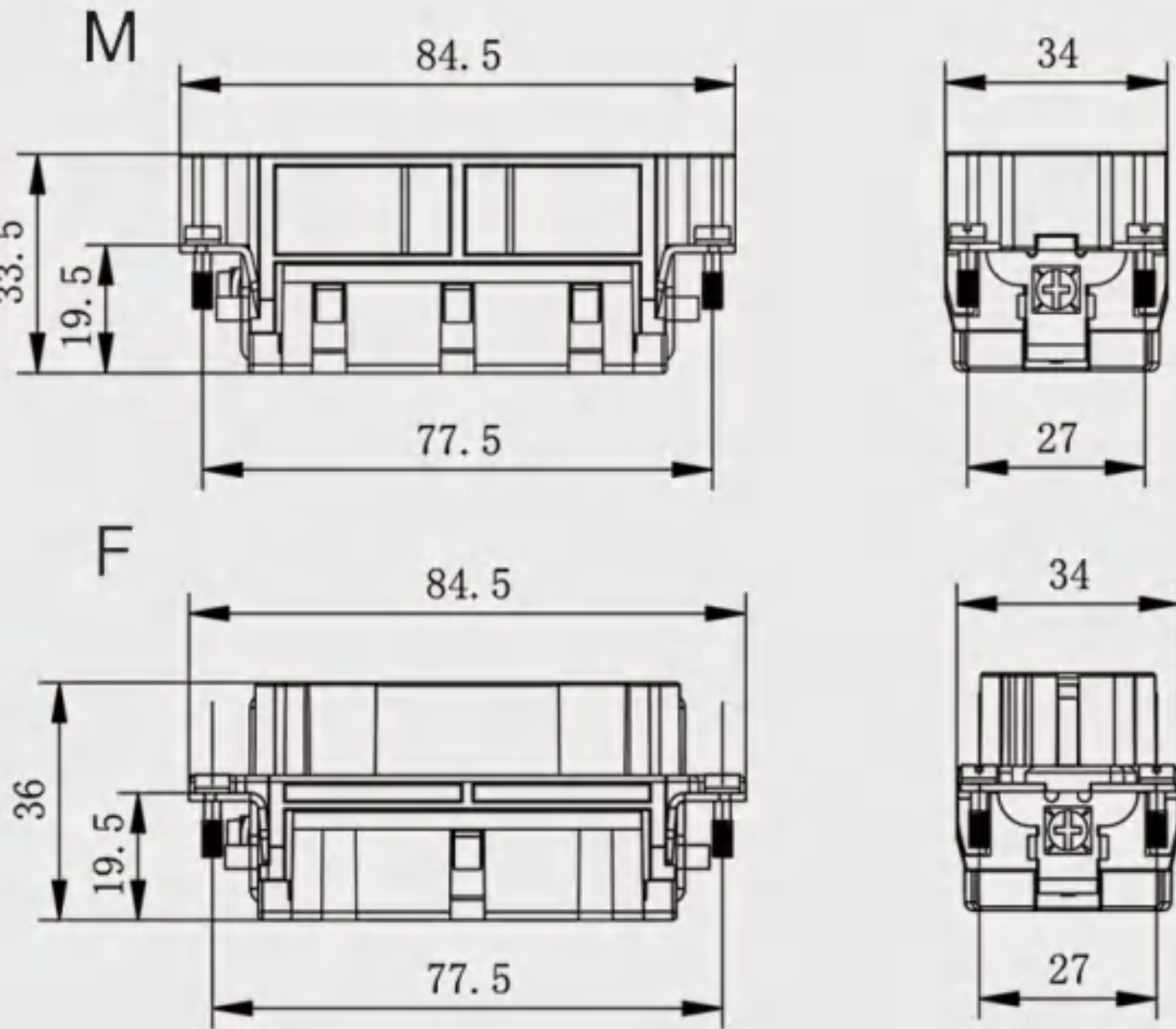
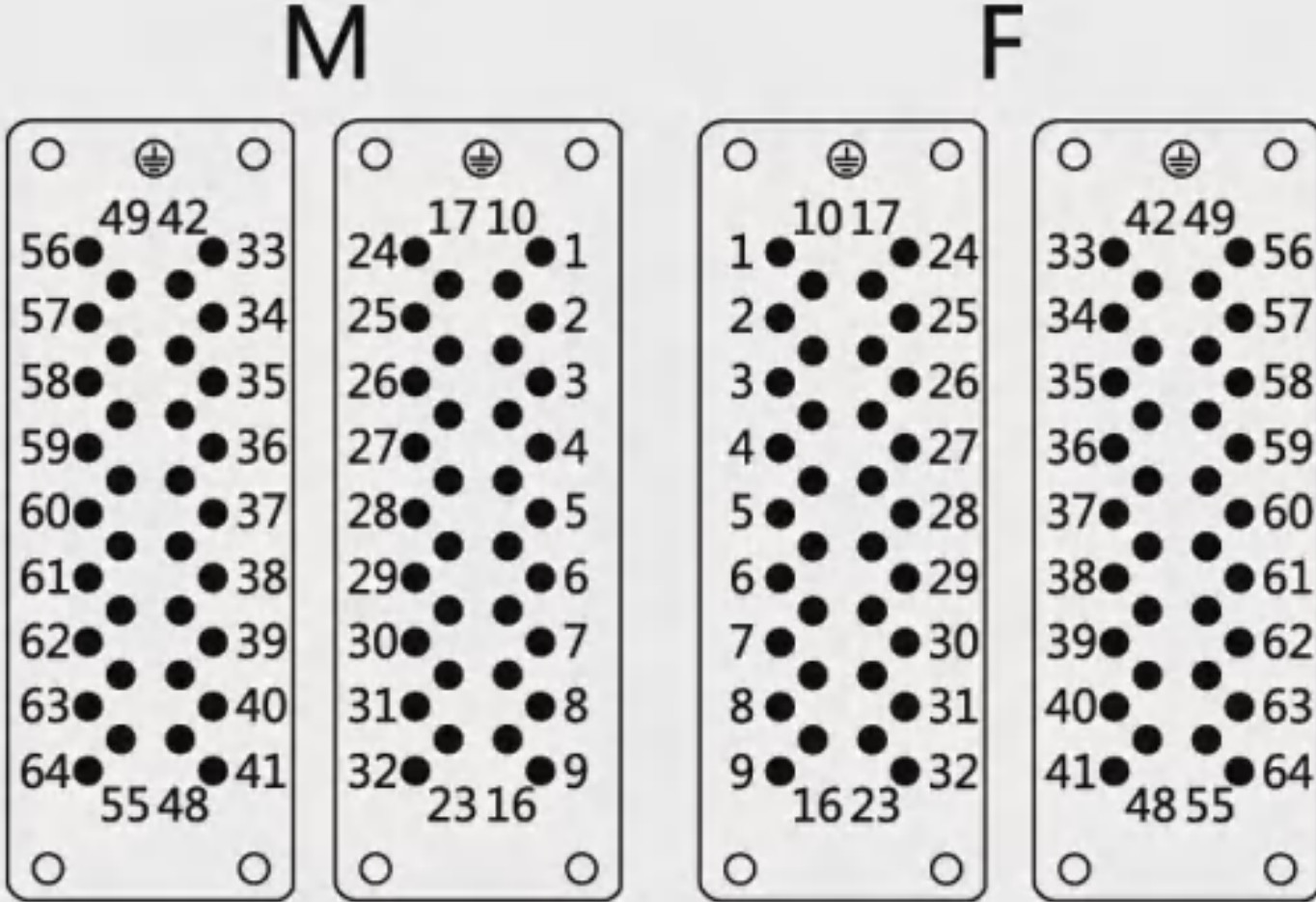
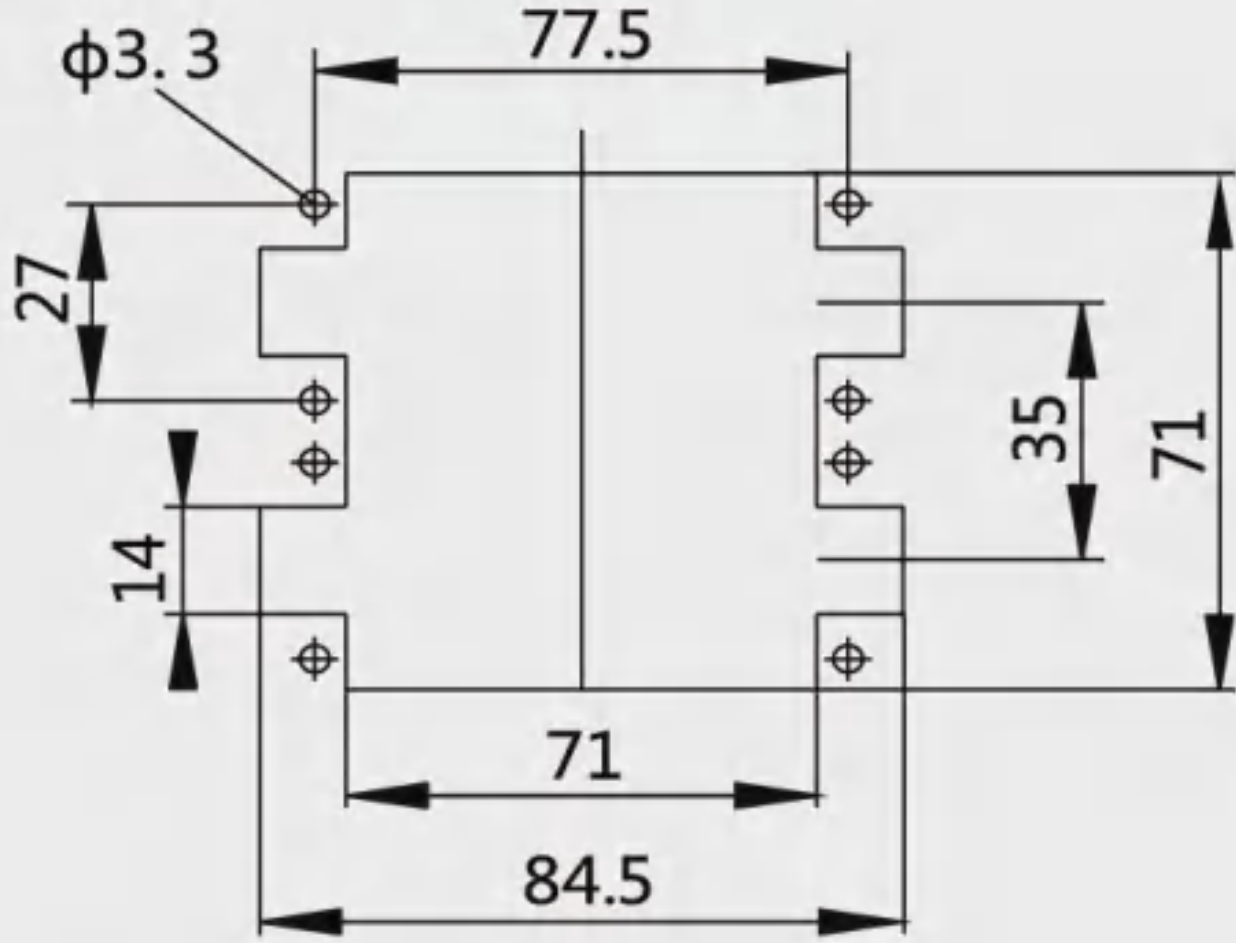
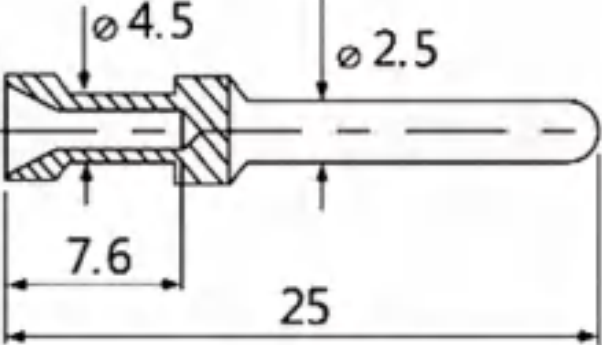
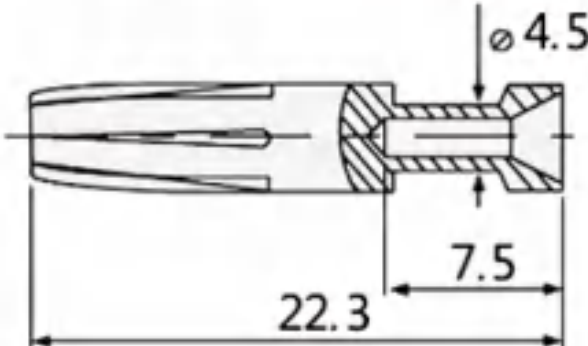


Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

HEE

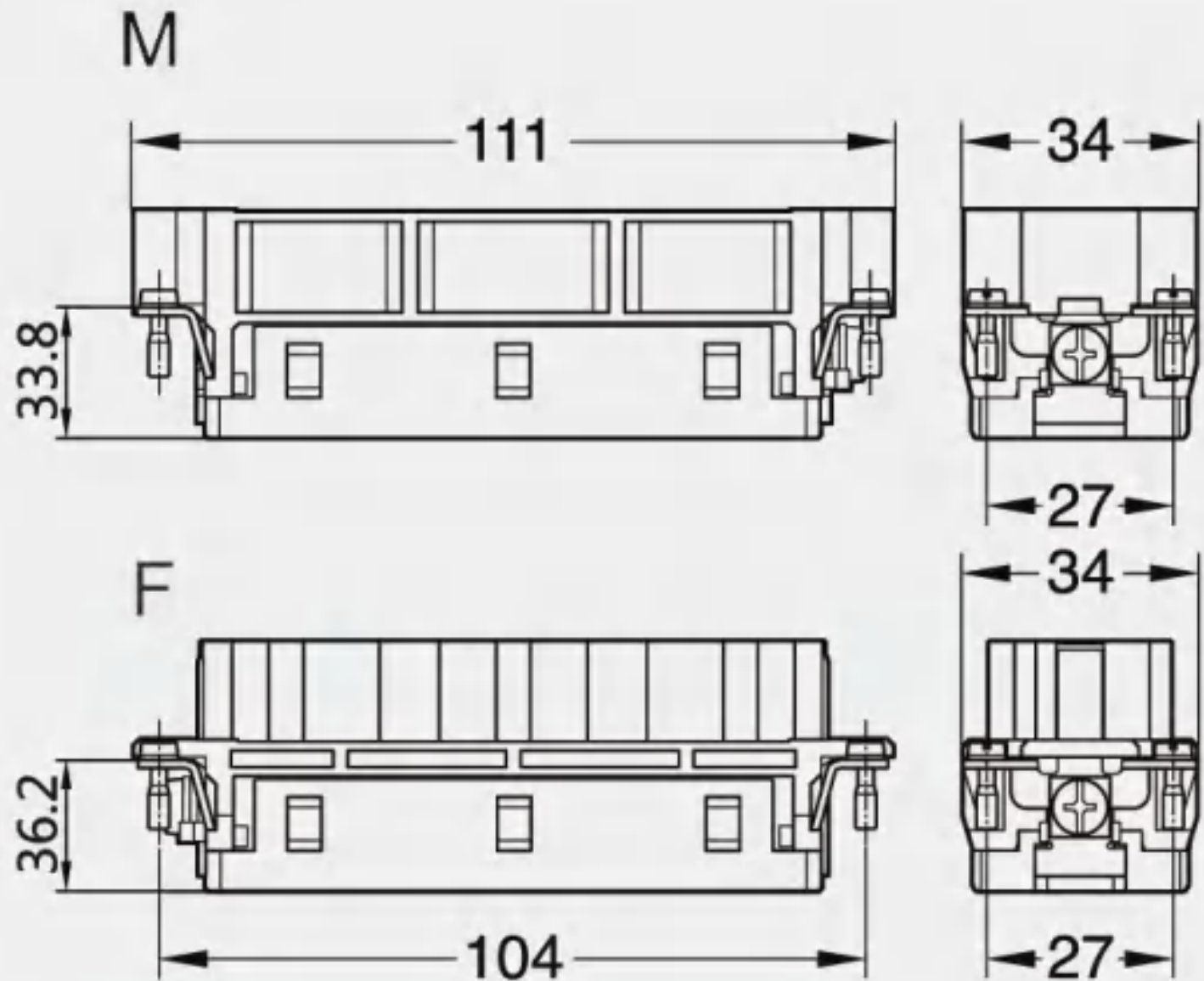
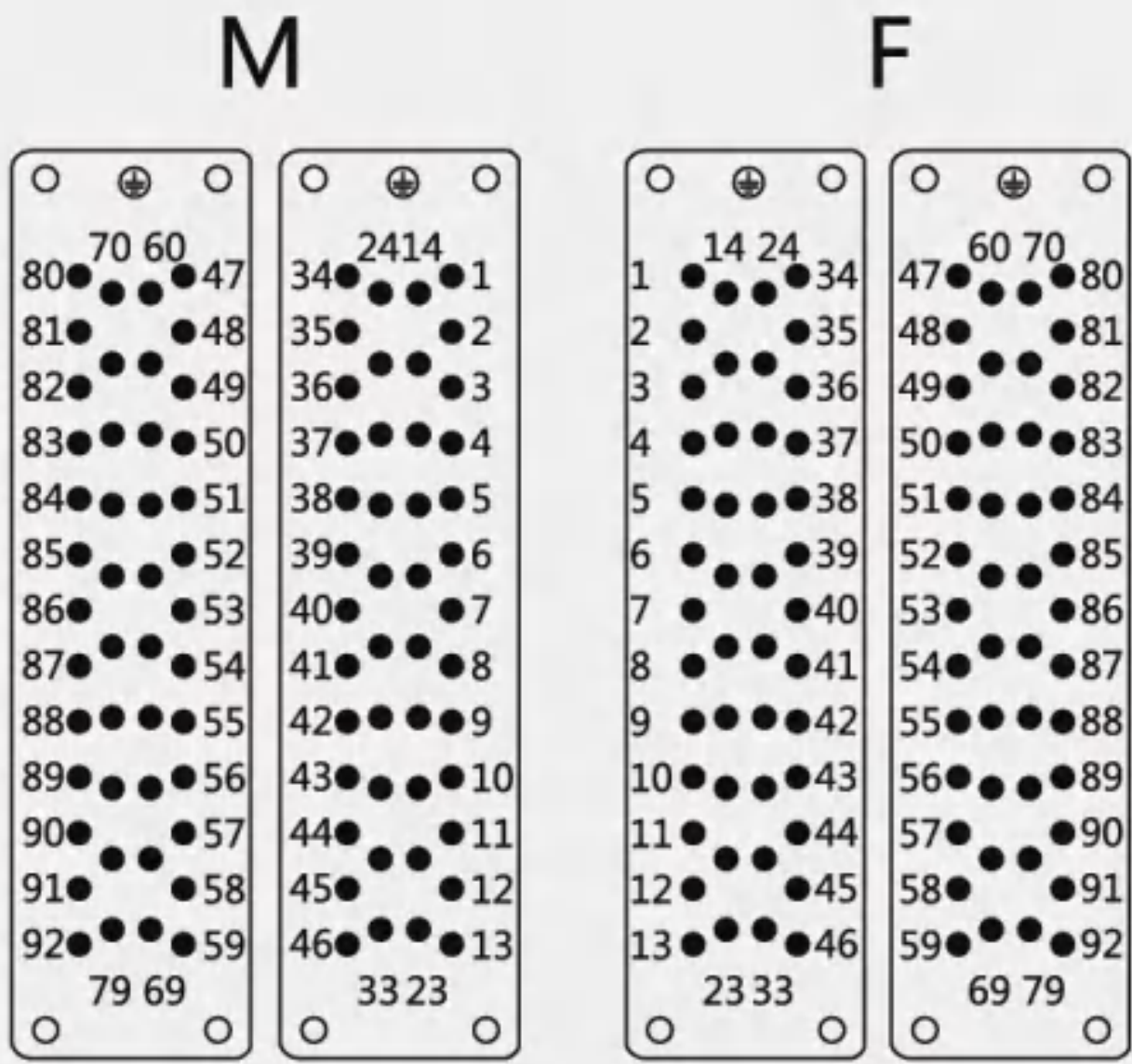
HEE-64+

For H32B,Hood/Housing Please Refer Page No. 202-207

Identification	Type	Order No.	Drawing	Dimensions mm																																
Crimp connection 	HEE-032-M HEE-064-M(33-64)	3 032 030 20 101 3 064 030 20 101	Size  Maximum distance between inserts 21mm 																																	
	HEE-032-F HEE-064-F(33-64)	3 032 030 20 102 3 064 030 20 102																																		
16A Crimp contacts Male crimp contacts  																																				
<table><thead><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr></thead><tbody><tr><td>ESM-0.37</td><td>4 016 110 10 037</td><td>EGM-0.37</td><td>4 016 210 10 037</td></tr><tr><td>ESM-0.5</td><td>4 016 110 10 050</td><td>EGM-0.5</td><td>4 016 210 10 050</td></tr><tr><td>ESM-0.75</td><td>4 016 110 10 075</td><td>EGM-0.75</td><td>4 016 210 10 075</td></tr><tr><td>ESM-1.0</td><td>4 016 110 10 100</td><td>EGM-1.0</td><td>4 016 210 10 100</td></tr><tr><td>ESM-1.5</td><td>4 016 110 10 150</td><td>EGM-1.5</td><td>4 016 210 10 150</td></tr><tr><td>ESM-2.5</td><td>4 016 110 10 250</td><td>EGM-2.5</td><td>4 016 210 10 250</td></tr><tr><td>ESM-4.0</td><td>4 016 110 10 400</td><td>EGM-4.0</td><td>4 016 210 10 400</td></tr></tbody></table> Female crimp contacts  					Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037	ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050	ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075	ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100	ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150	ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250	ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																																	
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037																																	
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050																																	
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075																																	
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100																																	
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150																																	
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250																																	
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400																																	
<table><thead><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr></thead><tbody><tr><td>ESF-0.37</td><td>4 016 110 20 037</td><td>EGF-0.37</td><td>4 016 210 20 037</td></tr><tr><td>ESF-0.5</td><td>4 016 110 20 050</td><td>EGF-0.5</td><td>4 016 210 20 050</td></tr><tr><td>ESF-0.75</td><td>4 016 110 20 075</td><td>EGF-0.75</td><td>4 016 210 20 075</td></tr><tr><td>ESF-1.0</td><td>4 016 110 20 100</td><td>EGF-1.0</td><td>4 016 210 20 100</td></tr><tr><td>ESF-1.5</td><td>4 016 110 20 150</td><td>EGF-1.5</td><td>4 016 210 20 150</td></tr><tr><td>ESF-2.5</td><td>4 016 110 20 250</td><td>EGF-2.5</td><td>4 016 210 20 250</td></tr><tr><td>ESF-4.0</td><td>4 016 110 20 400</td><td>EGF-4.0</td><td>4 016 210 20 400</td></tr></tbody></table>			Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037	ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050	ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075	ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100	ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150	ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250	ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400		
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																																	
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037																																	
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050																																	
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075																																	
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100																																	
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150																																	
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250																																	
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400																																	

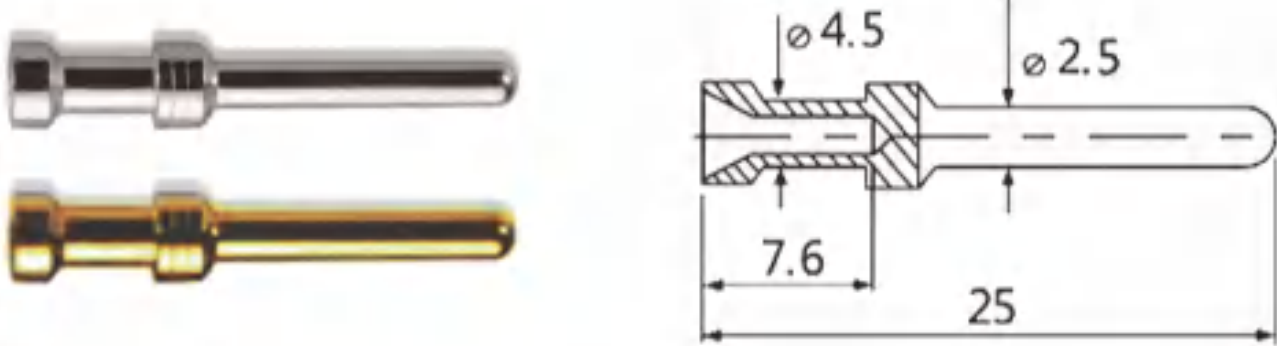
HEE-92+

For **H48B**,Hood/Housing Please Refer Page No.208-209

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection 	HEE-046-M HEE-092-M(47-92)	3 046 030 20 101 3 092 030 20 101	Size  Maximum distance between inserts 21mm 	Dimensions mm
	HEE-046-F HEE-092-F(47-92)	3 046 030 20 102 3 092 030 20 102		

16A Crimp contacts

Male crimp contacts



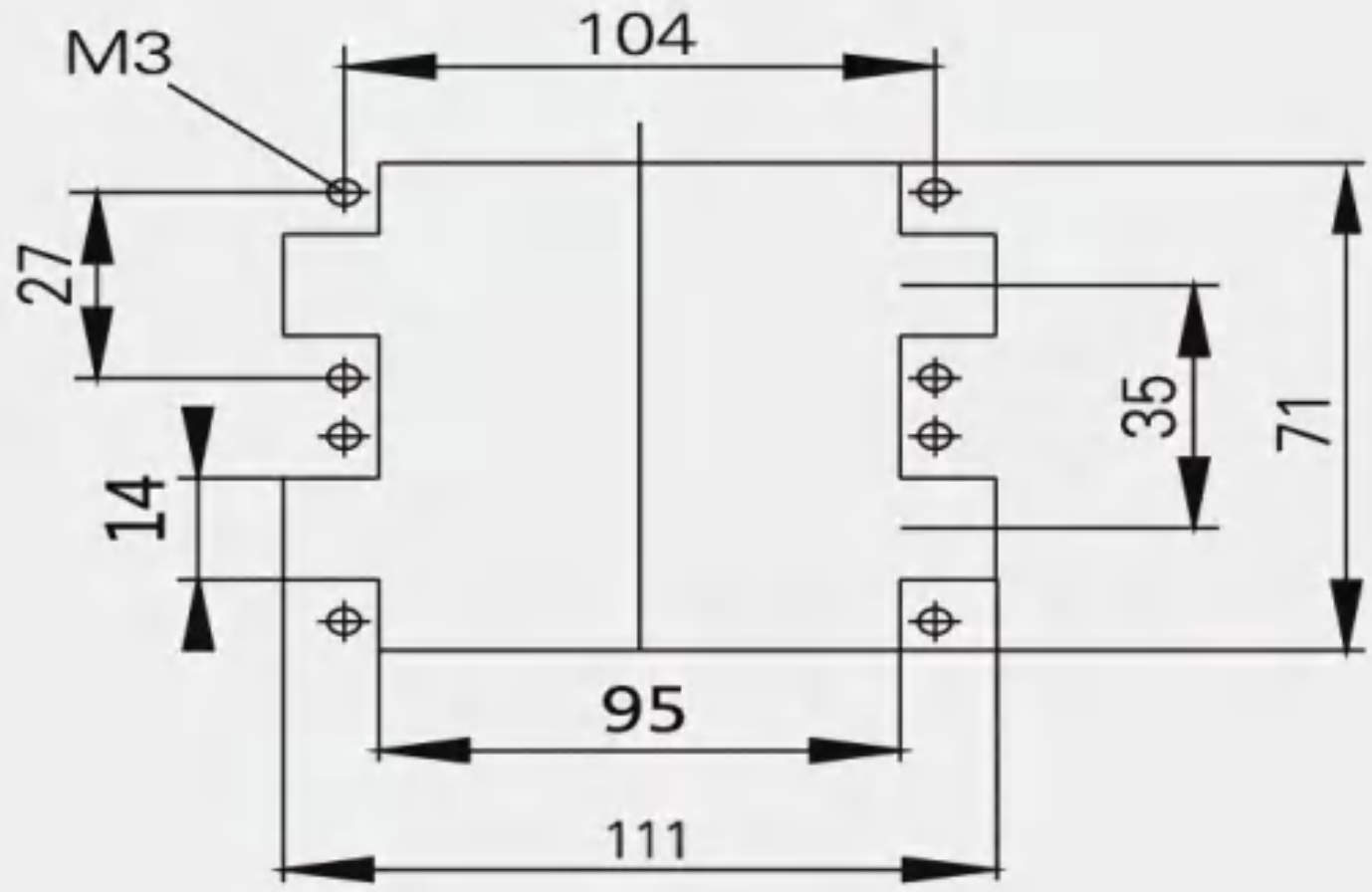
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Female crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

Contacts arrangement view from termination side



Panel cutout drawing



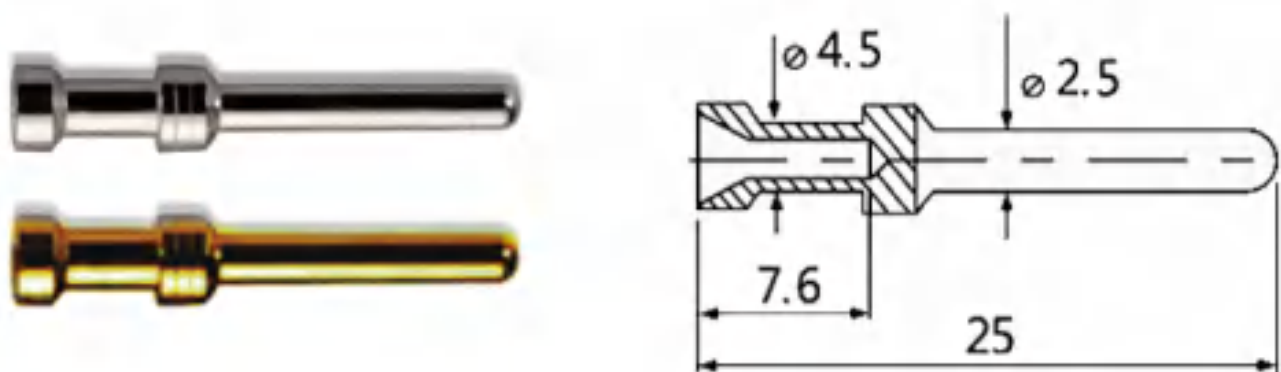
HEE-40+

For H16B,Hood/Housing Please Refer Page No. 171-185

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection		HEE-040-MC	3 040 030 201 01	
	HEE-040-FC	3 040 030 201 02		

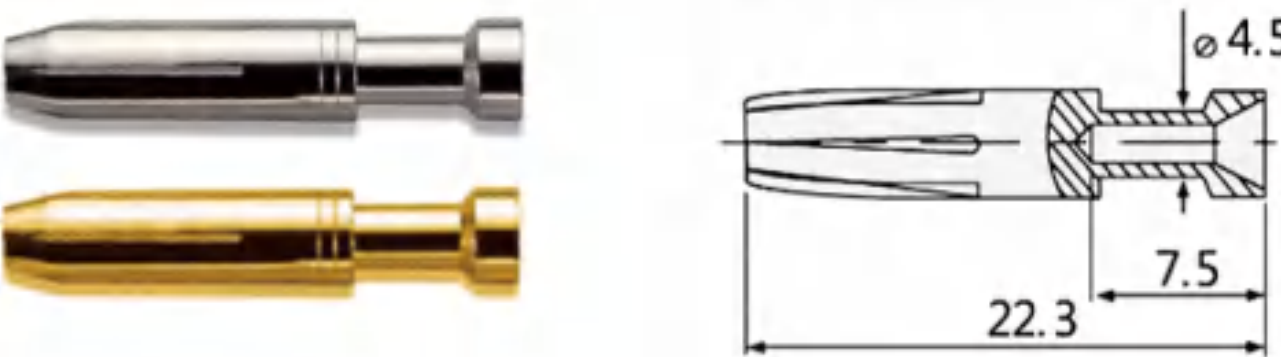
16A Crimp contacts

Male crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

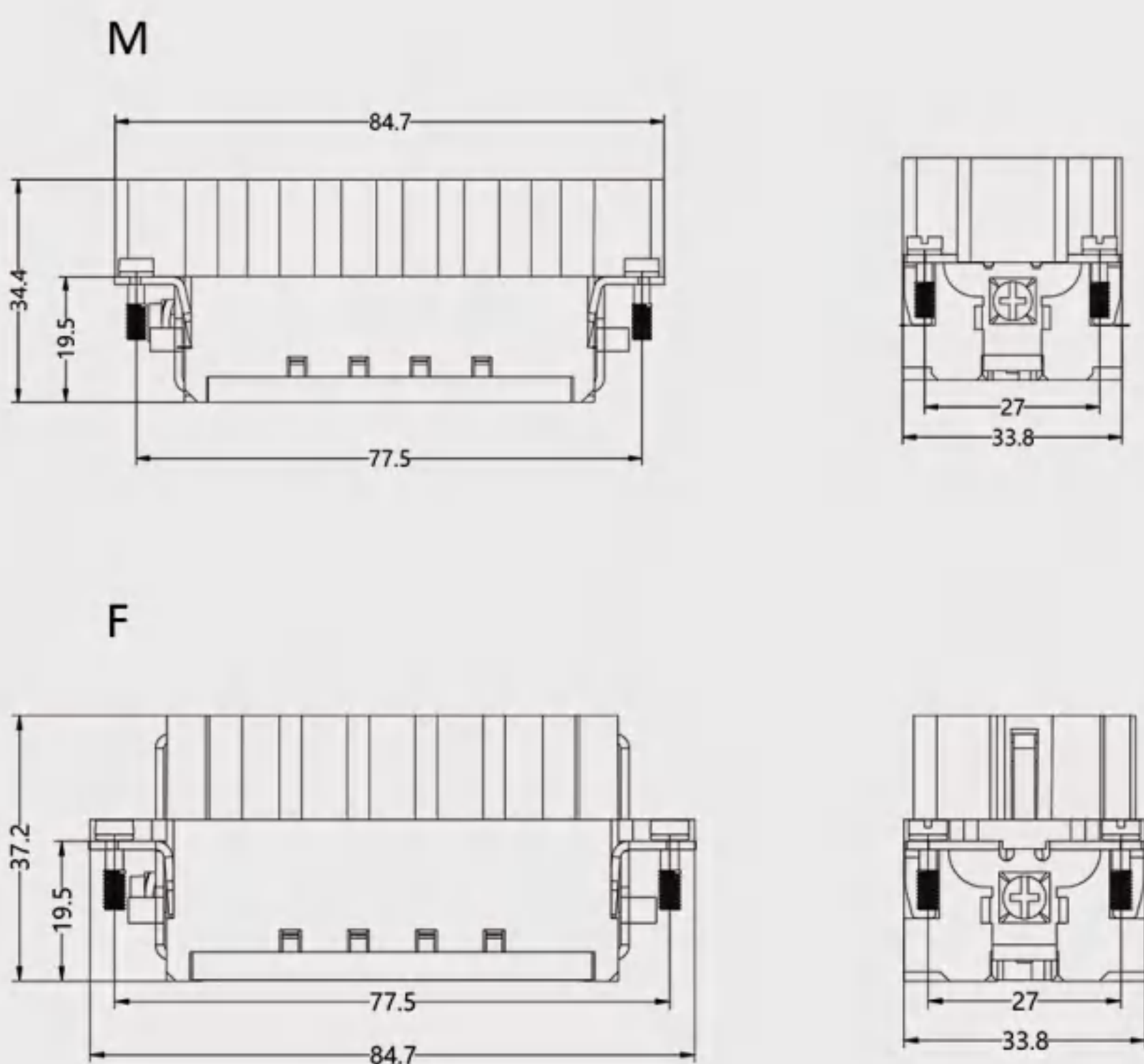
Female crimp contacts



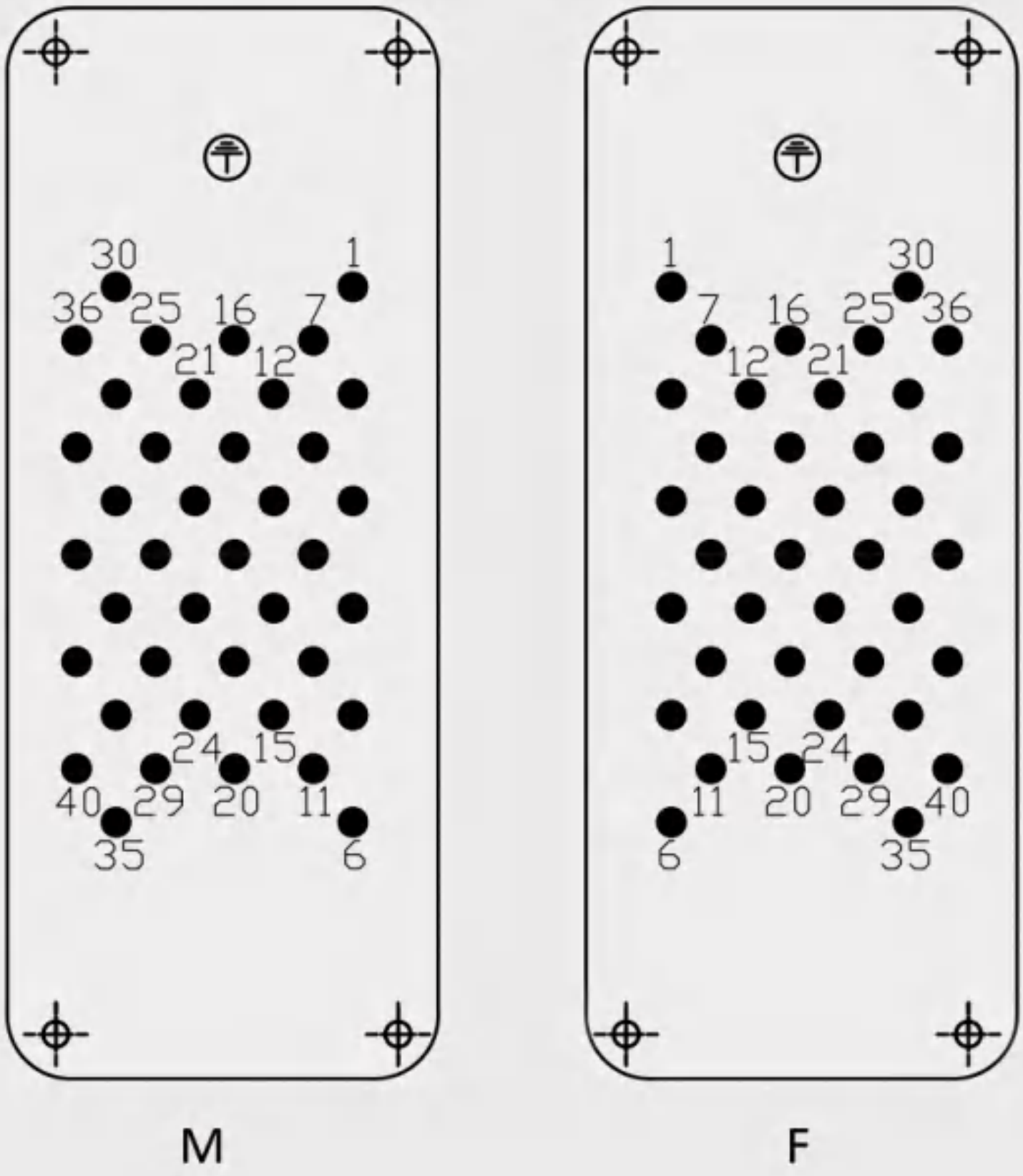
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

Accessories

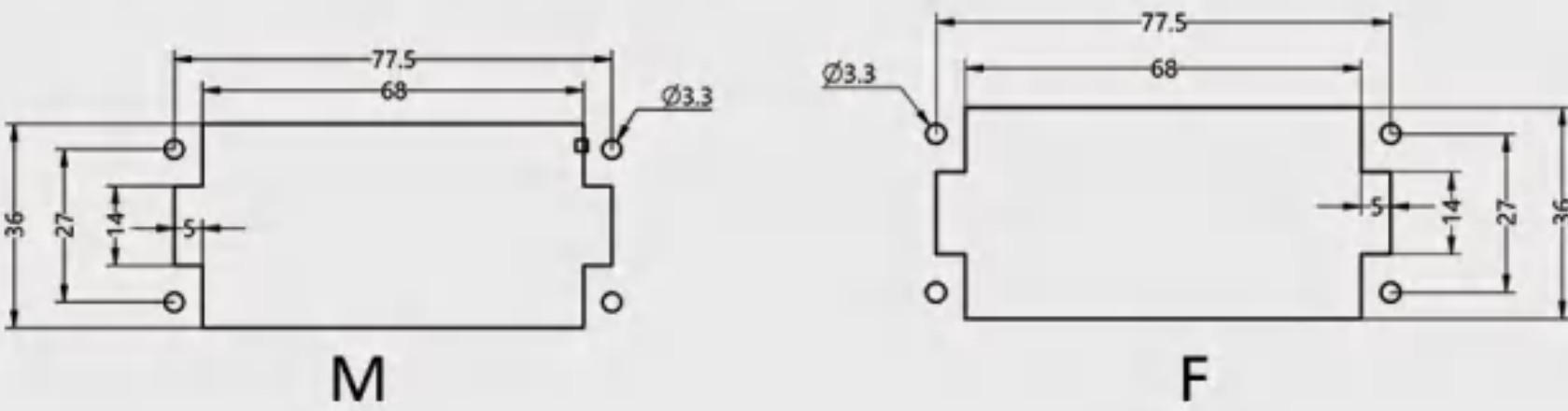
Tool	Wire gauge	Designation	Order No.
Crimping tool	0.37-4mm ²	WFT-LY01	5 000 100 00 001
Contact removal tool	16A Terminal	WFT-HEE01	5 000 200 00 002



Pin Sorting

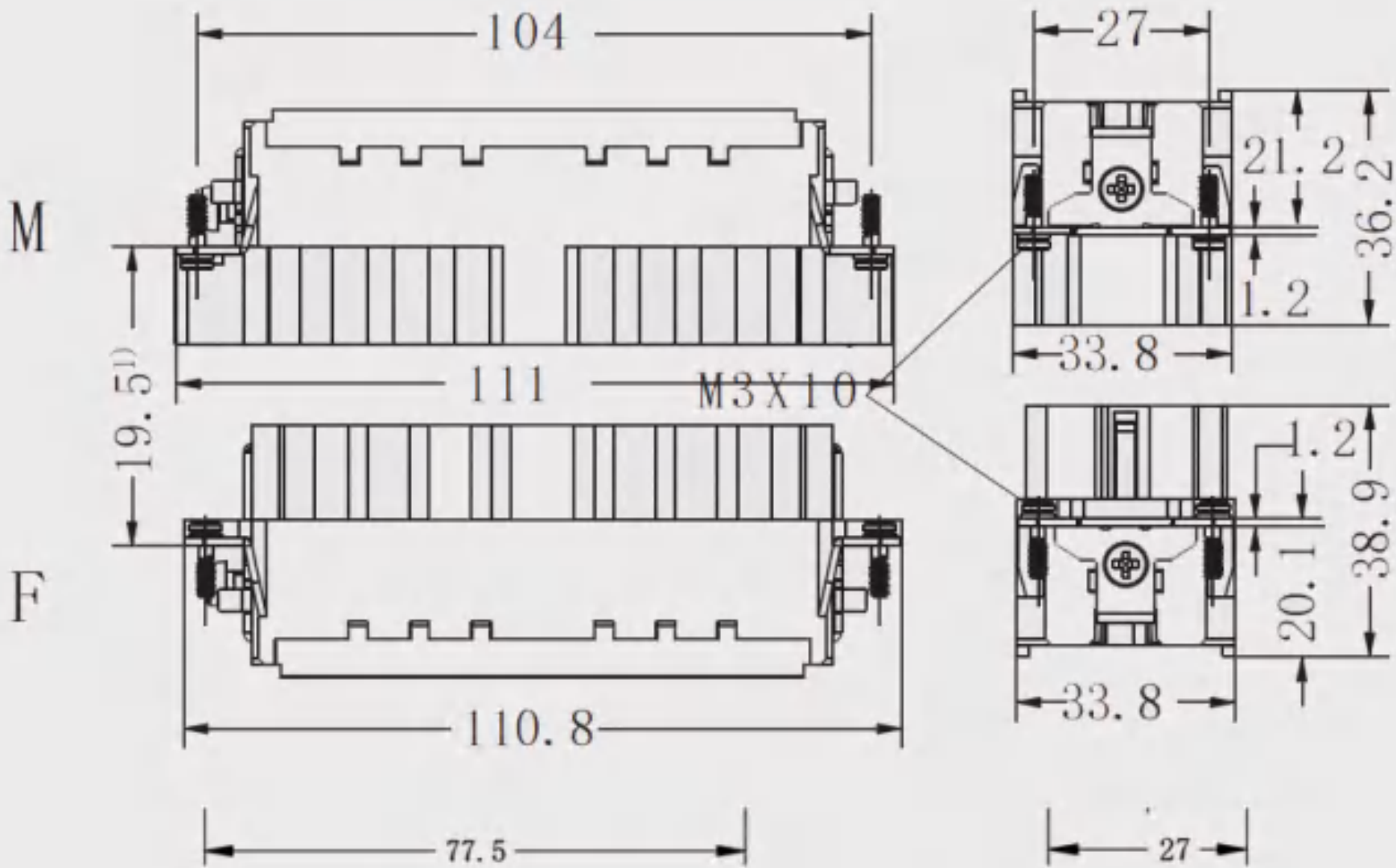
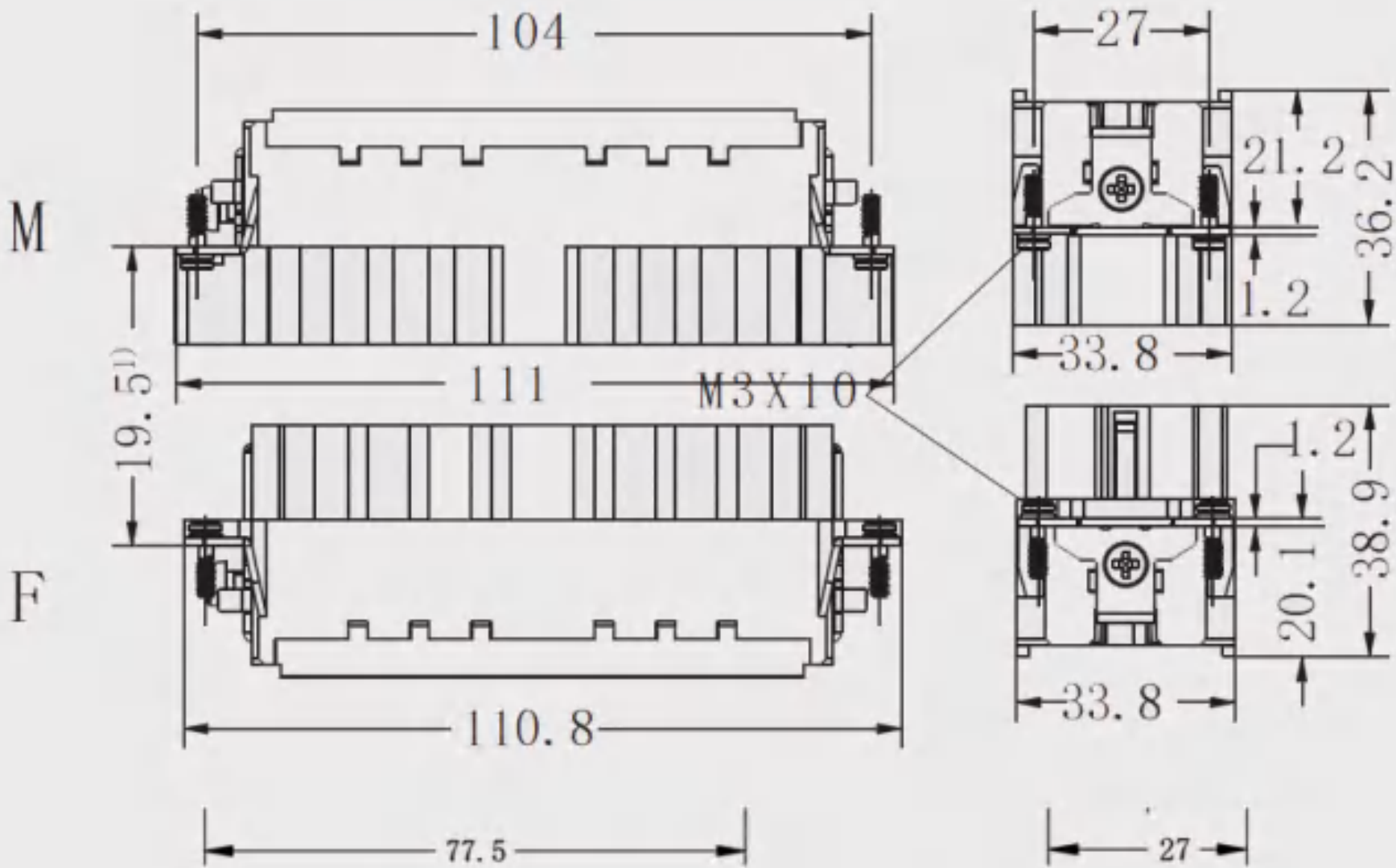
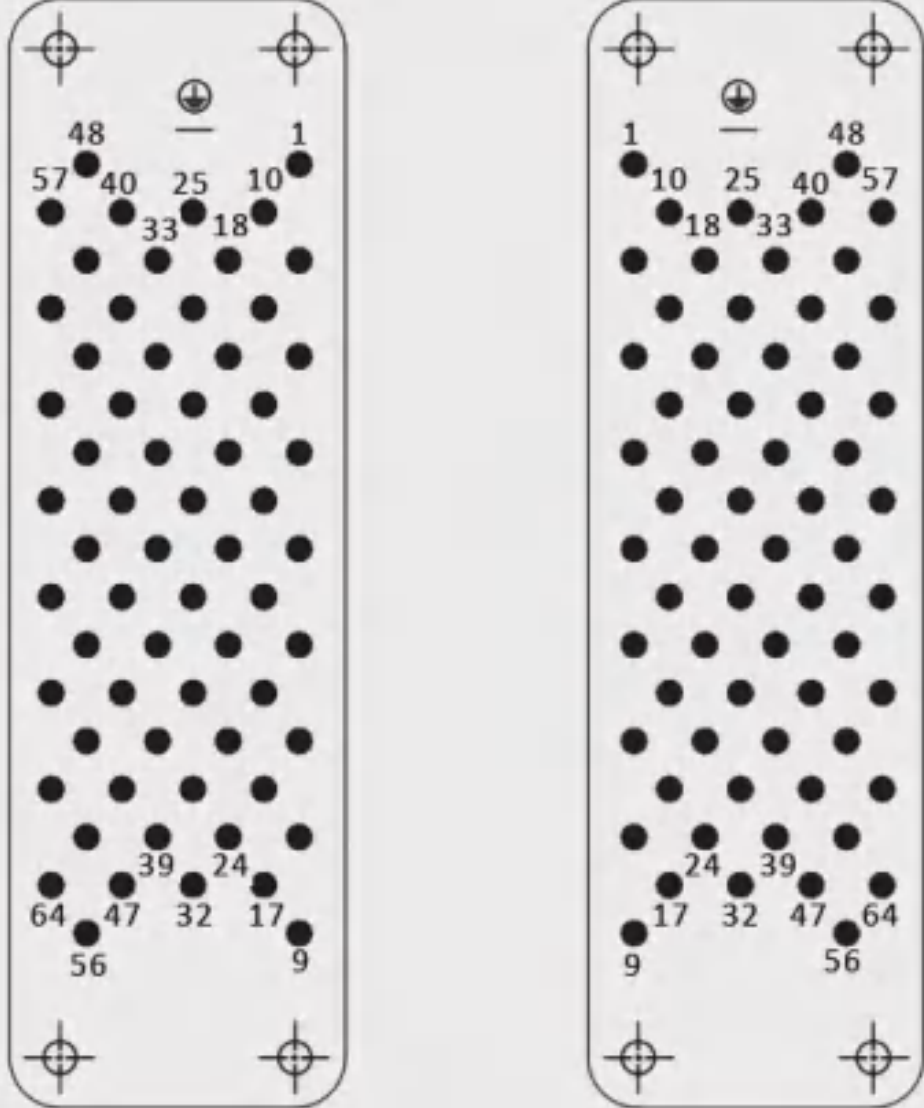
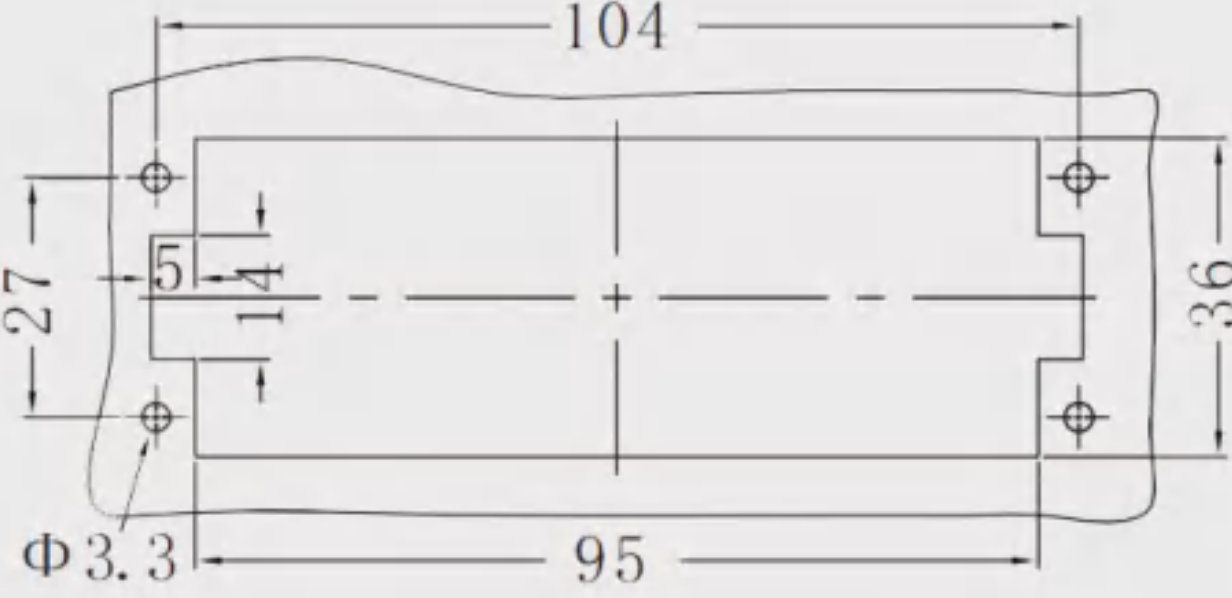


Panel opening diagram



HEE-64+

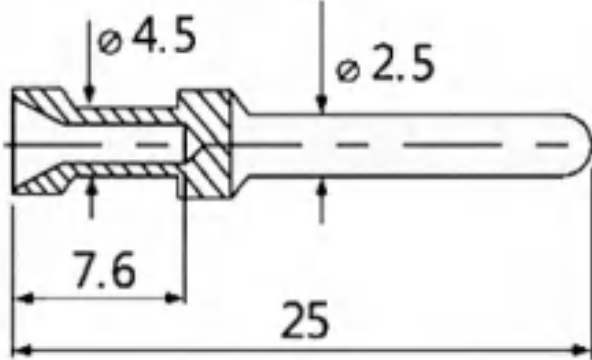
For H24B,Hood/Housing Please Refer Page No. 186-201

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection 	HEE-064-MC	3 064 030 881 01	M  F	 Maximum distance between inserts 21mm M F  Contacts arrangement view from termination side  Panel cutout drawing
	HEE-064-FC	3 064 030 881 02		

16A Crimp contacts

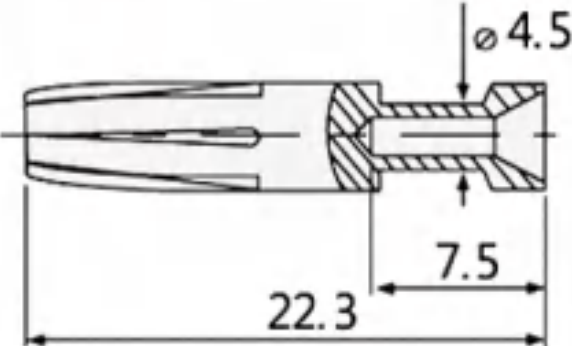
Male crimp contacts





Female crimp contacts





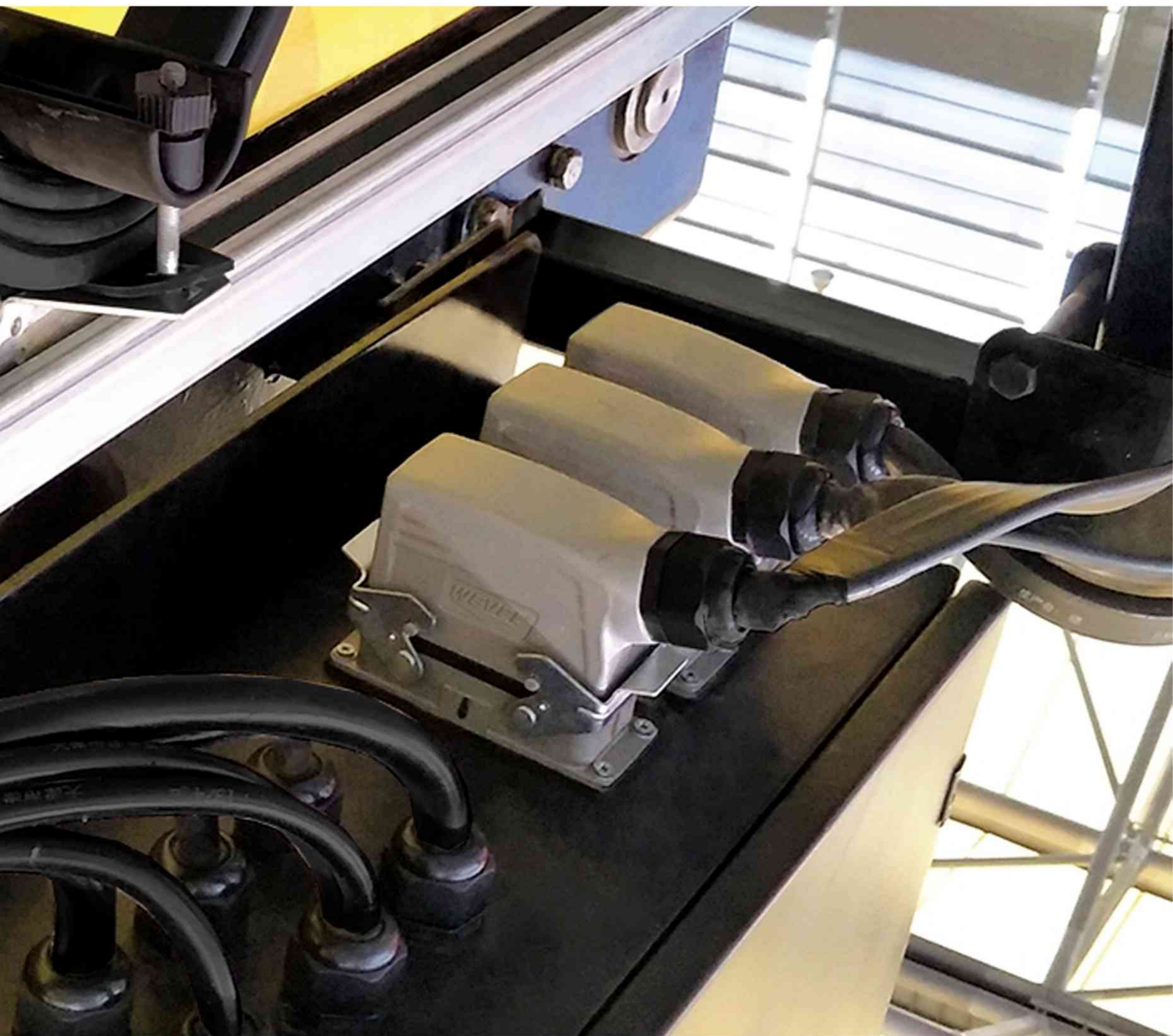
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400

Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400

HEE

WEVEL

Page 43





HD

Ultra-high density connector

HD Series

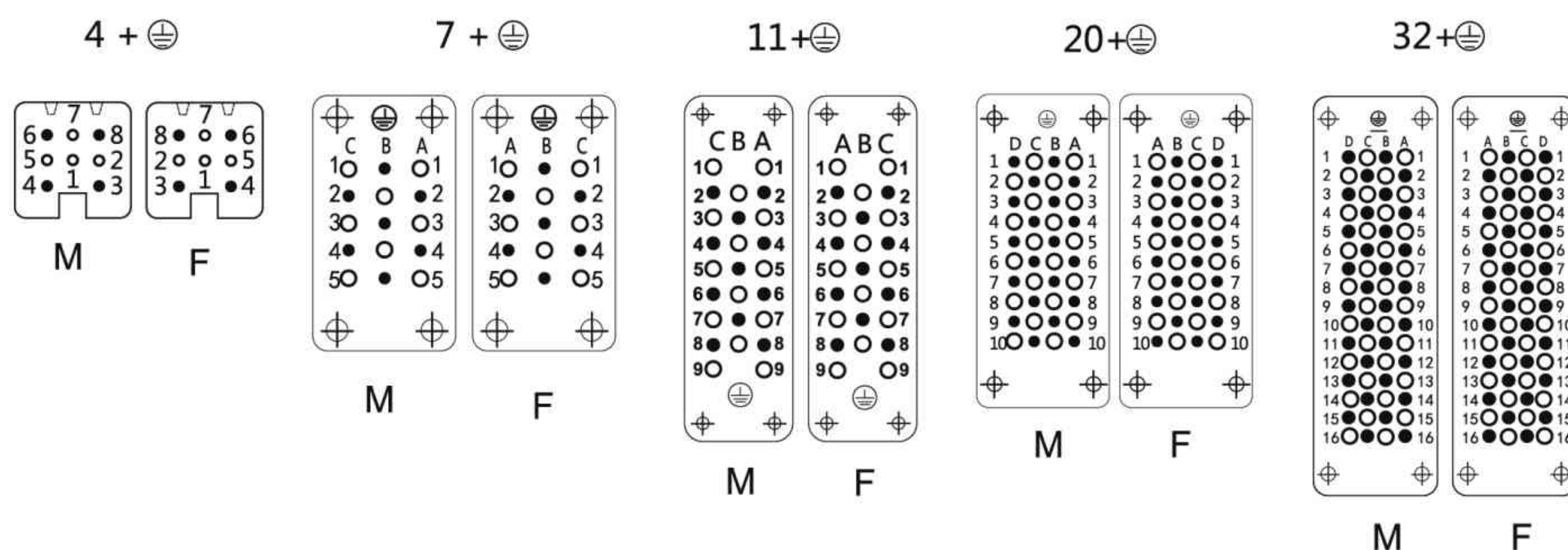
By optimizing the HD pin layout, the operating voltage can be raised to 500V.

When the HD connector assembly is fully populated with pins, its operating voltage can reach 250 V at insulation class 3(C). However, with pin arrangement optimization, the permissible operating voltage can be increased to 500 V under the same insulation class.

Contact arrangement view from termination side.

10A 500V 6KV 3

HD



● Working contact

○ Without contact

M-Male insert

F-Female insert

HD technical characteristics



HD technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

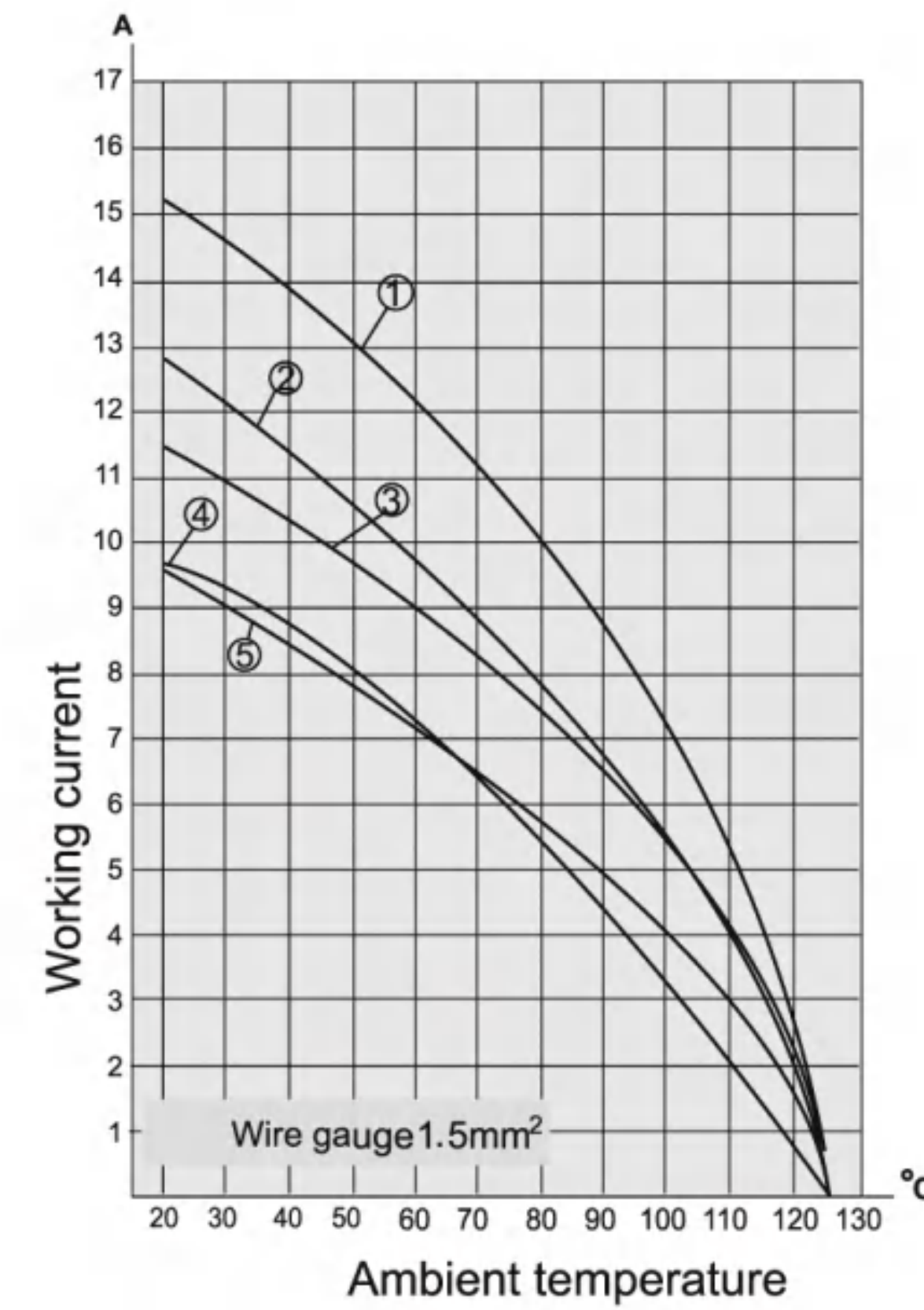
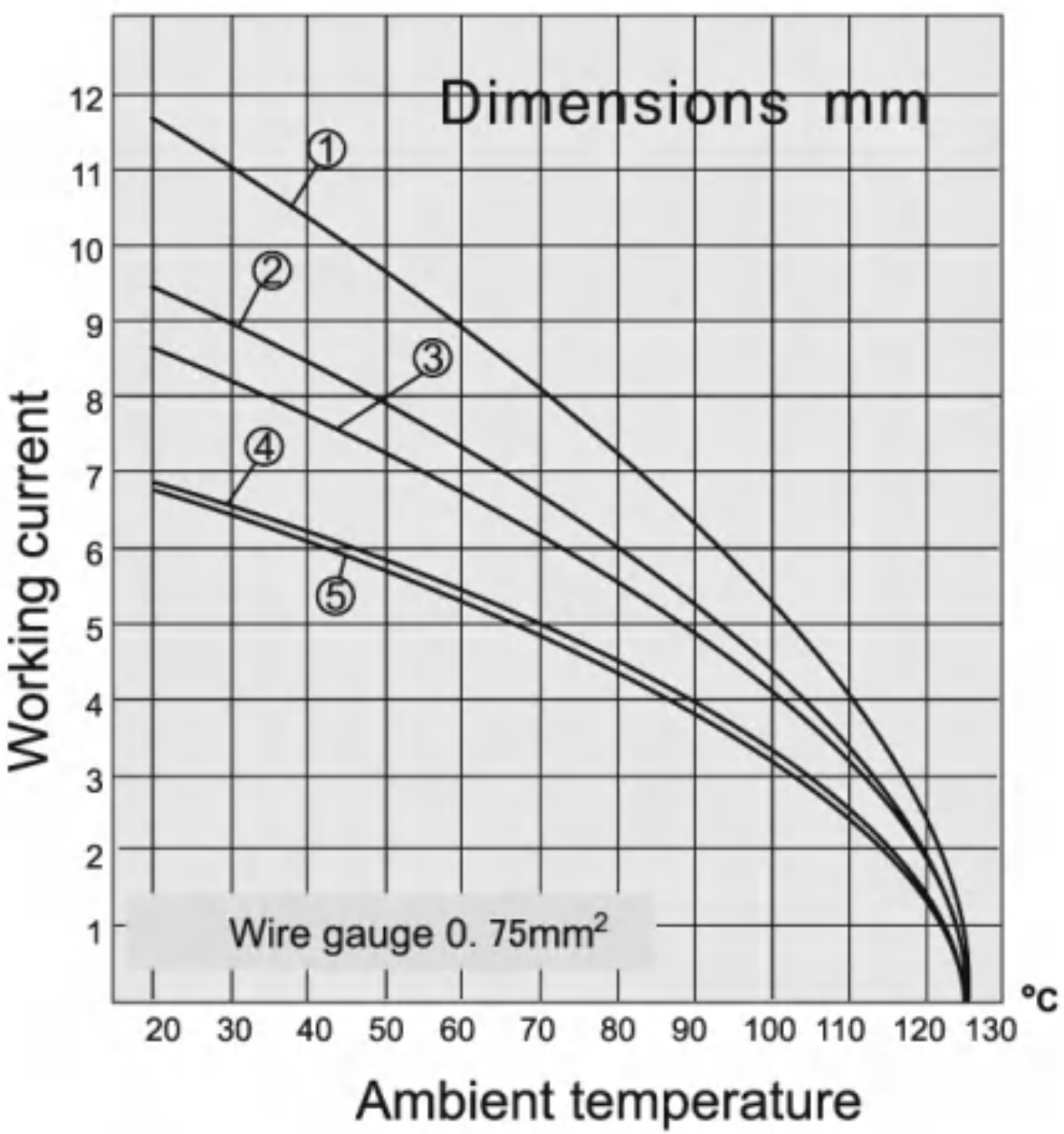
DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inserts

Number of contacts	15,25,40,50(2x25) 64,80(2x40),128(2x64)+PE
Working current (See current carrying capacity)	10A
Working voltage -Pollution degree 2	250V 230/400V
Pollution degree	3
Rated impulse voltage	4KV
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600V
Mechanical working life(mating cycles)	≥ 500

Contacts

Material	Copper alloy
Surface	Hard silver-plated Hard gold-plated
Contact resistance	$\leq 3m\Omega$
Wiring method	Crimp connection
Wire gauge	0.14-2.5mm ² AWG26-14



①HD-007 ②HD-015
③HD-025 ④HD-040 ⑤HD-064

HD-7+

For **H3A**, Hood/Housing Please Refer Page No. 134-139

Identification

Type

Order No.

Drawing

Dimensions mm

Crimp connection

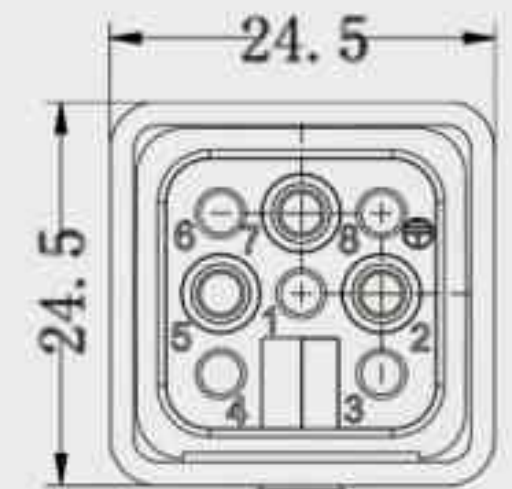
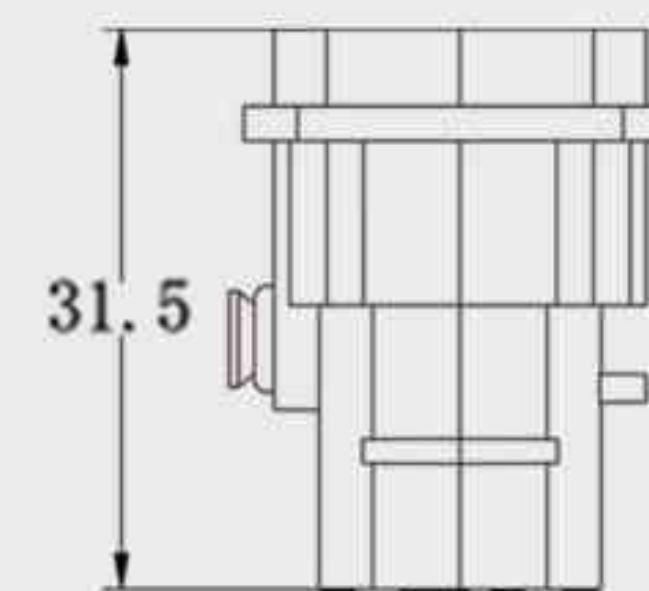


HD-007-M

3 007 040 20 101

Size

M



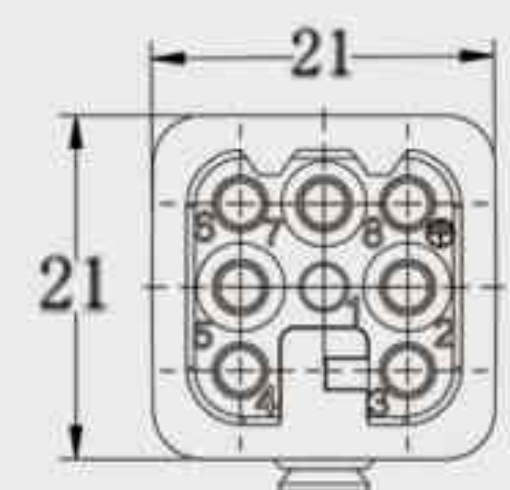
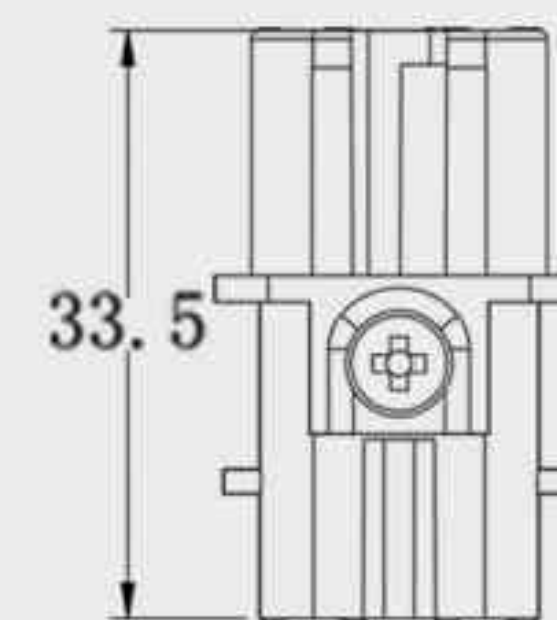
HD



HD-007-F

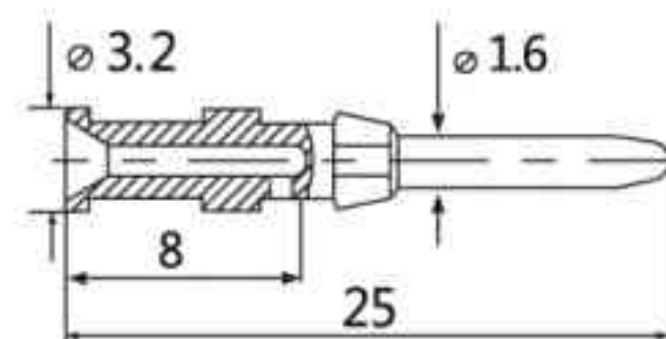
3 007 040 20 102

F



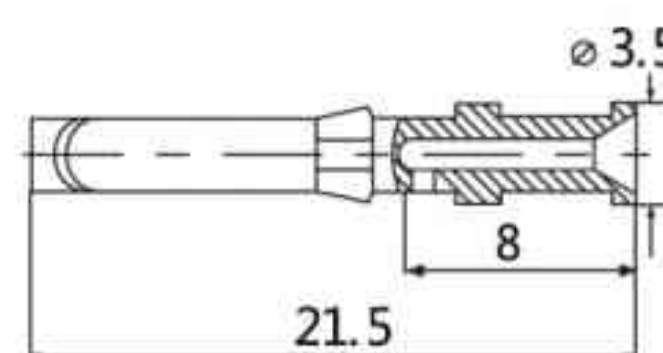
10A Crimp contacts

Male crimp contacts



Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250

Female crimp contacts



Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250

M

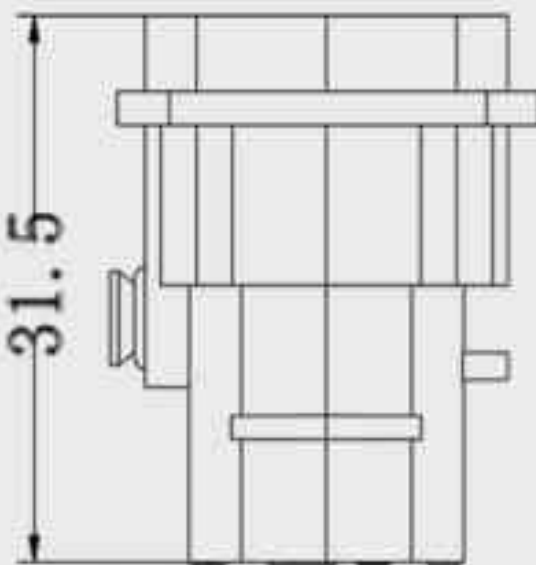
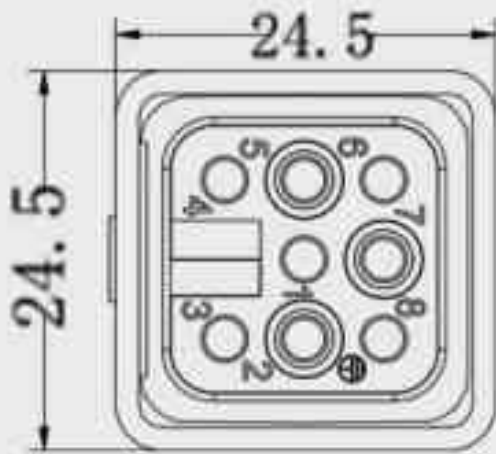


F

Contacts arrangement view
from termination side

HD-8+ $\oplus$

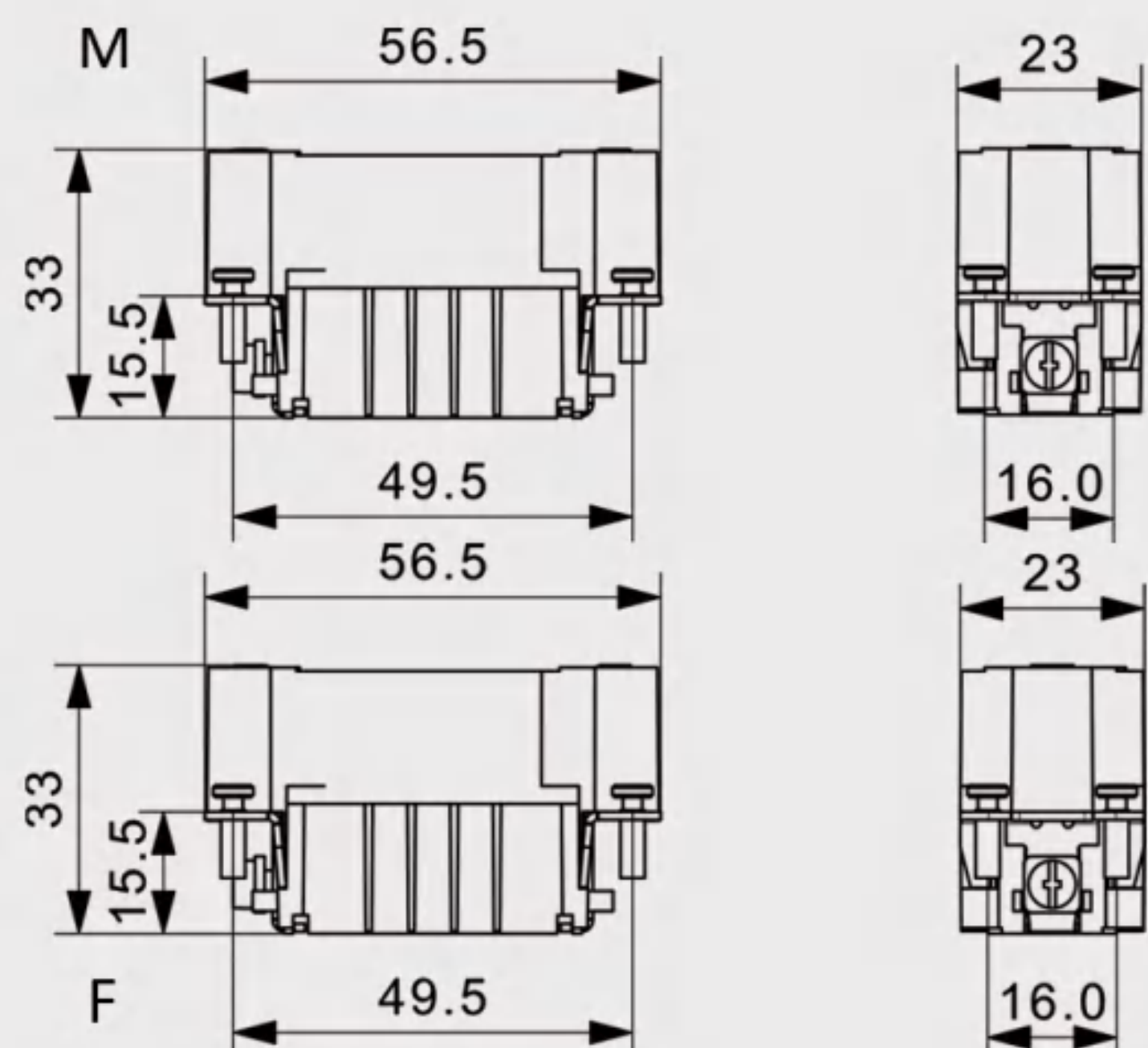
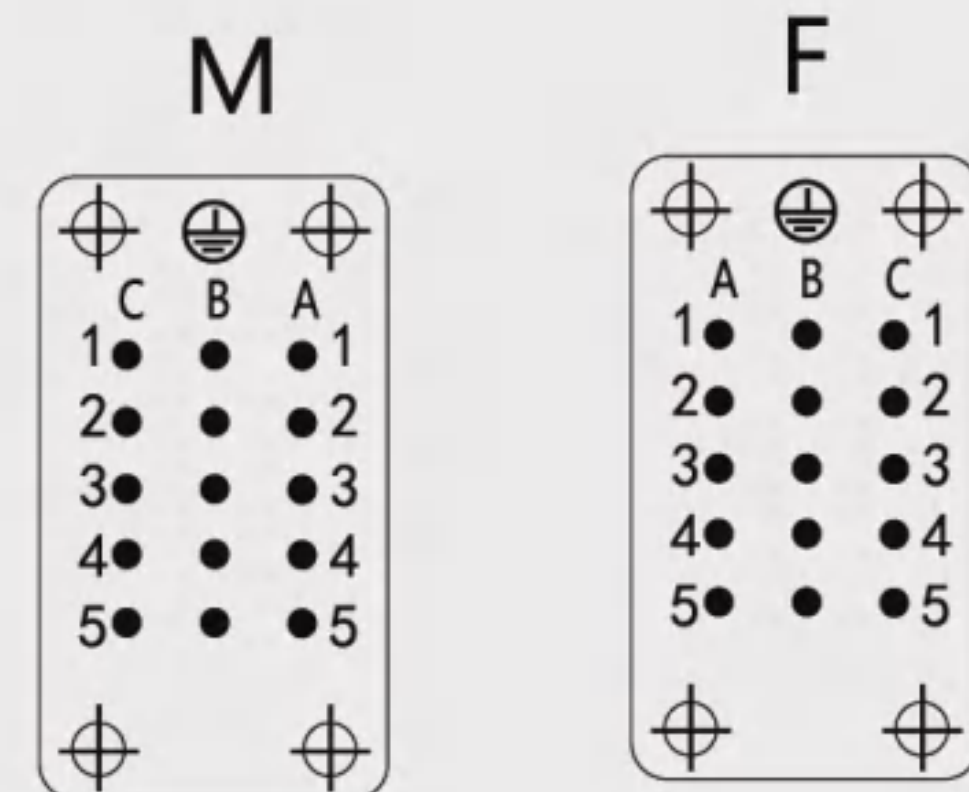
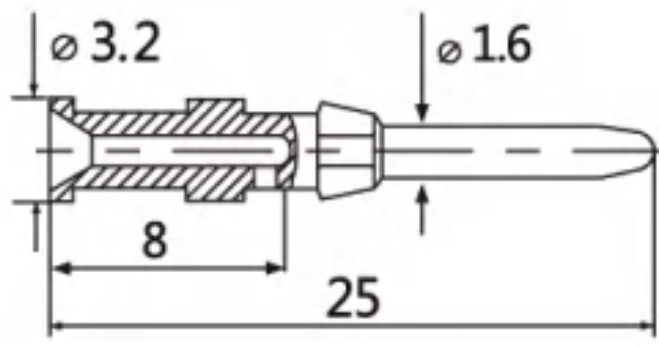
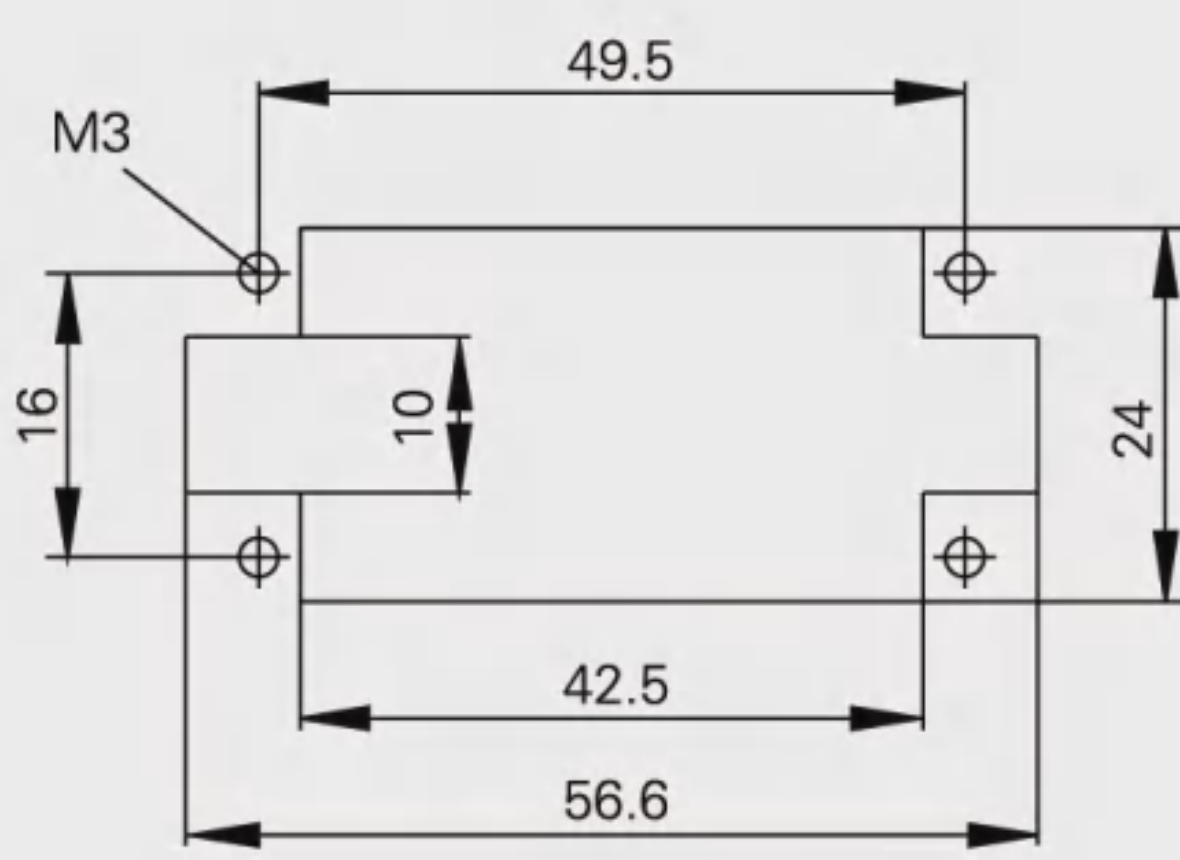
For H3A,Hood/Housing Please Refer Page No. 134-139

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection			Size	
			M	
	HD-008-M	3 008 040 20 101		
	HD-008-F	3 008 040 20 102	F	
			M	
			F	
10A Crimp contacts				
Male crimp contacts			M	
			F	
Contacts arrangement view from termination side				
Contacts, Silver-plated				
Contacts, Gold-plated				
Female crimp contacts				
Contacts, Silver-plated				
Contacts, Gold-plated				

HD

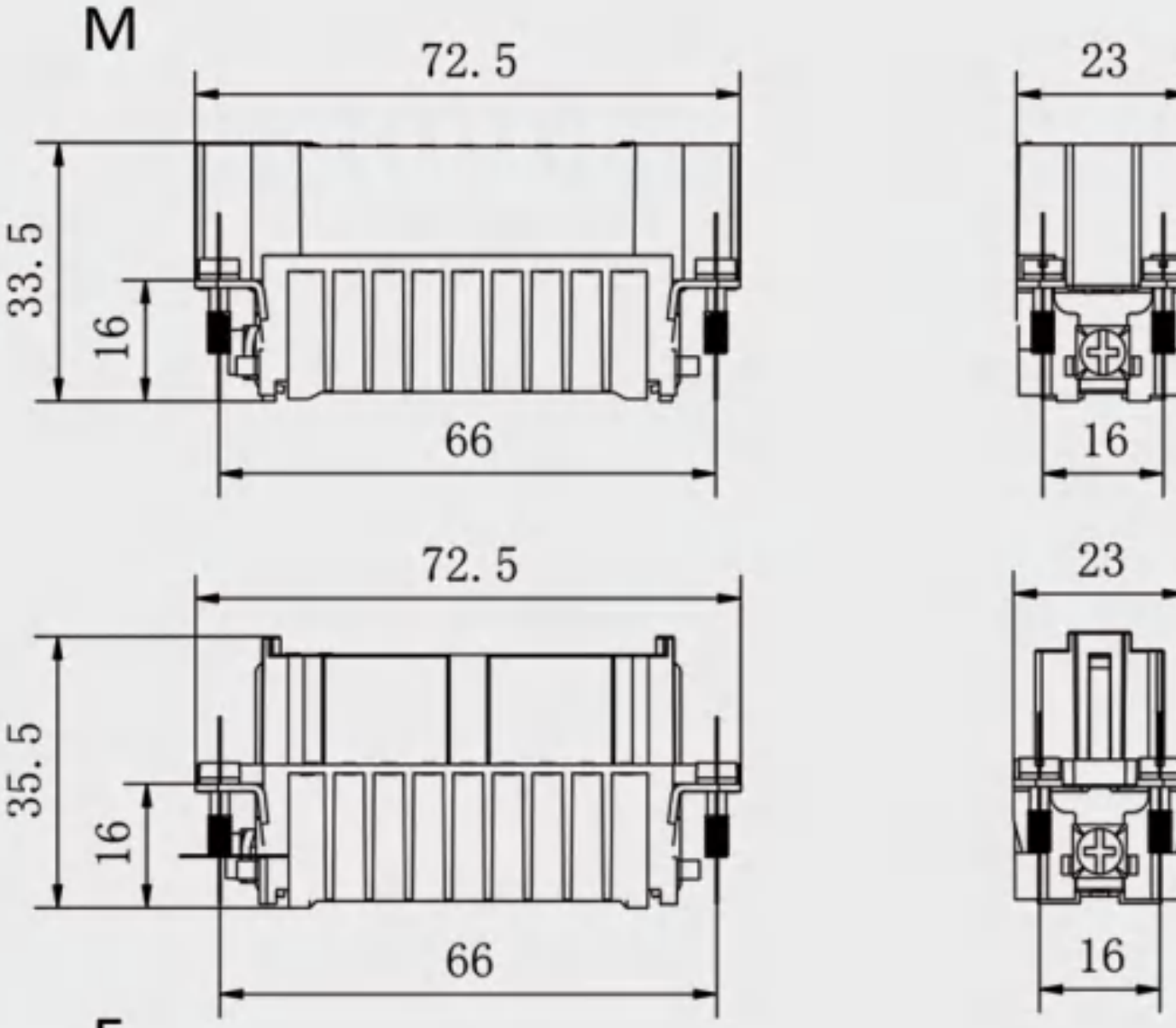
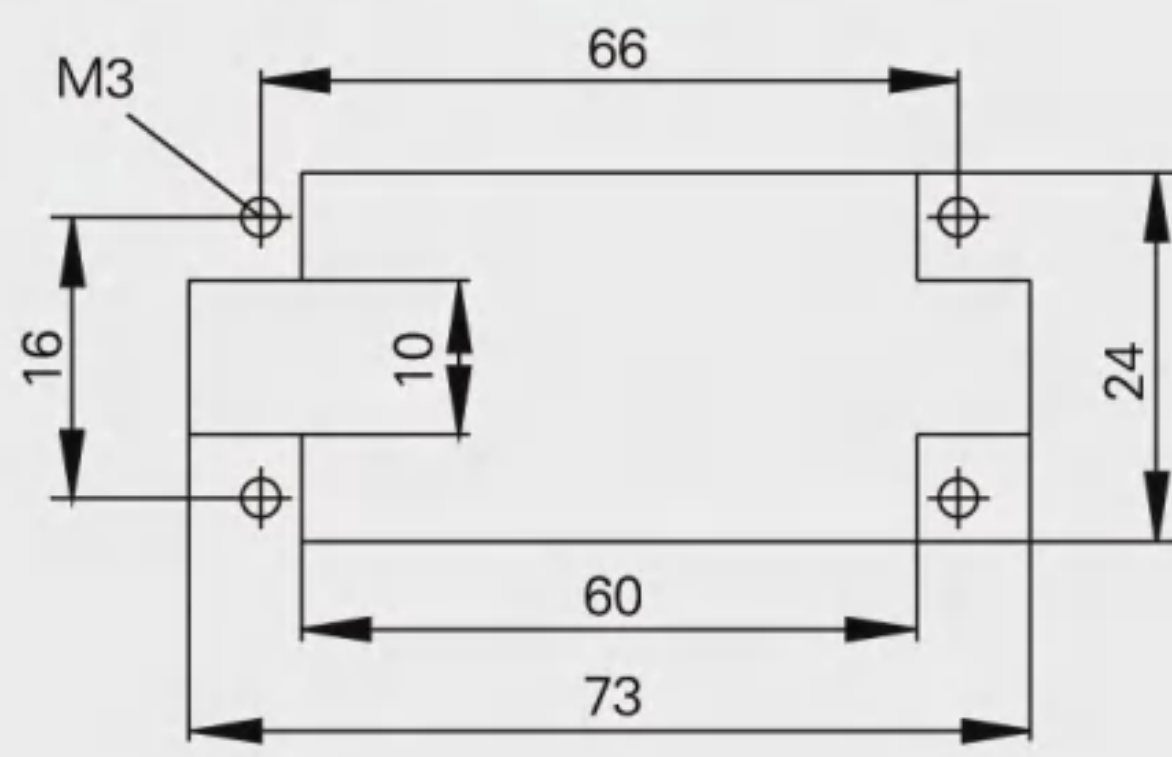
HD-15+

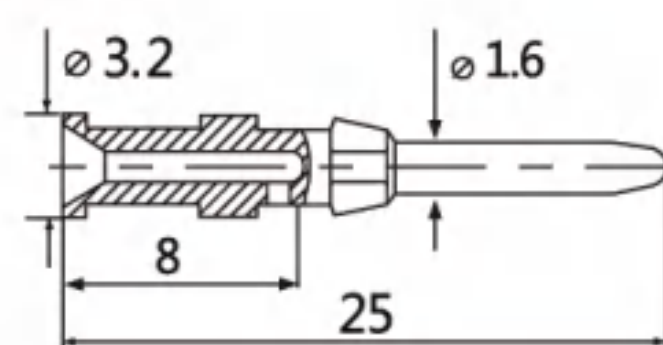
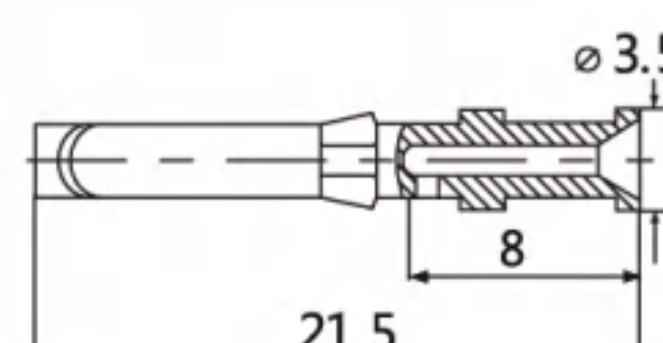
For **H10A**, Hood/Housing Please Refer Page No. 140-141

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection			Size	
	HD-015-M	3 015 040 20 101		
	HD-015-F	3 015 040 20 102		
			Maximum distance between inserts 24mm	
10A Crimp contacts				
Male crimp contacts				
			Contacts arrangement view from termination side	
				
			Panel cutout drawing	

HD-25+

For **H16A**,Hood/Housing Please Refer Page No. 142-143

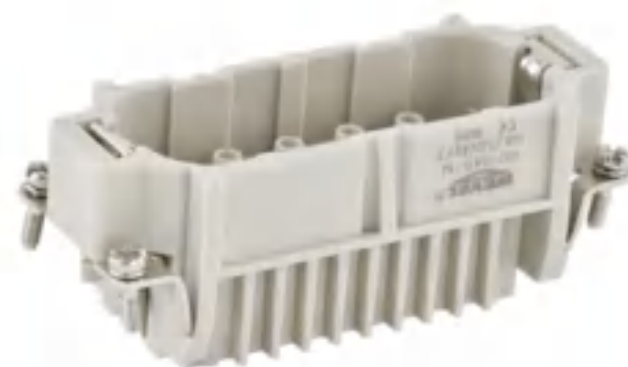
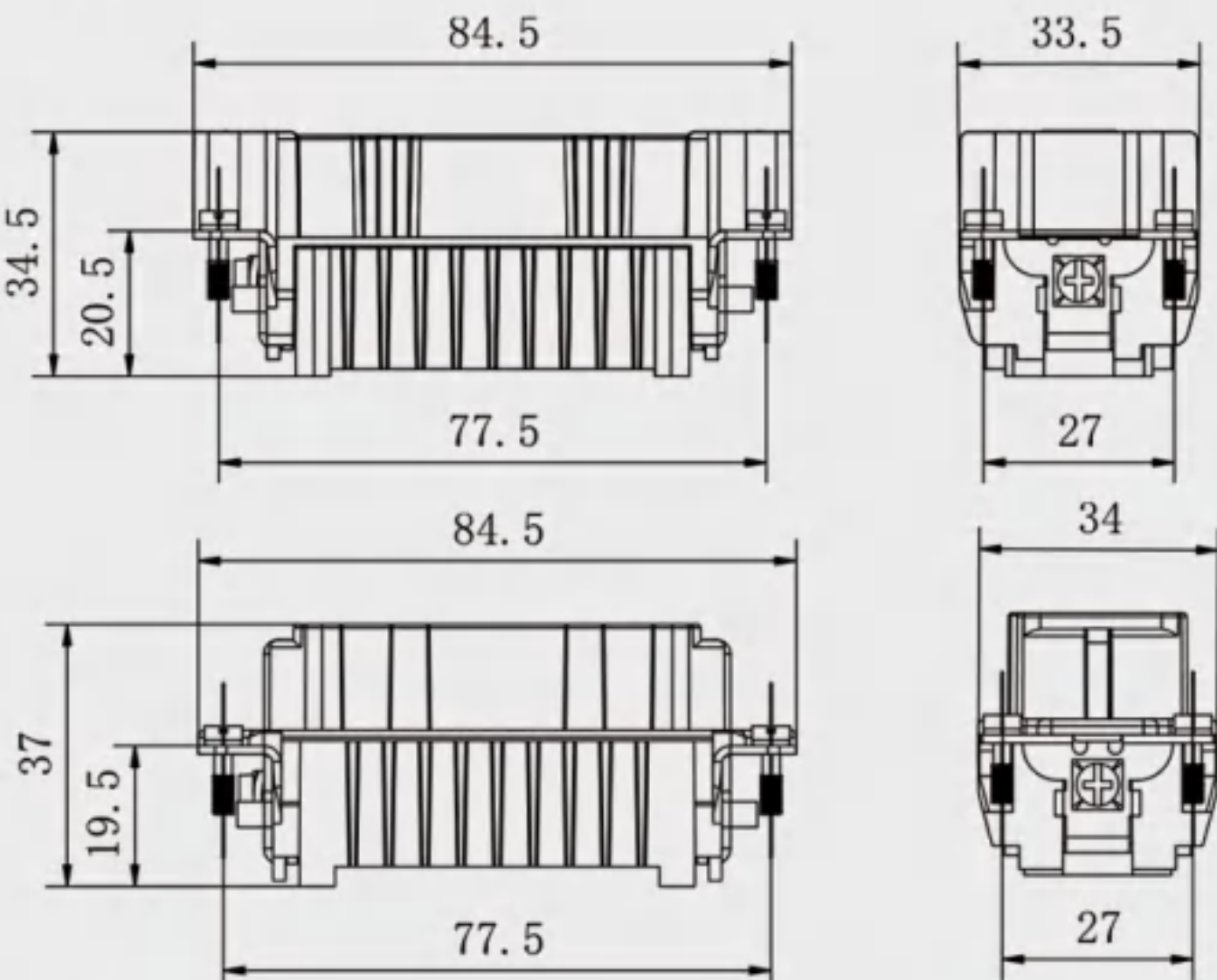
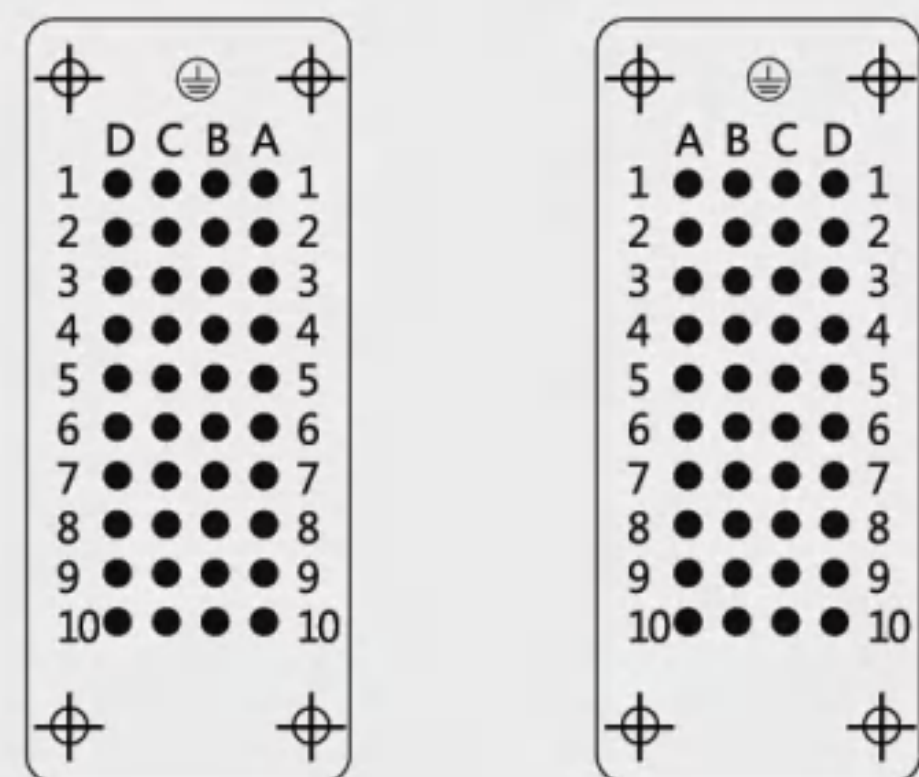
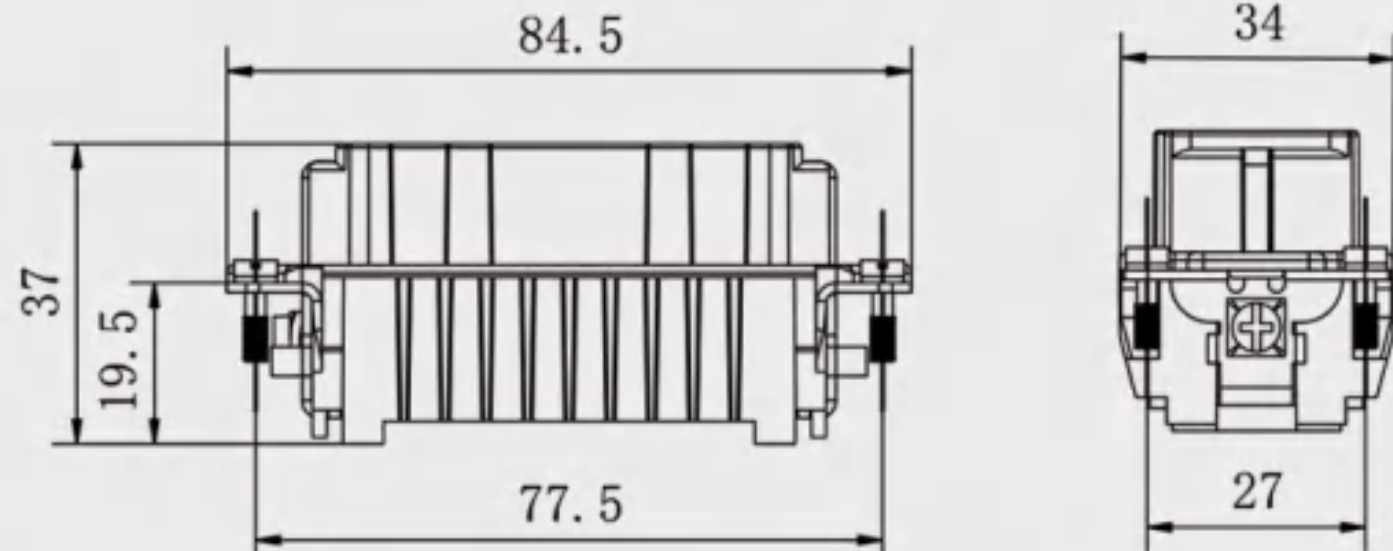
Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection				
	HD-025-M	3 025 040 20 101		
	HD-025-F	3 025 040 20 102		
Maximum distance between inserts 24mm				
Size				
				
F M 1 2 3 4 5 6 7 8 9 ABC 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 CBA 1 2 3 4 5 6 7 8 9				
Contacts arrangement view from termination side				
				
Panel cutout drawing				

10A Crimp contacts			
Male crimp contacts			
			
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250
Female crimp contacts			
			
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250

HD

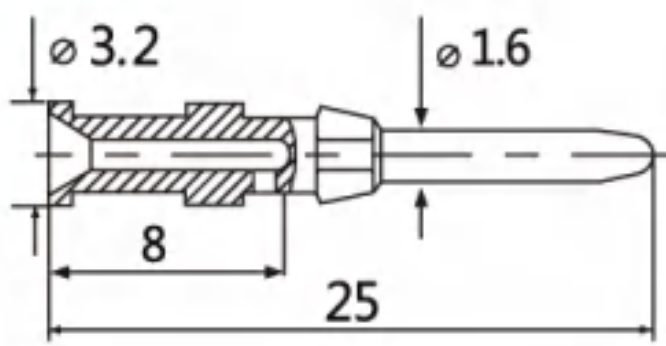
HD-40+

For H16B,Hood/Housing Please Refer Page No. 171-185

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection 	HD-040-M	3 040 040 20 101	Size M  F Maximum distance between inserts 24mm 	
	HD-040-F	3 040 040 20 102		

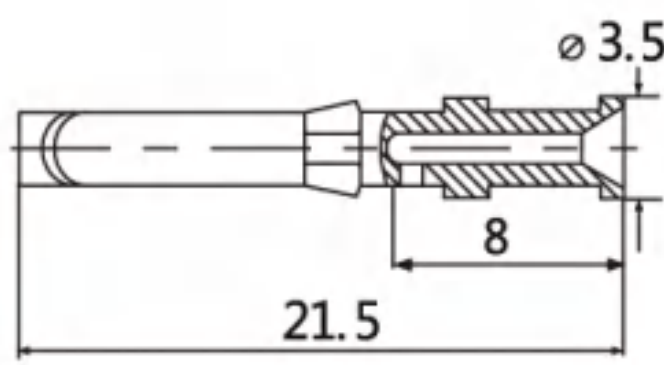
10A Crimp contacts

Male crimp contacts



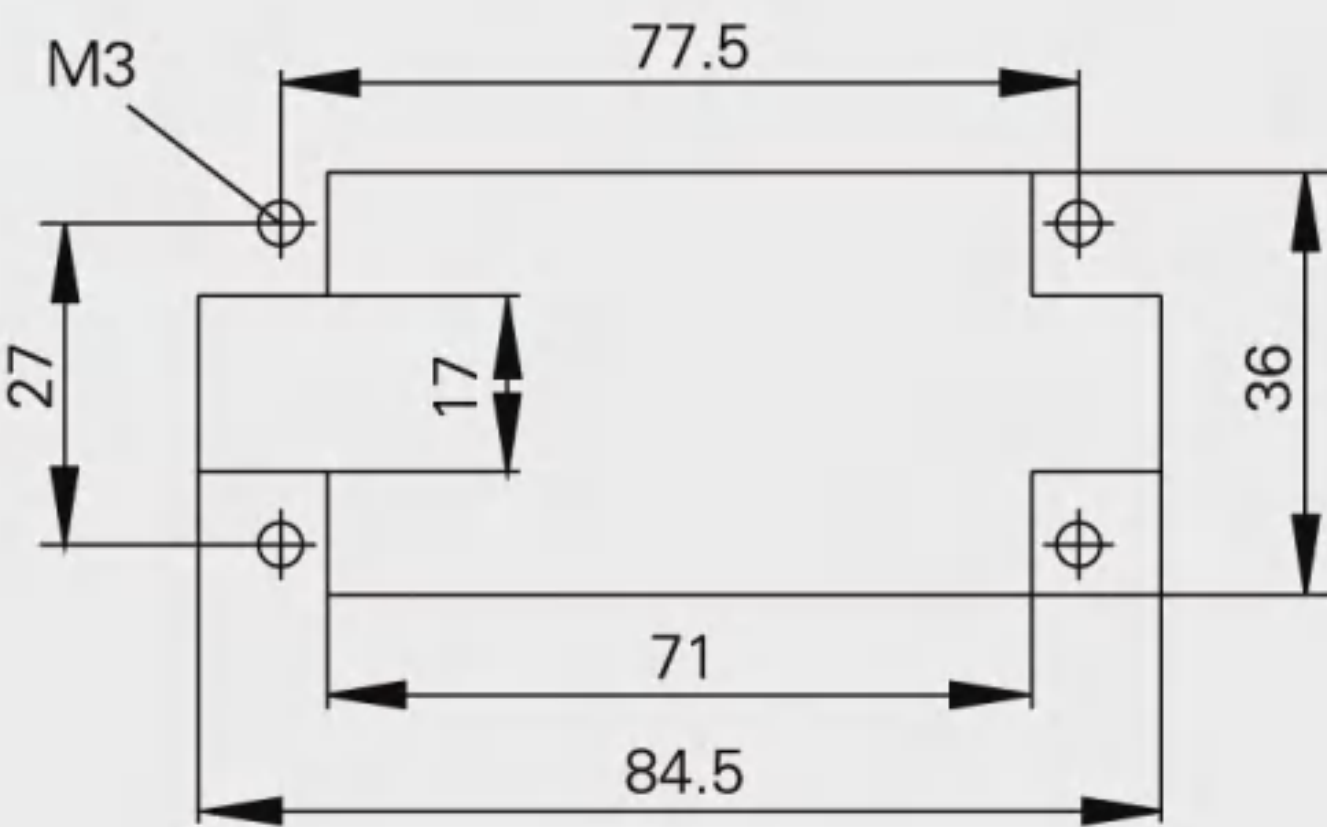
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250

Female crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250

Panel cutout drawing

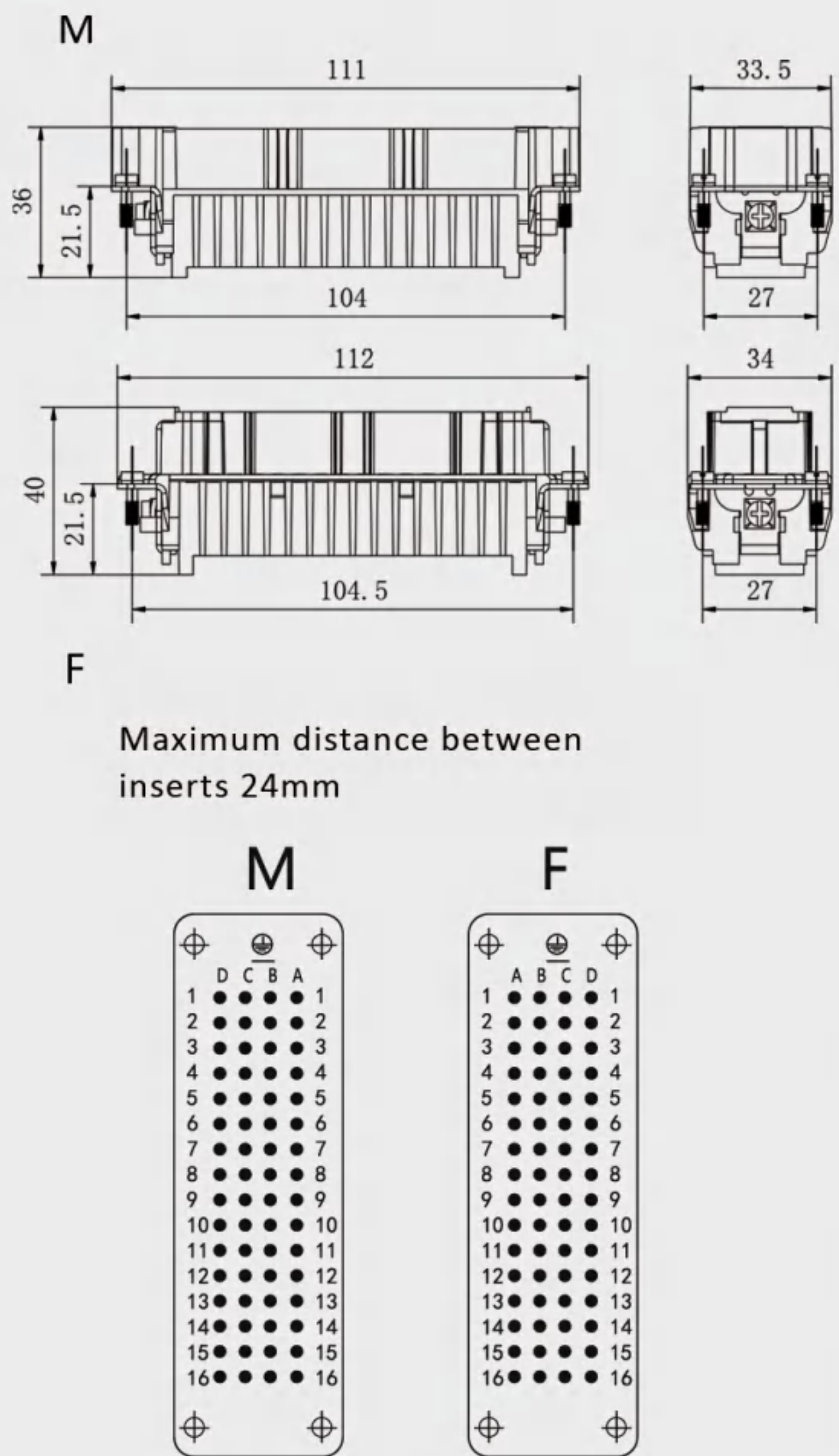
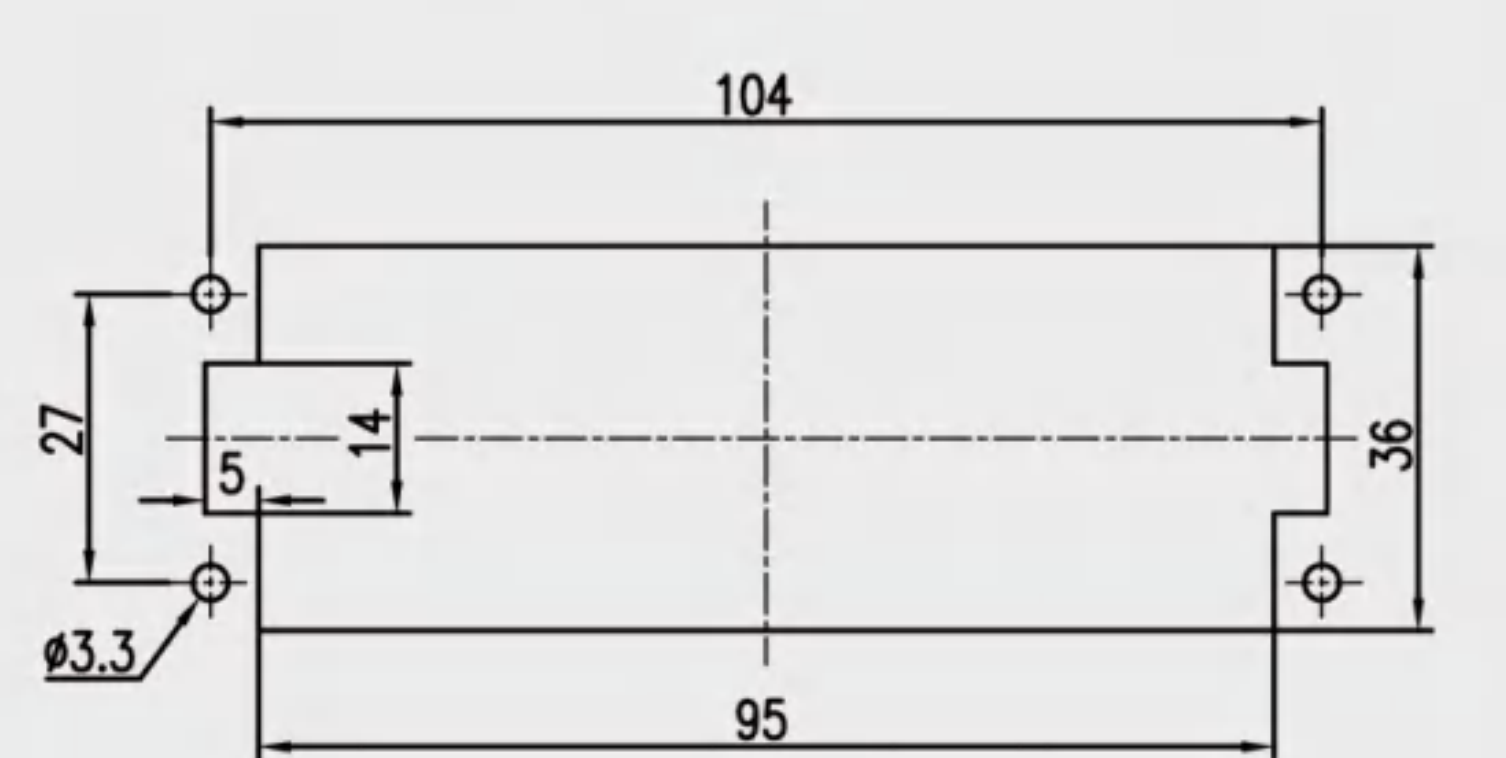


For H32A, Hood/Housing Please Refer Page No. 144-145

HD

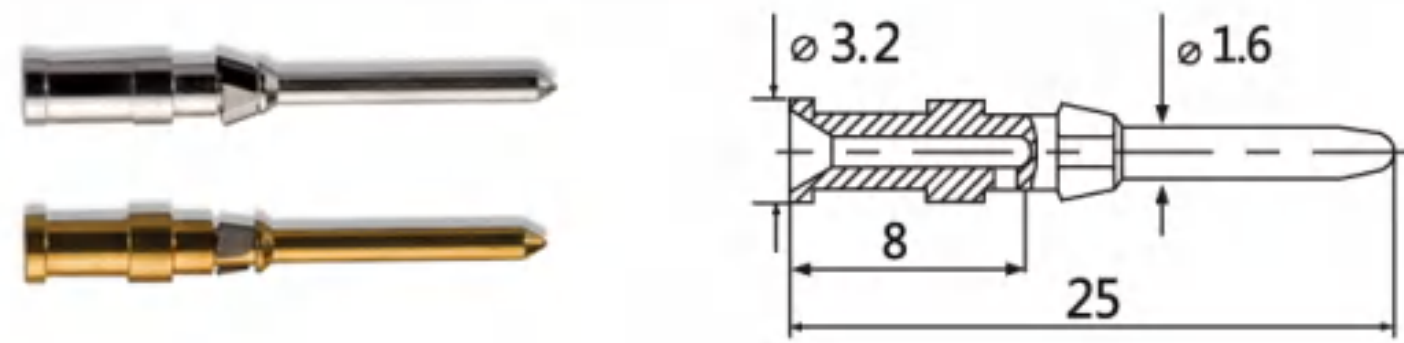
HD-64+

For **H24B**,Hood/Housing Please Refer Page No. 186-201

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection 	HD-064-M HD-064-F	3 064 040 20 101 3 064 040 20 102	Size 	Dimensions mm 

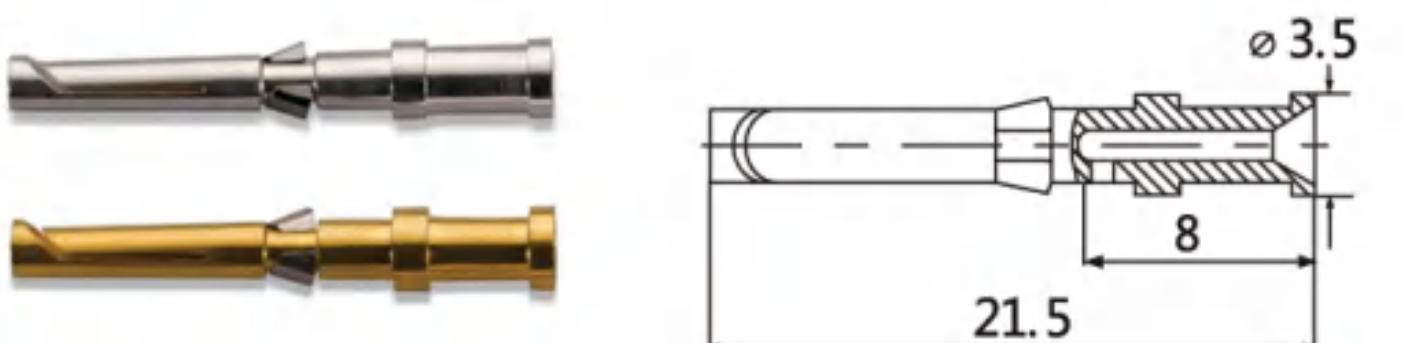
10A Crimp contacts

Male crimp contacts



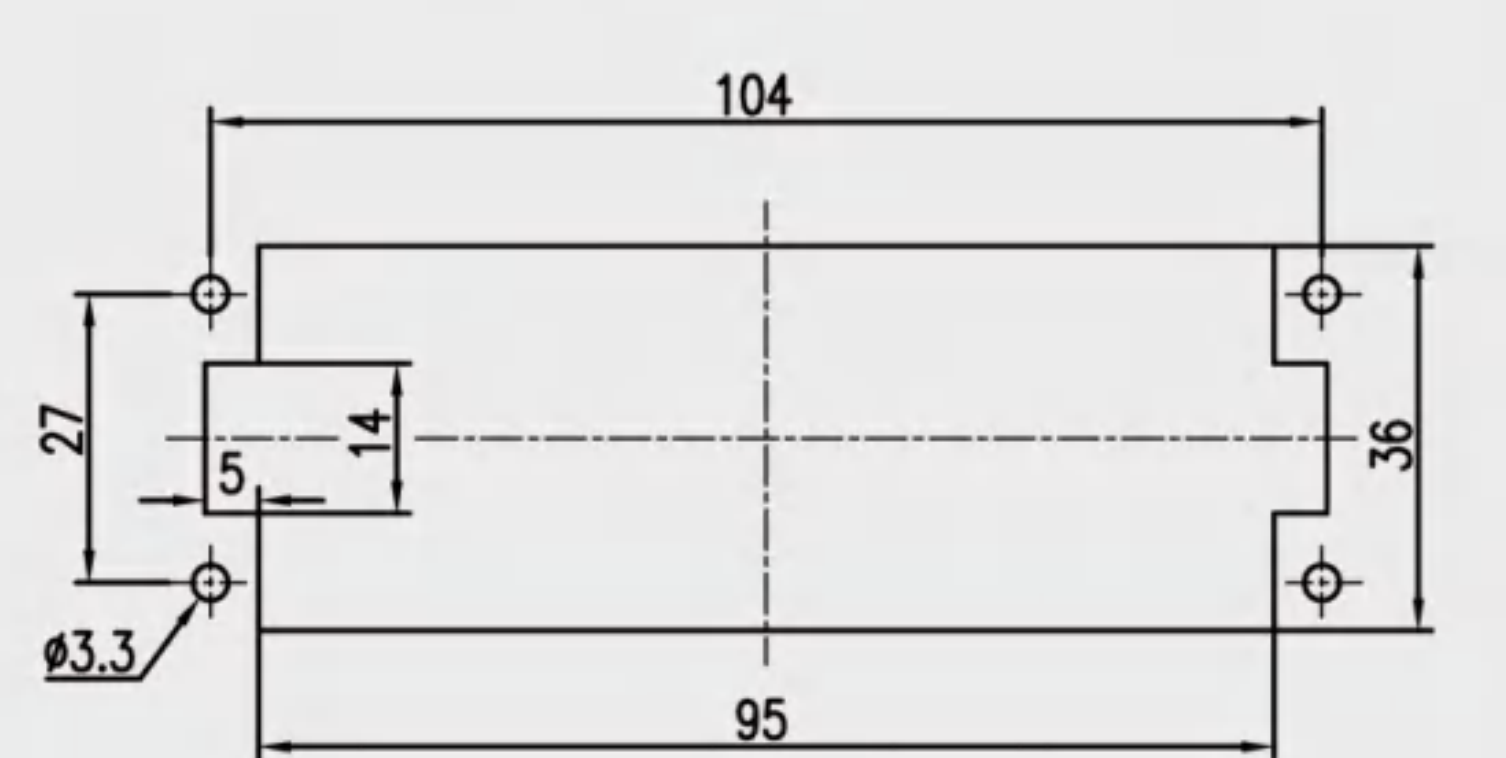
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250

Female crimp contacts

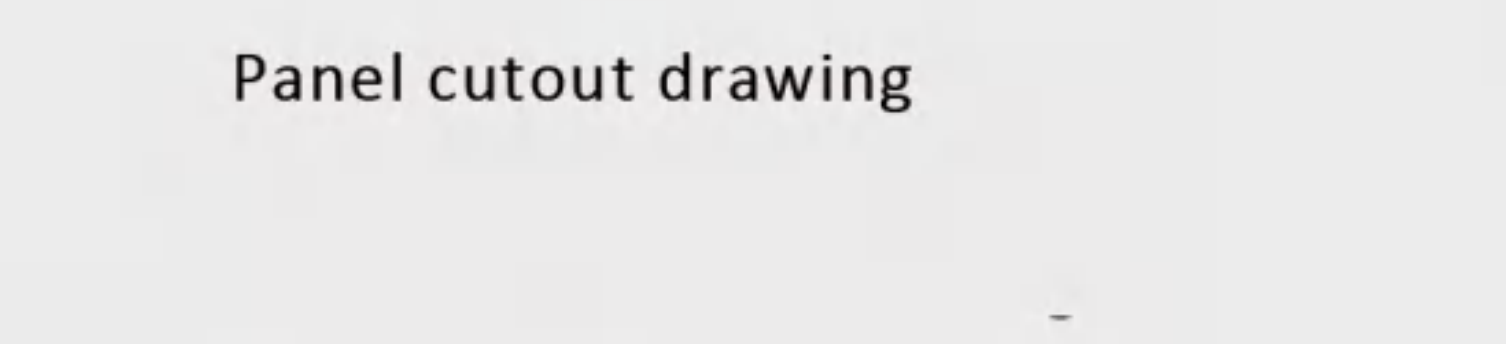


Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250

Contacts arrangement view from termination side

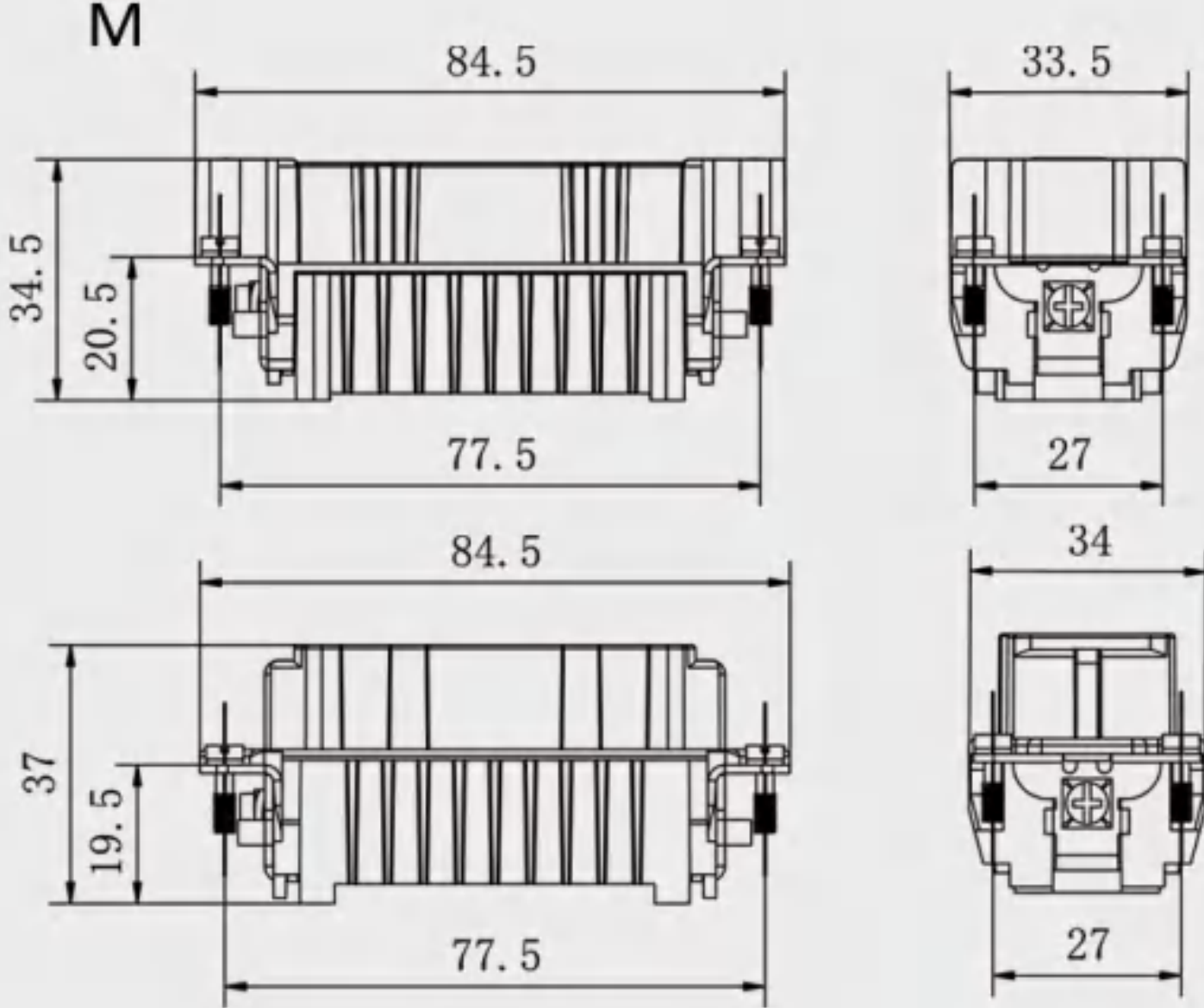
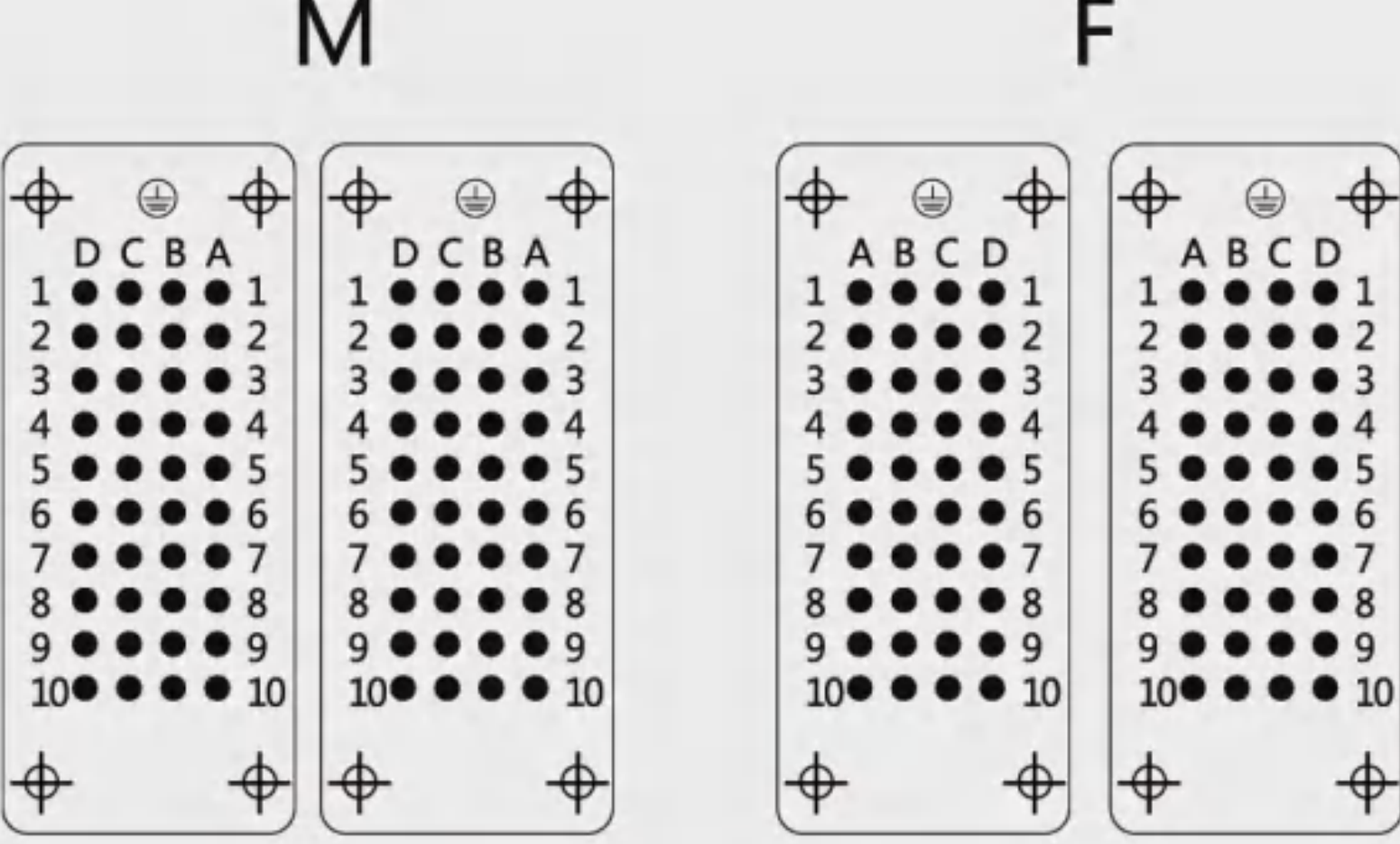
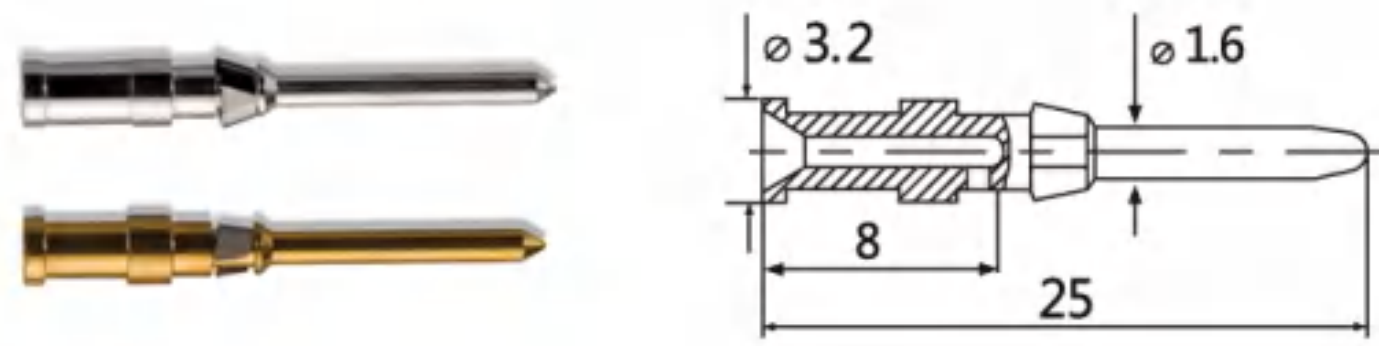
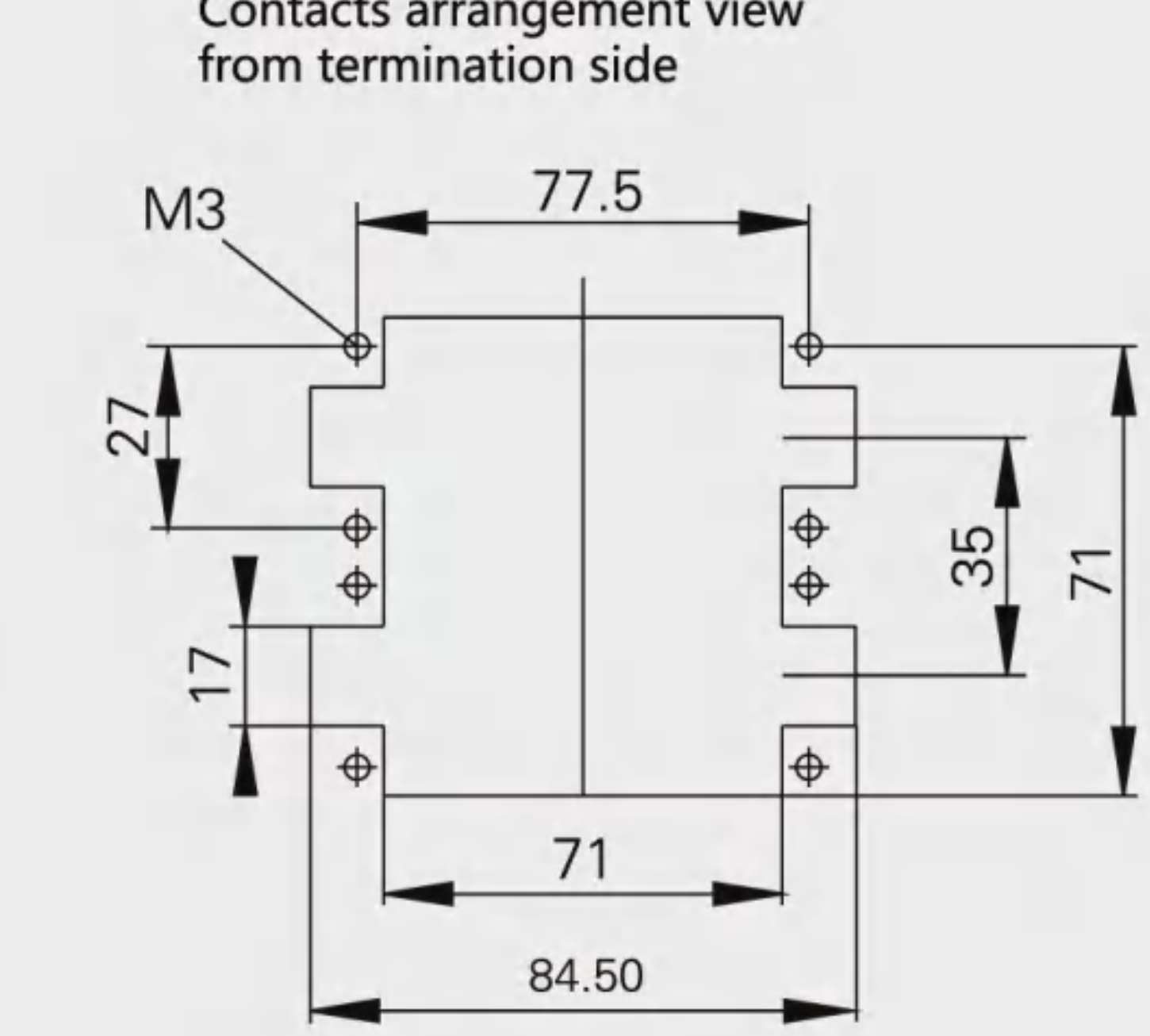
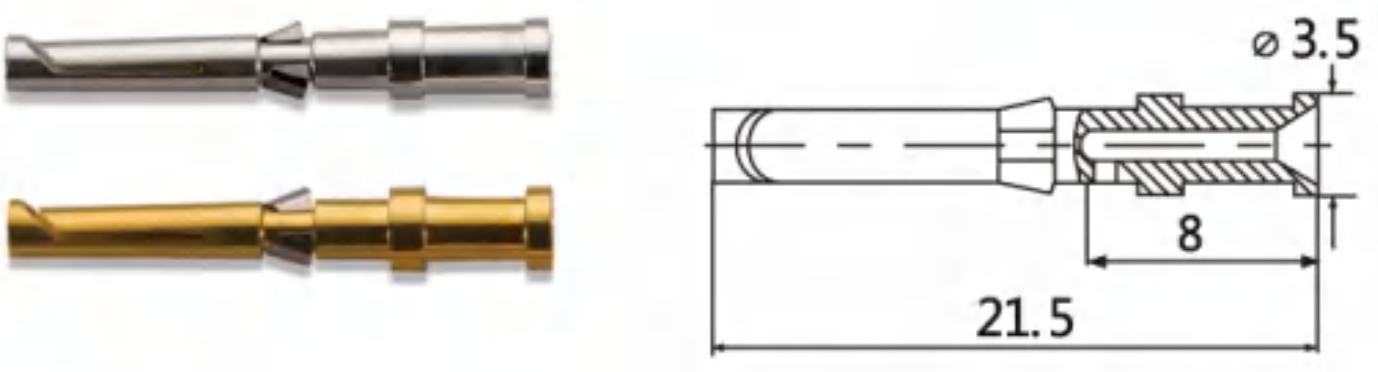
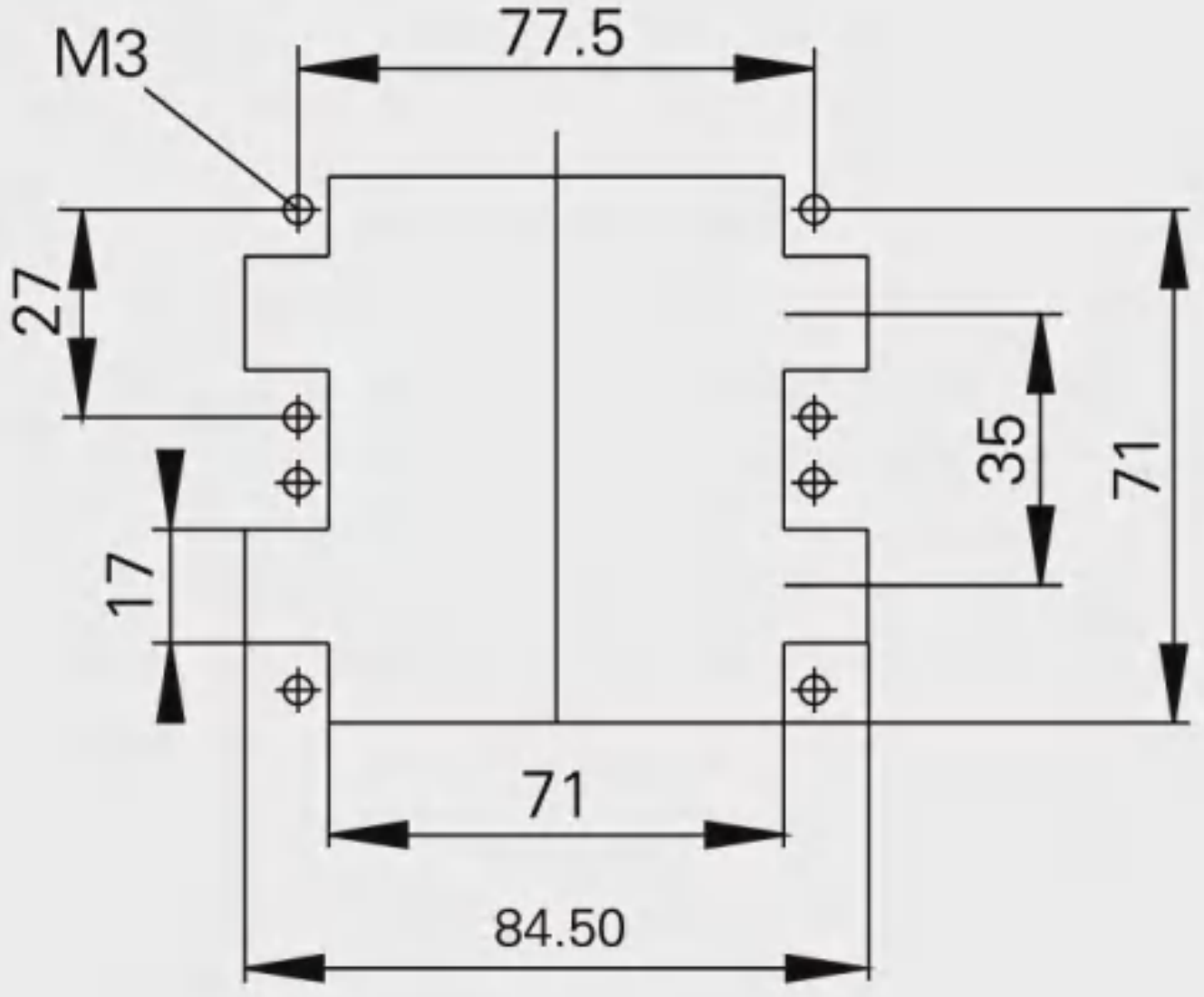


Panel cutout drawing



HD-80+

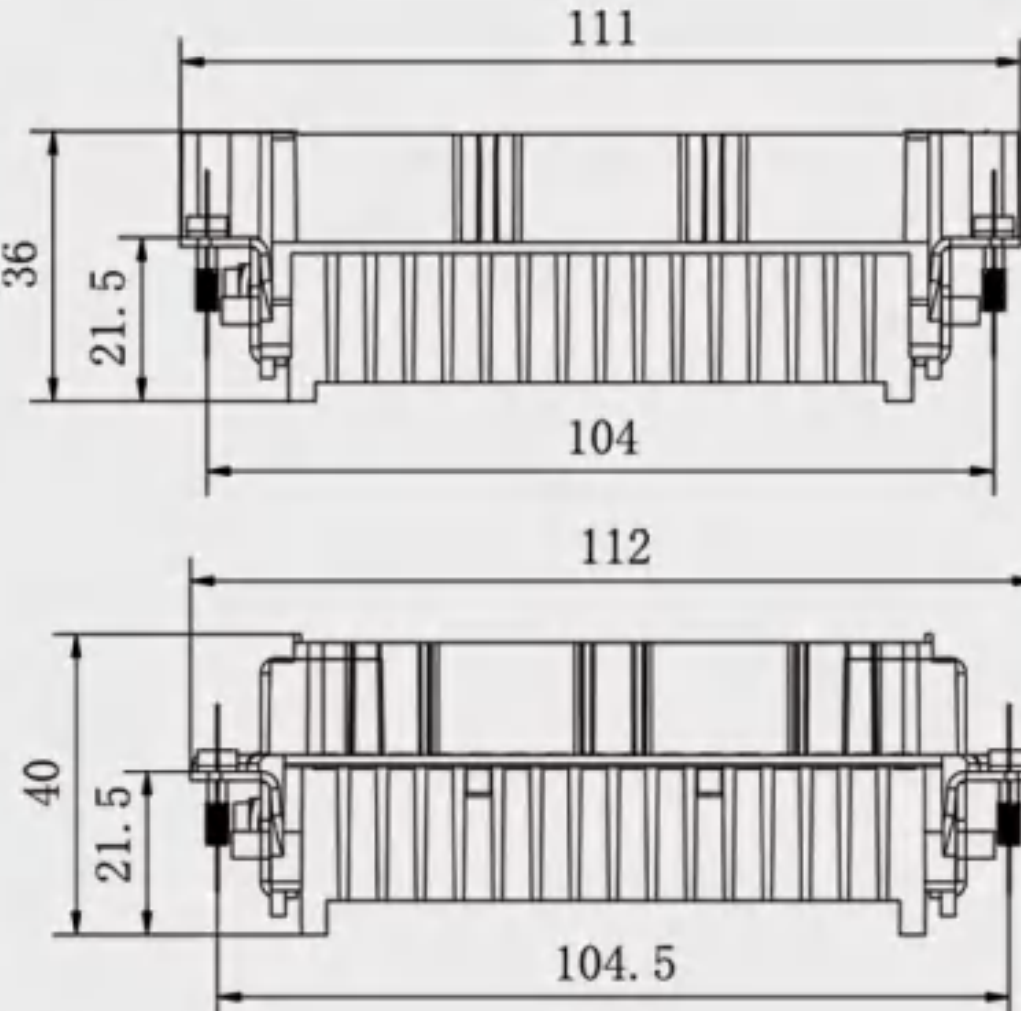
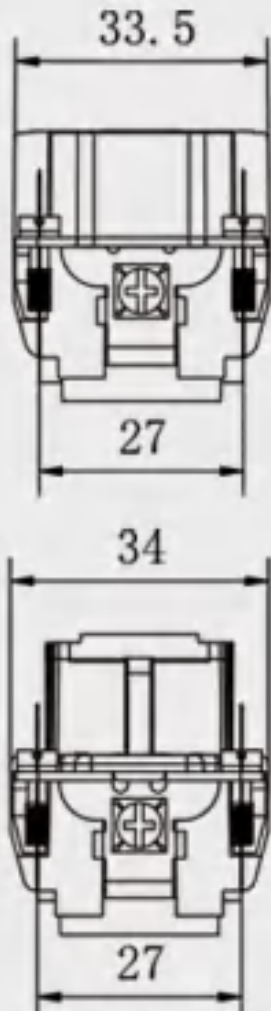
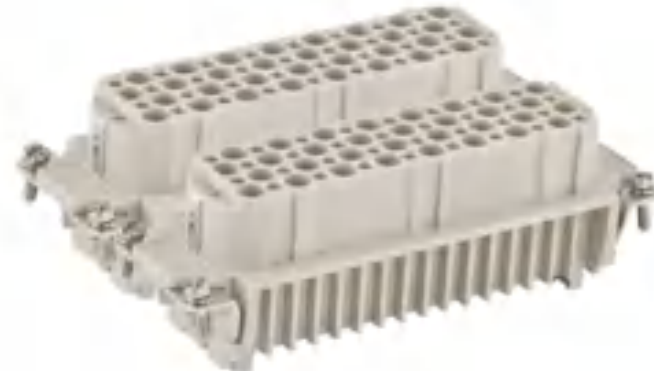
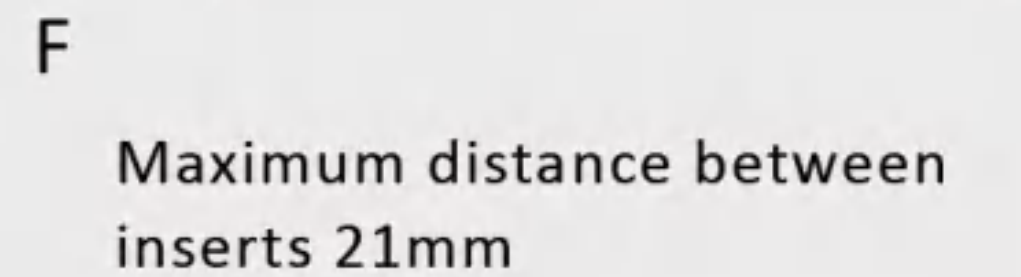
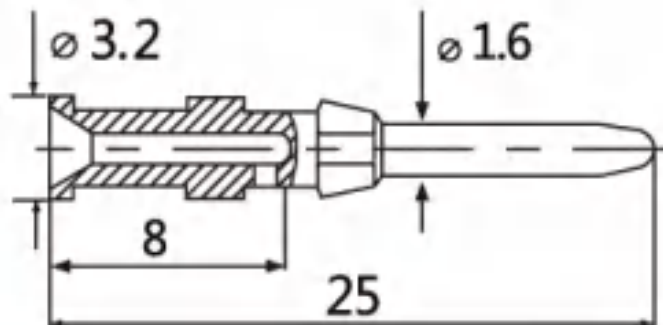
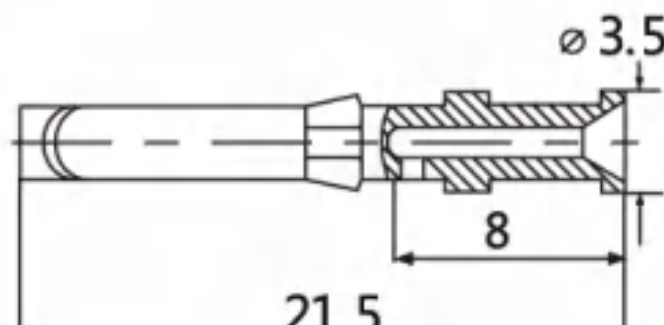
For **H32B**,Hood/Housing Please Refer Page No. 202-207

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection 	HD-040-M HD-080-M(41-80)	3 040 040 20 101 3 080 040 20 101	Size 	
	HD-040-F HD-080-F(41-80)	3 040 040 20 102 3 080 040 20 102	F Maximum distance between inserts 24mm 	
10A Crimp contacts Male crimp contacts 				
Female crimp contacts 			Panel cutout drawing 	

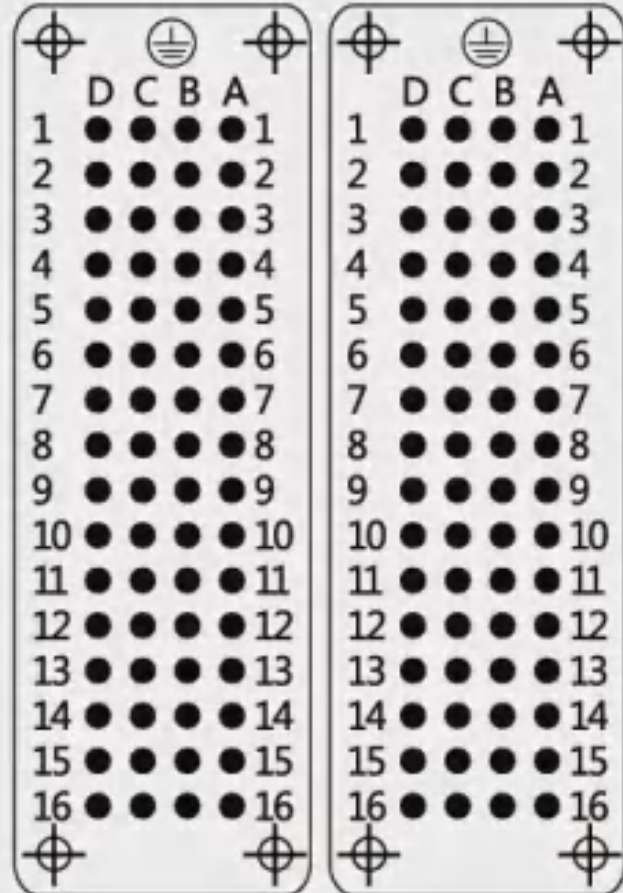
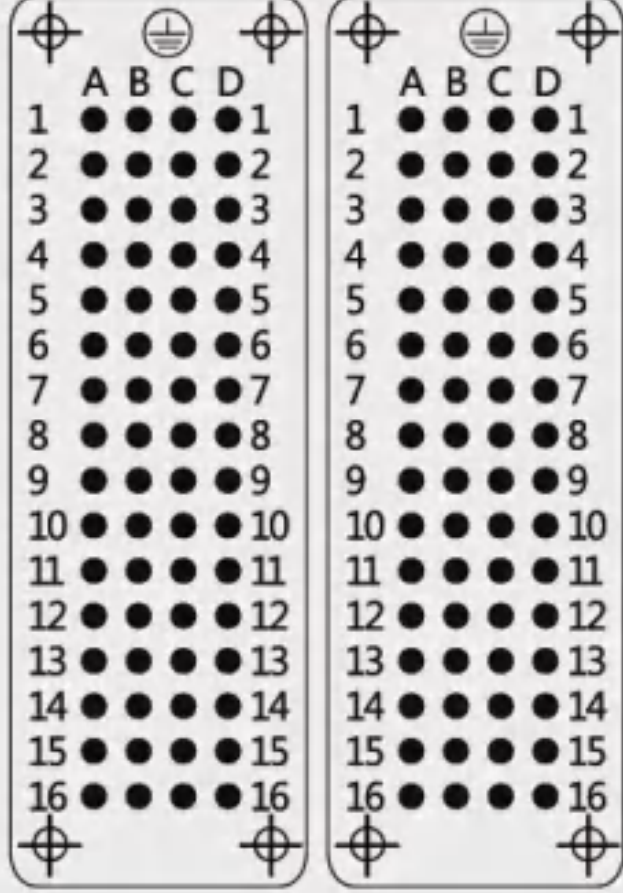
HD

HD-128+

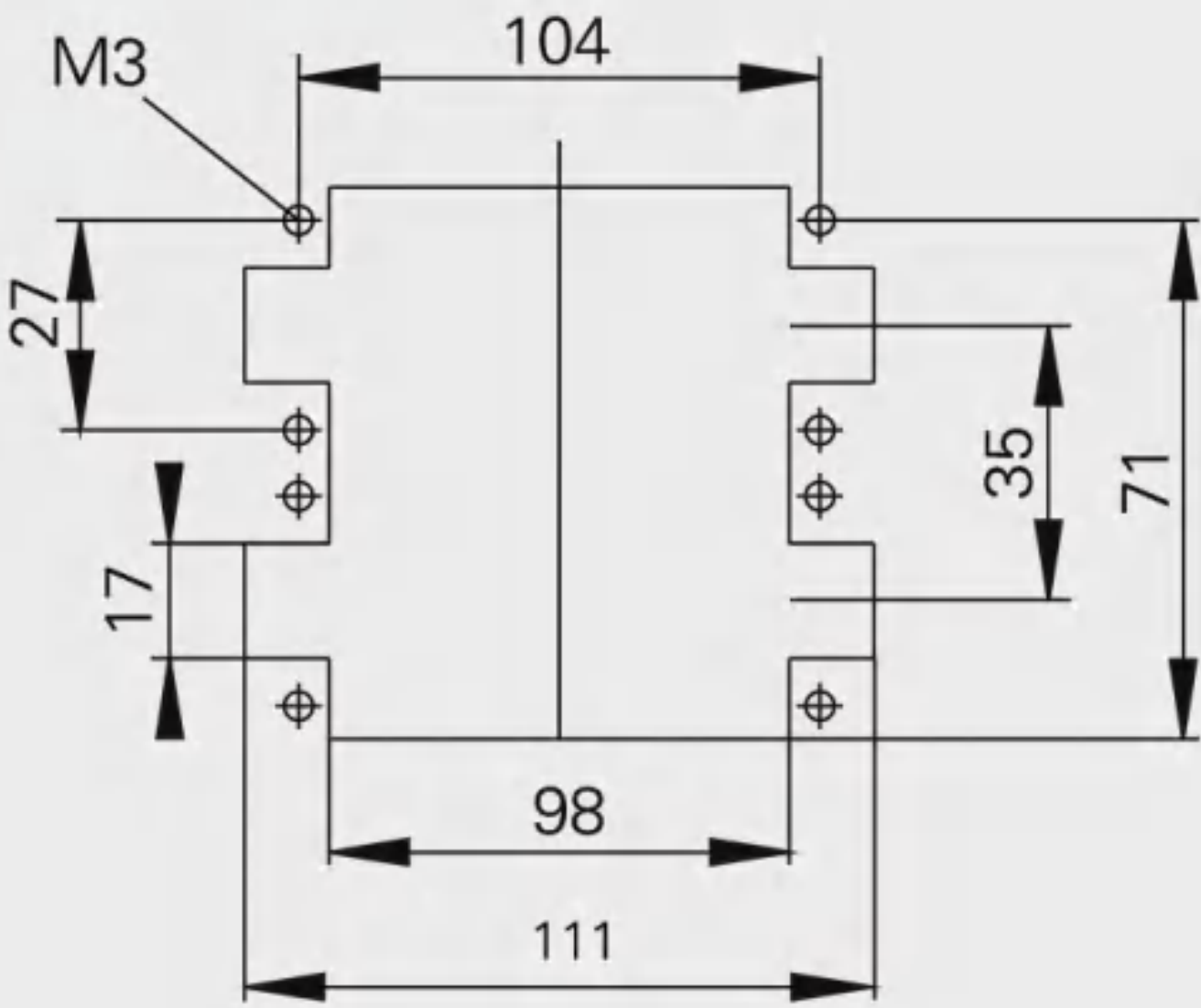
For **H48B**,Hood/Housing Please Refer Page No. 208-209

Identification	Type	Order No.	Drawing	Dimensions mm																												
Crimp connection			Size																													
	HD-064-M HD-128-M(65-128)	3 064 040 20 101 3 128 040 20 101																														
	HD-064-F HD-128-F(65-128)	3 064 040 20 102 3 128 040 20 102																														
10A Crimp contacts																																
Male crimp contacts																																
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DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150																													
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250																													

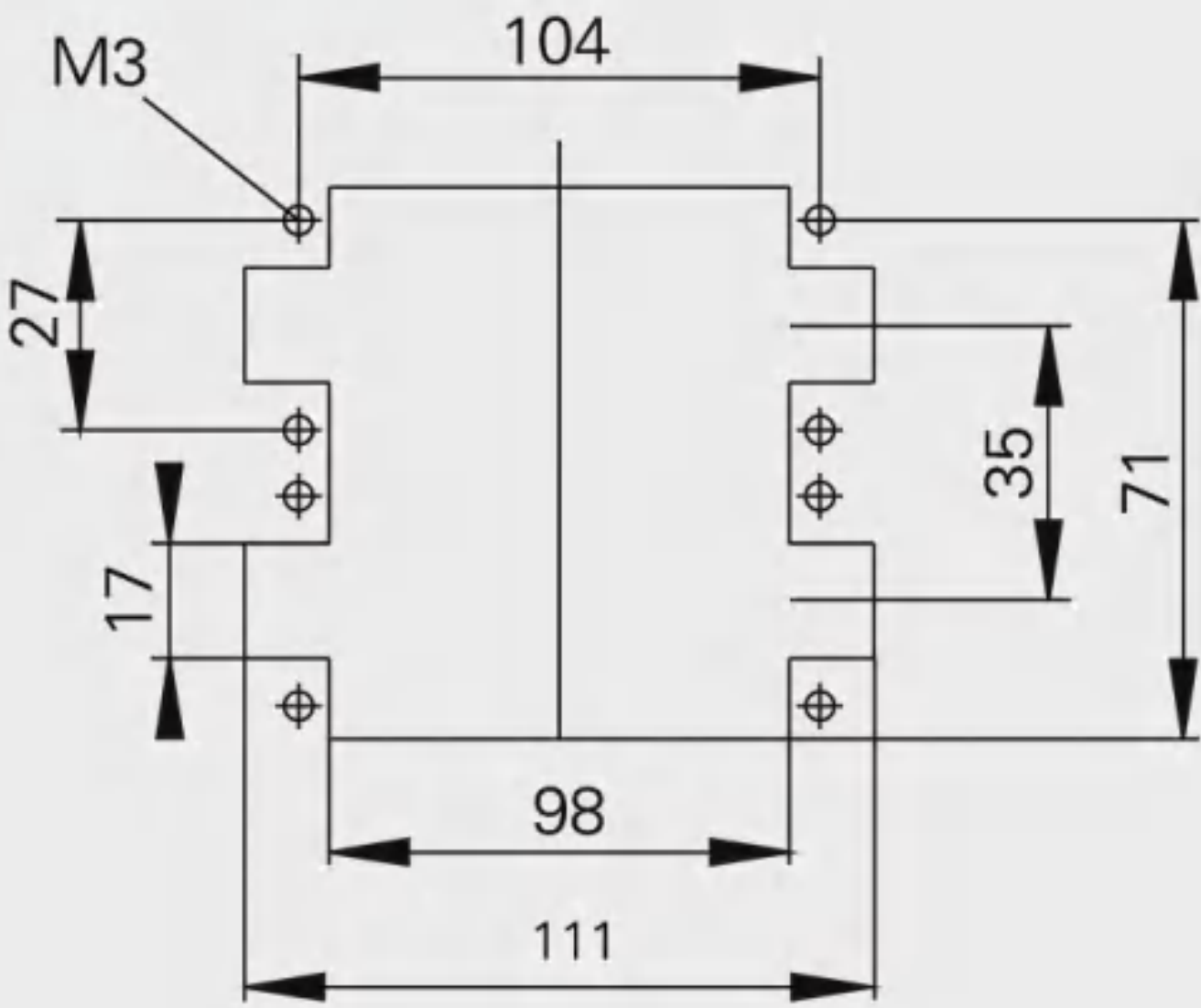
Maximum distance between inserts 21mm

M  **F** 

Contacts arrangement view from termination side



Panel cutout drawing



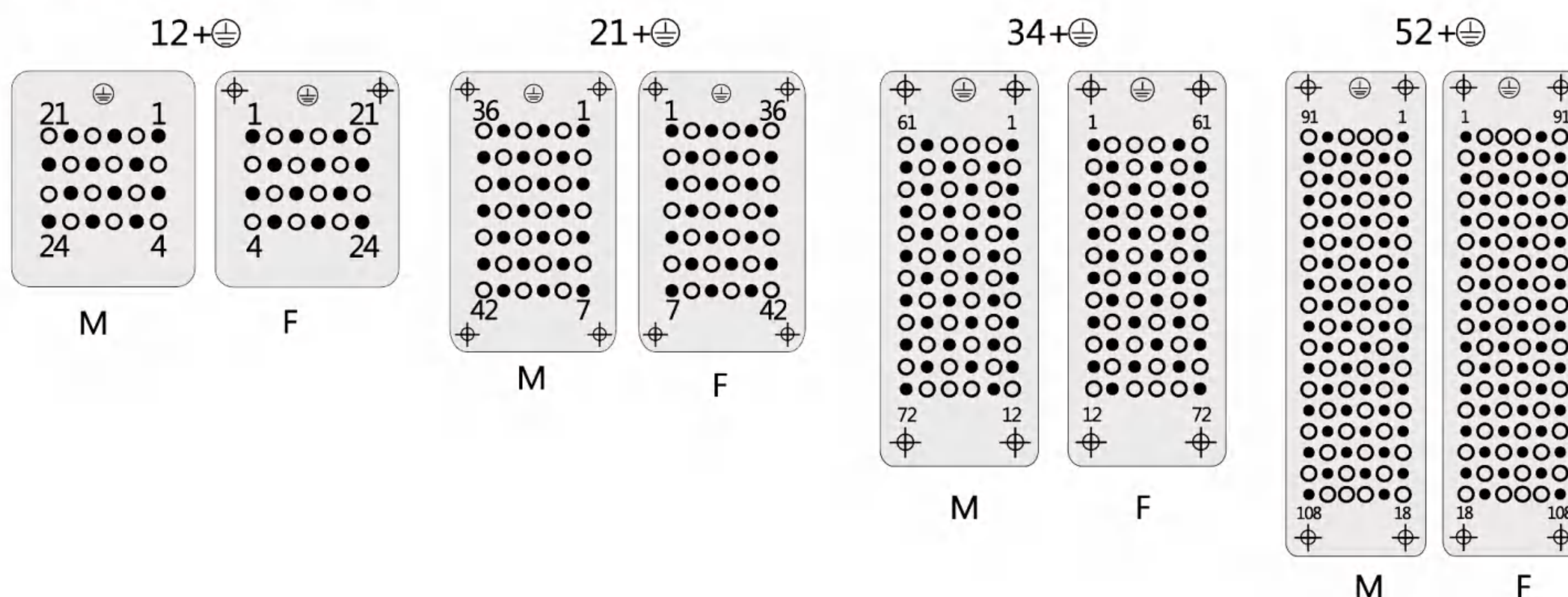
HDD Series

By optimizing the HD pin layout, the operating voltage can be raised to 500V.

When the HD connector assembly is fully populated with pins, its operating voltage can reach 250 V at insulation class 3(C). However, with pin arrangement optimization, the permissible operating voltage can be increased to 500 V under the same insulation class.

Contact arrangement view from termination side.

10A 400V 6KV 3



HDD

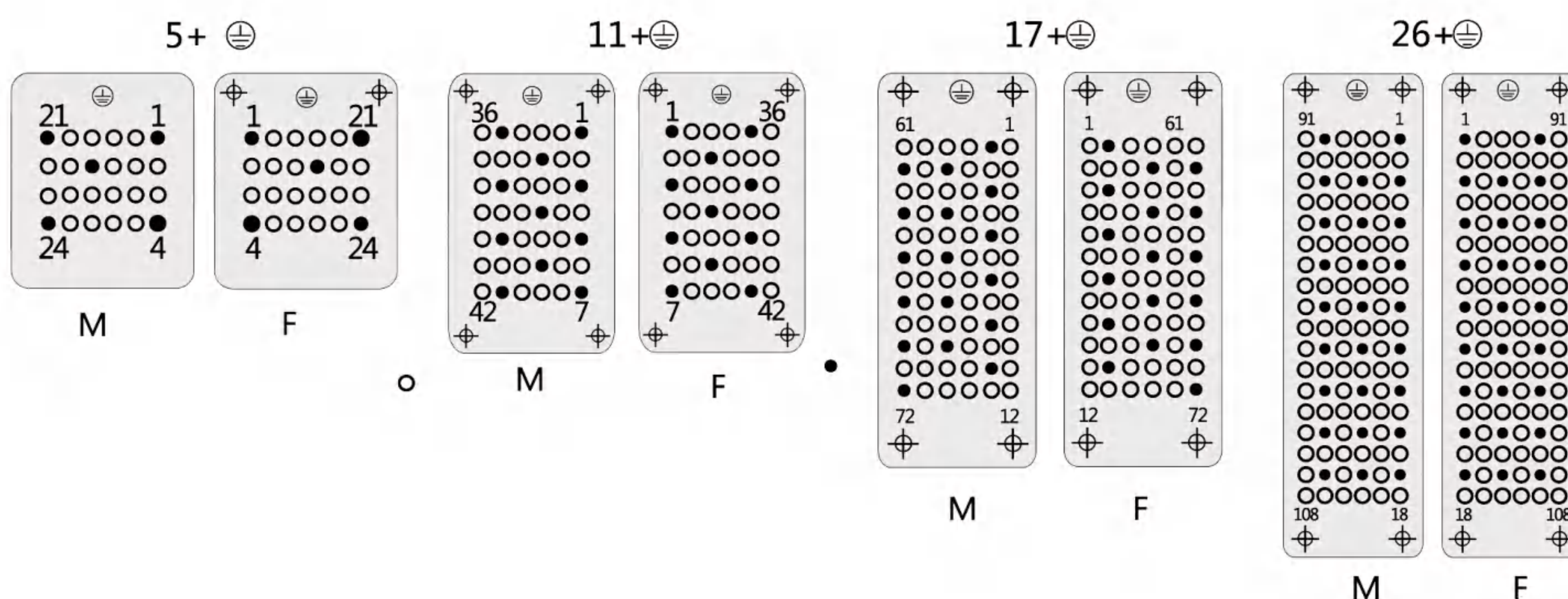
● Working contact

○ Without contact

M-Male insert

F-Female insert

10A 500V 6KV 3



● Working contact

○ Without contact

M-Male insert

F-Female insert

HDD technical characteristics

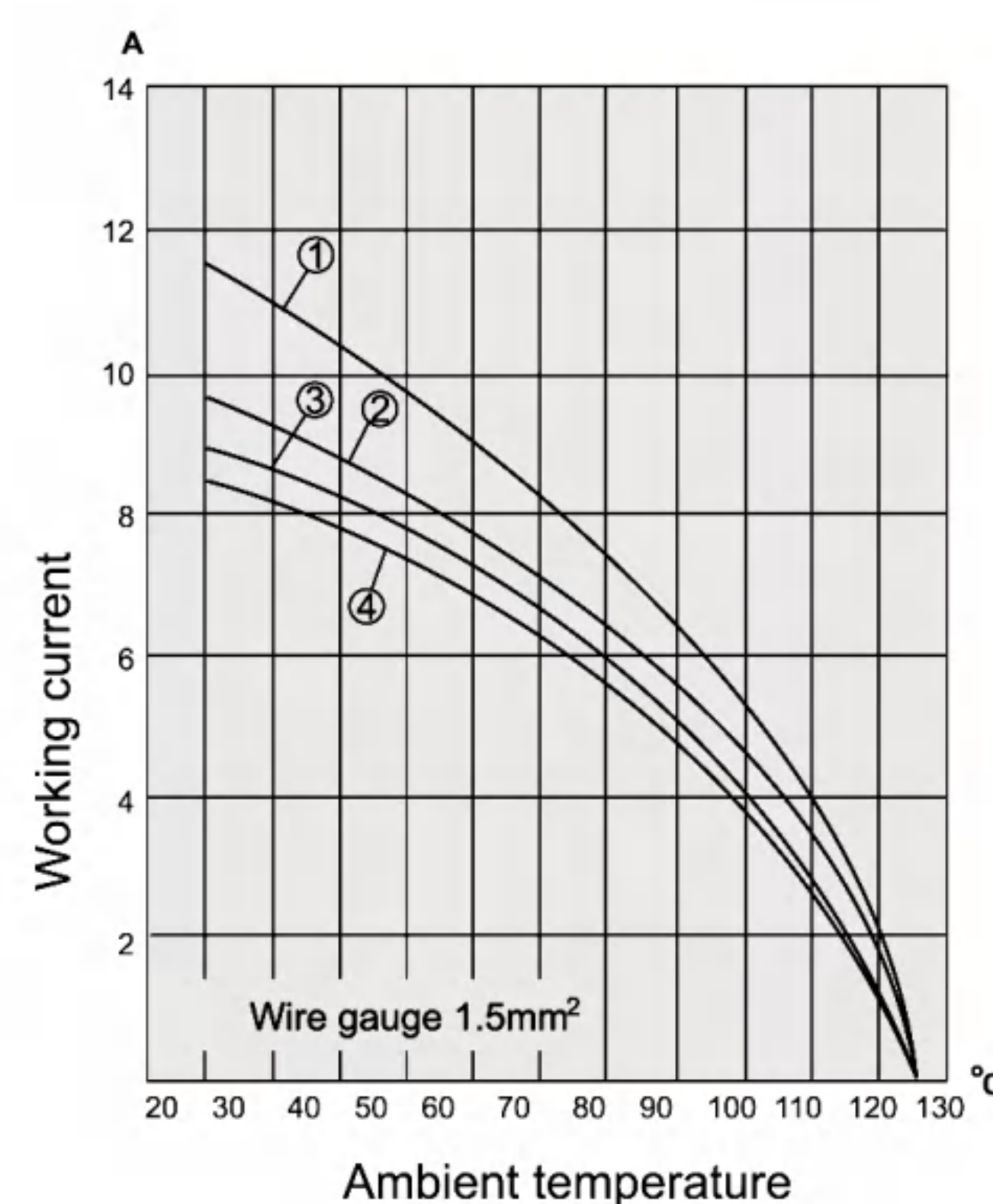
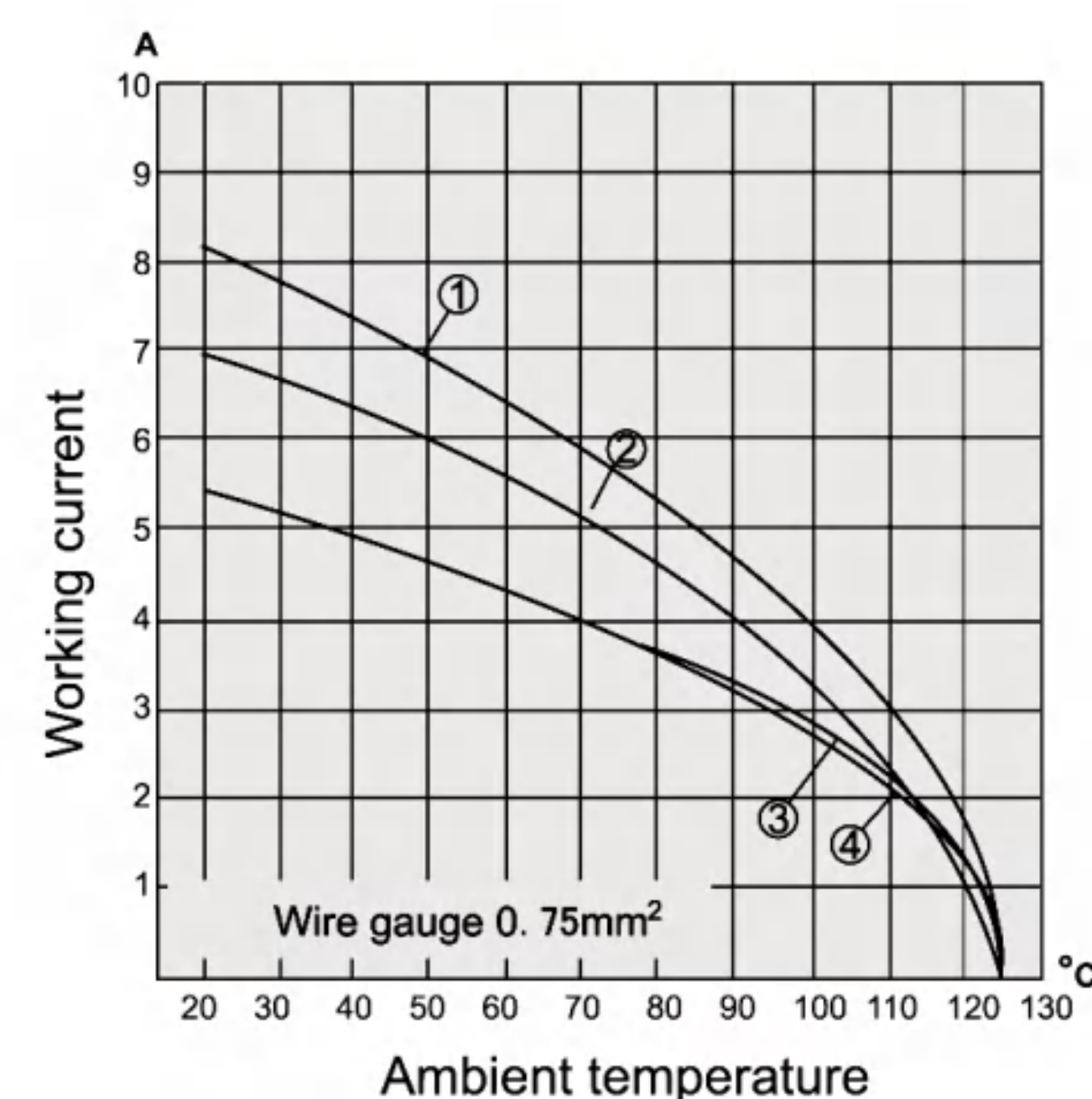


HDD technical characteristics

Control and test procedures according to DIN IEC 60512-3

Current carrying capacity

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



①HDD-024, ②HDD-042,
③HDD-072, ④HDD-0108

Specifications

DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inserts

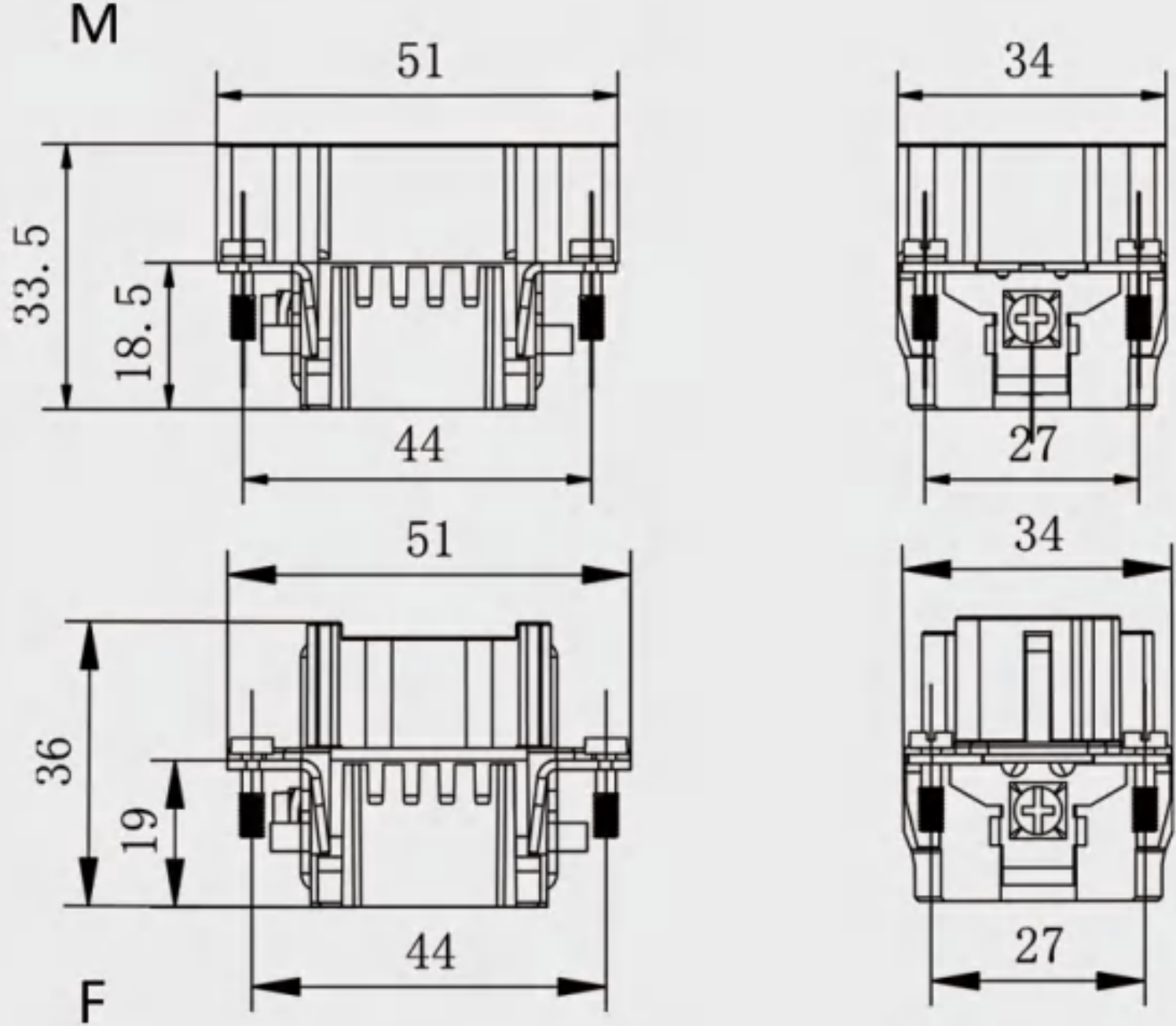
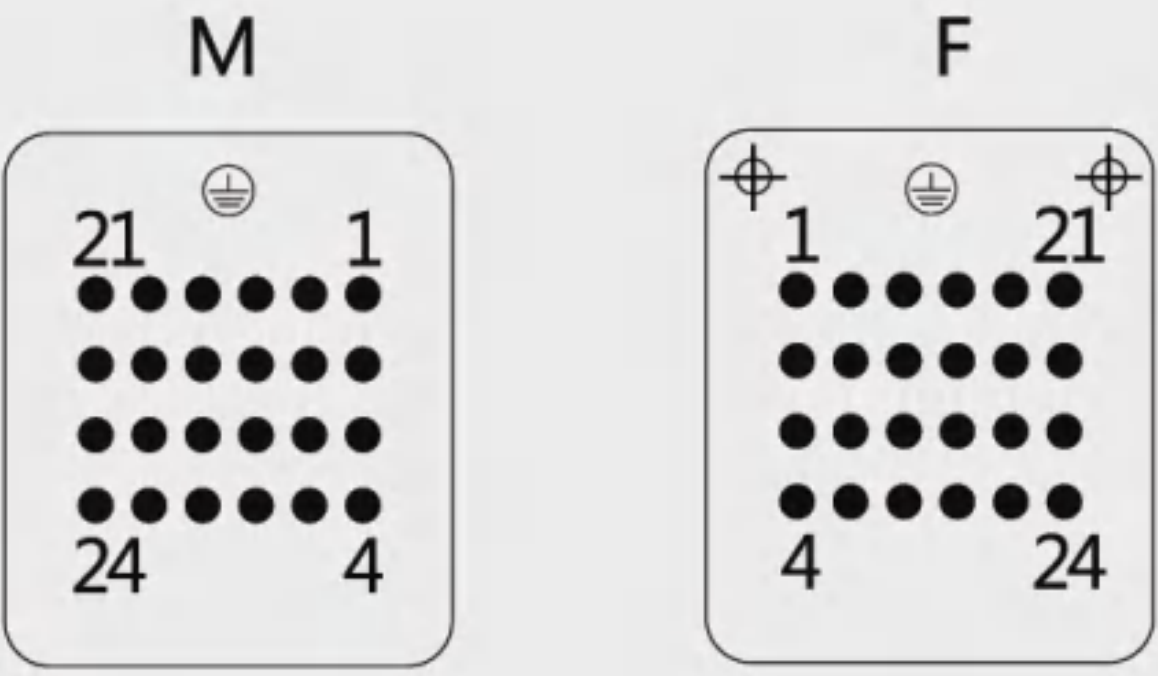
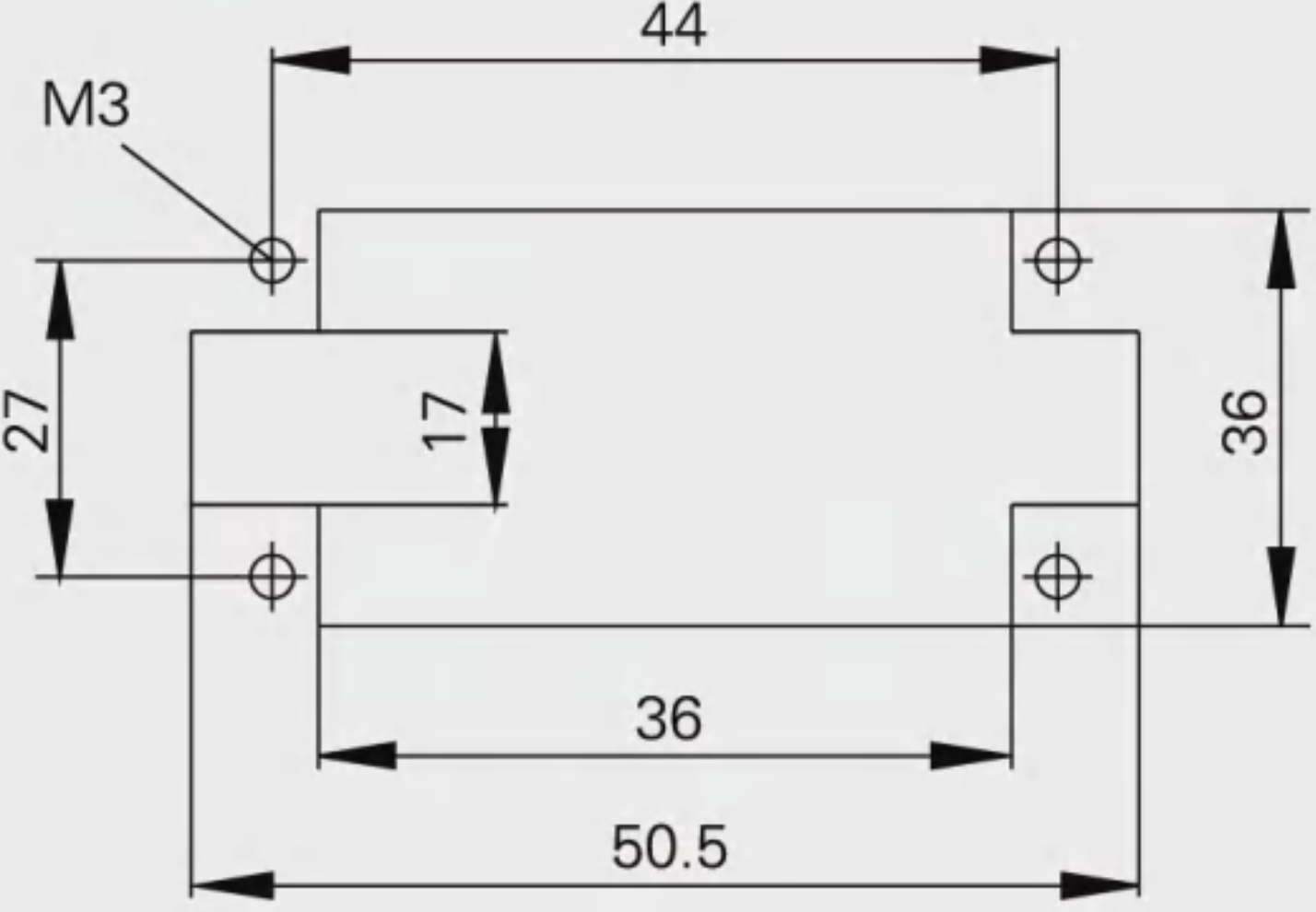
Number of contacts	24,42,72,108,144(2x72) 216(2x108)+PE
Workingcurrent (See current carrying capacity)	10A
Working voltage -Pollution degree 2	250V 230/400V
Pollution degree	3
Rated impulse voltage	4KV
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600V
Mechanical working life(mating cycles)	≥ 500

Contacts

Material	Copper alloy
Surface	Hard silver-plated Hard gold-plated
Contact resistance	$\leq 3m\Omega$
Wiring method Wire gauge	Crimp connection 0.14-2.5mm² 26-14

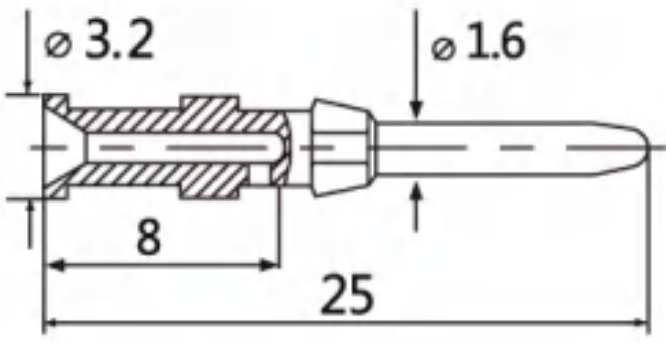
HDD-24+

For **H6B**,Hood/Housing Please Refer Page No. 146-155

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection 	HDD-024-M	3 024 050 20 101	Size  Maximum distance between inserts 21mm  Contacts arrangement view from termination side  Panel cutout drawing	HDD
	HDD-024-F	3 024 050 20 102		

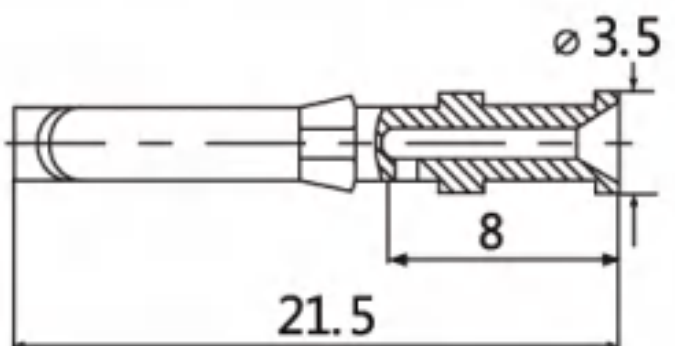
10A Crimp contacts

Male crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250

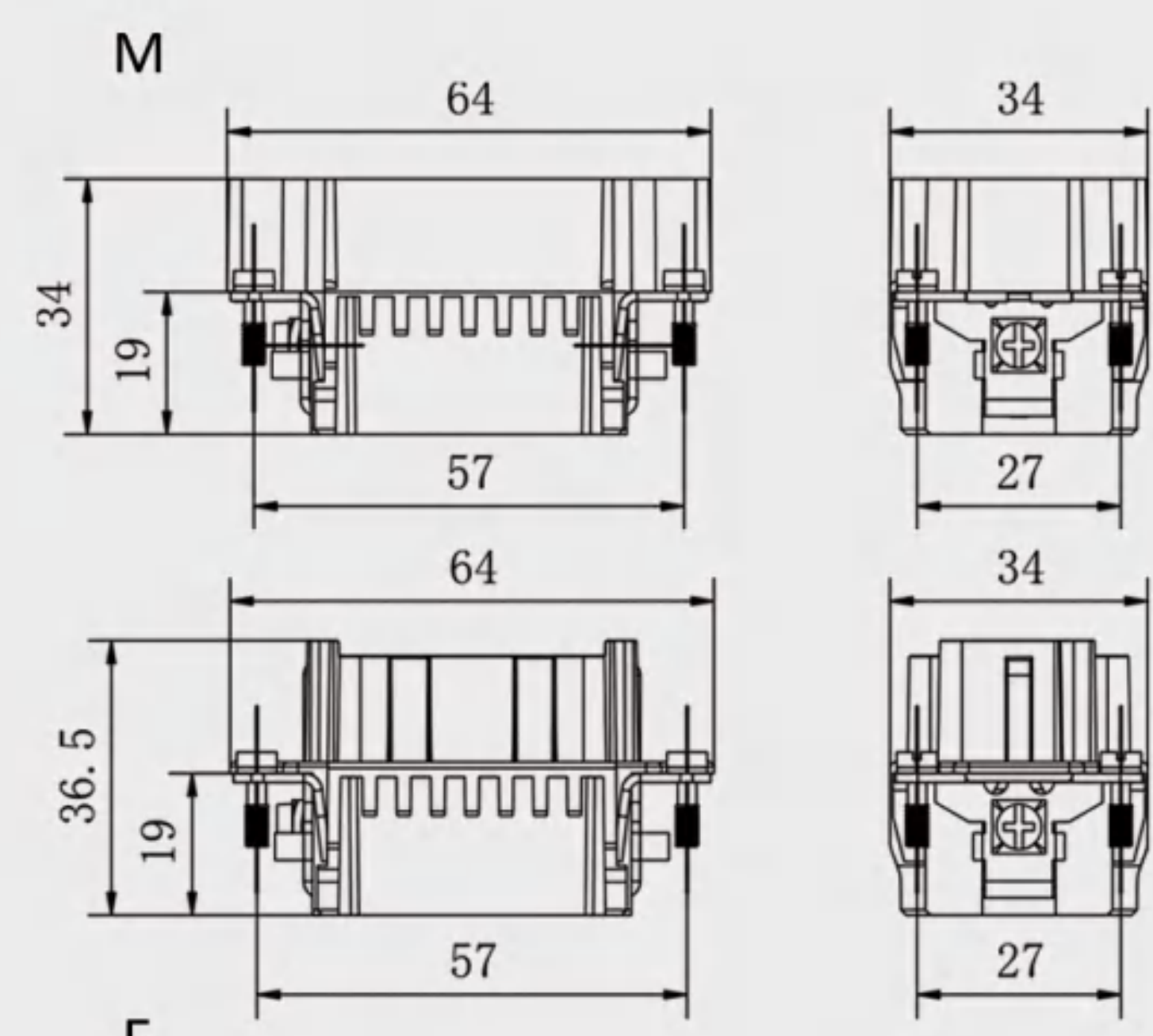
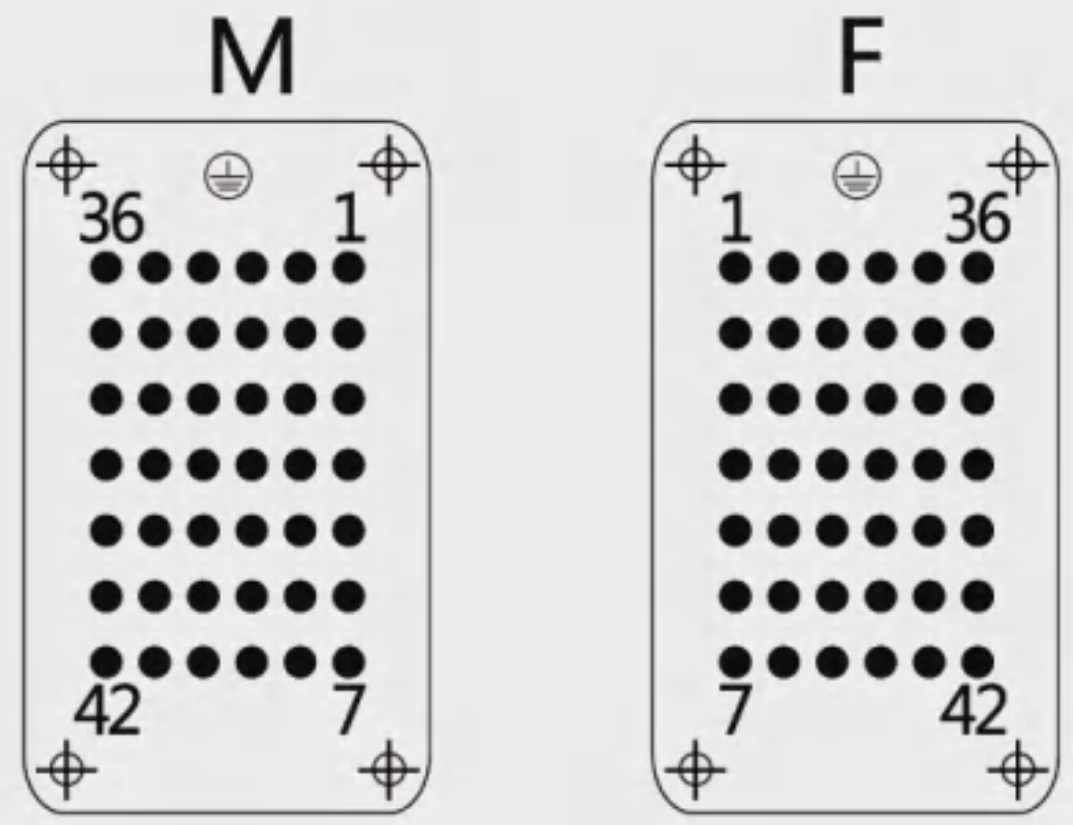
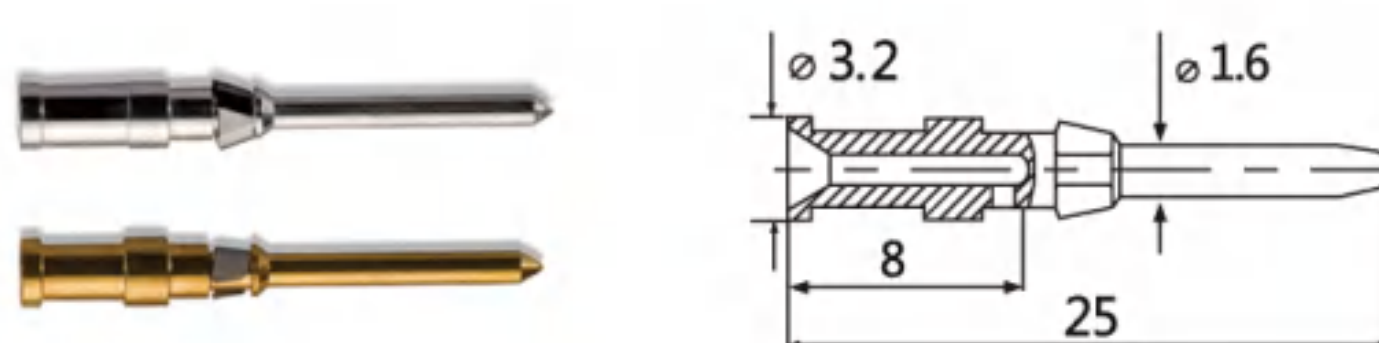
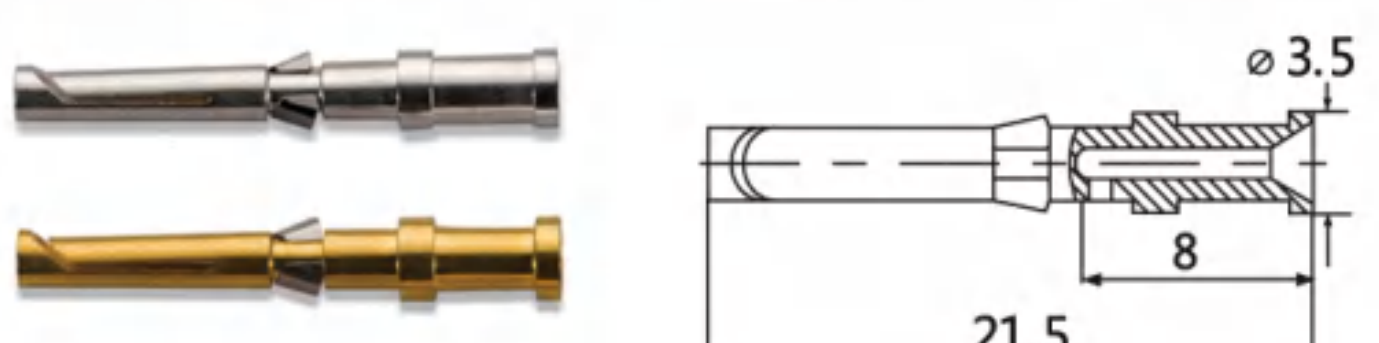
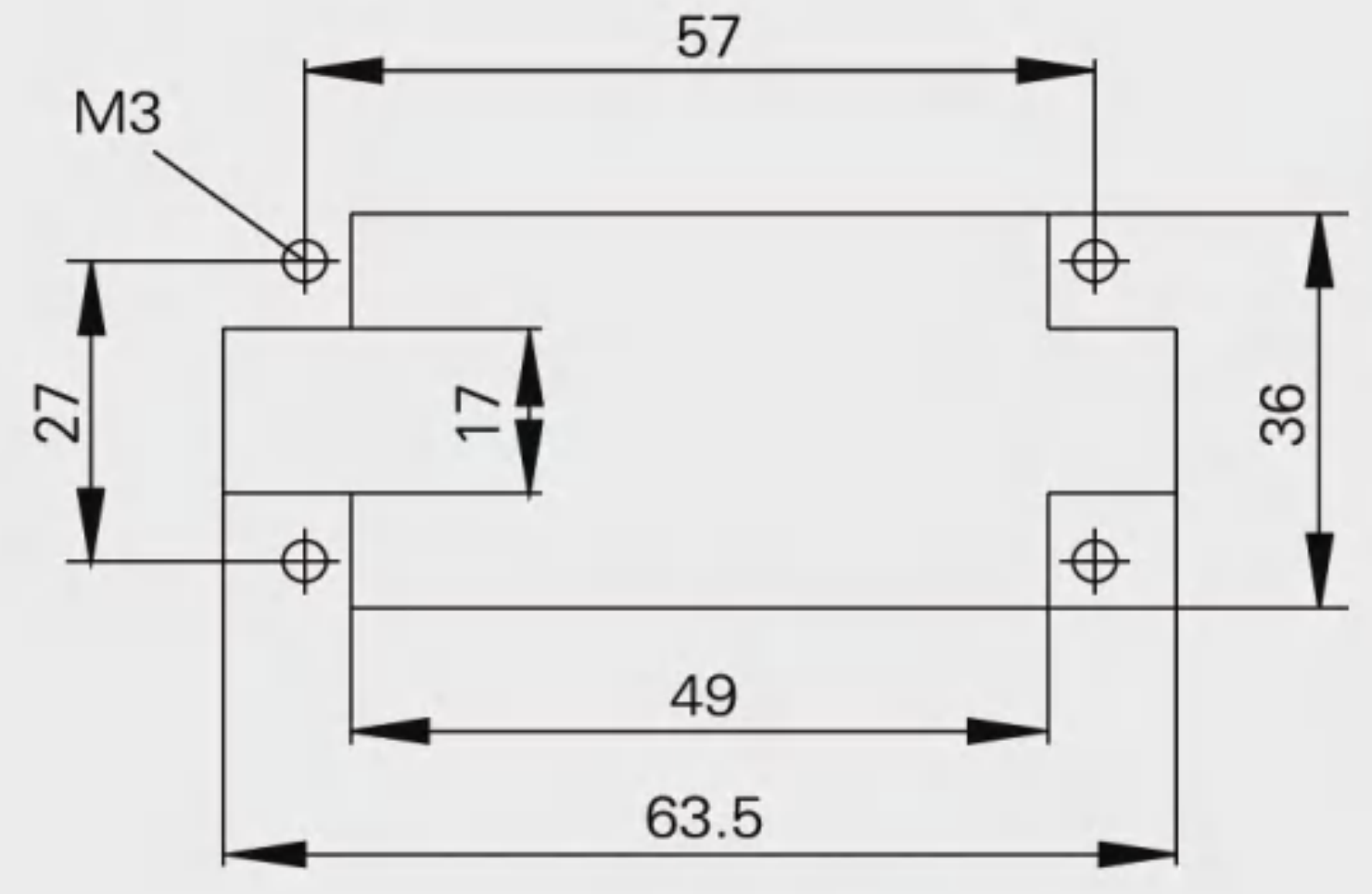
Female crimp contacts



Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250

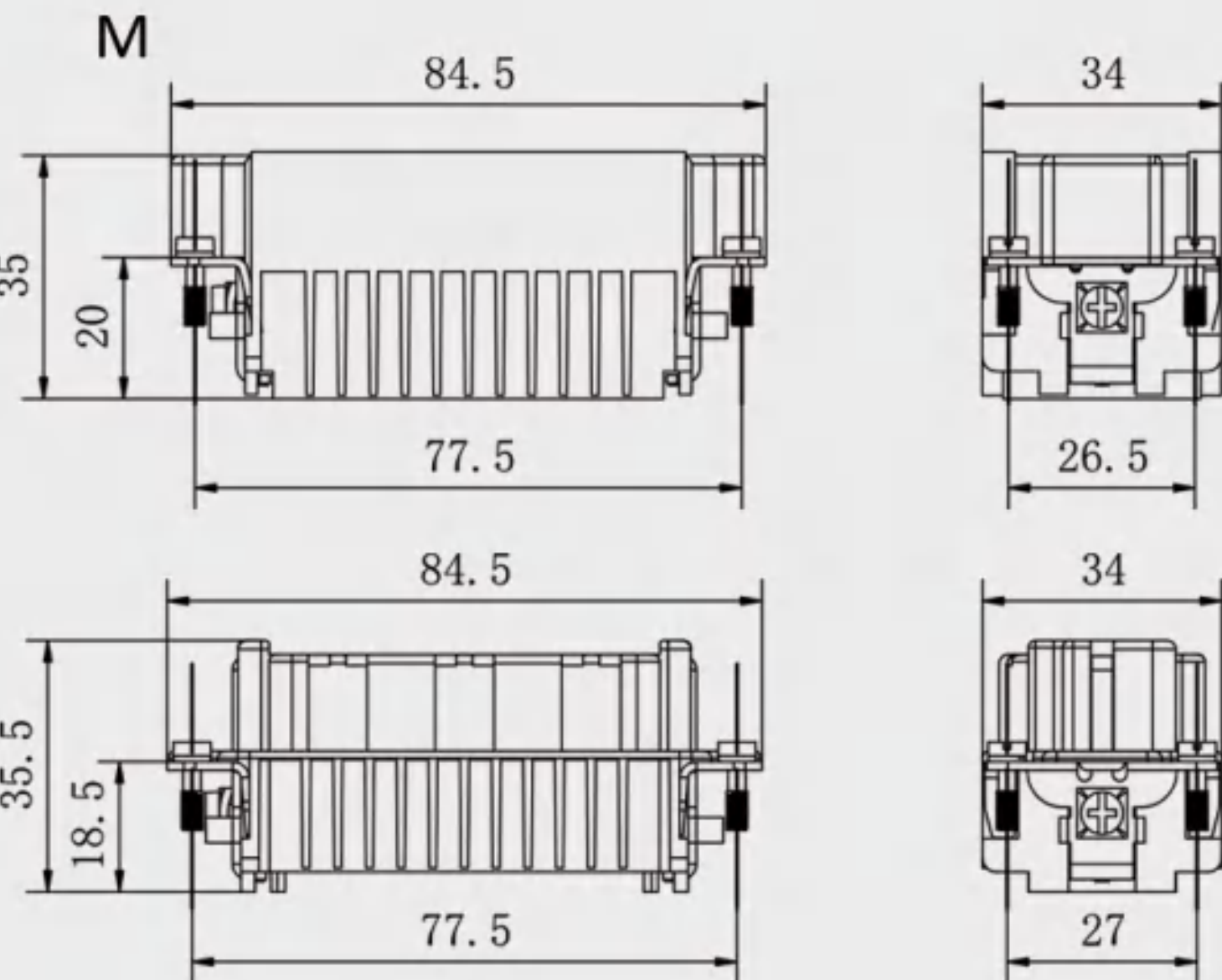
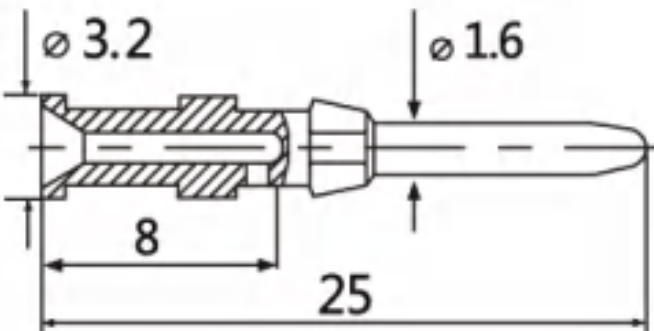
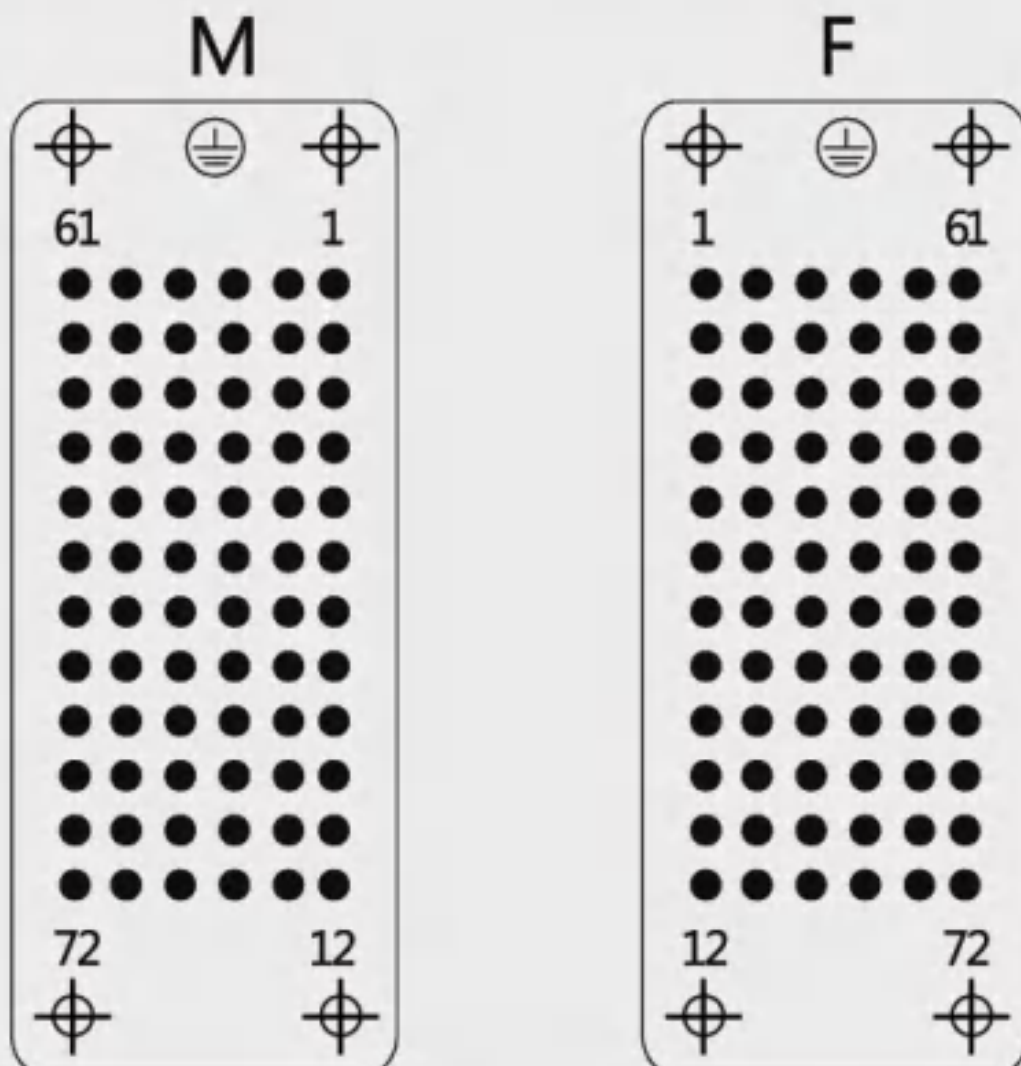
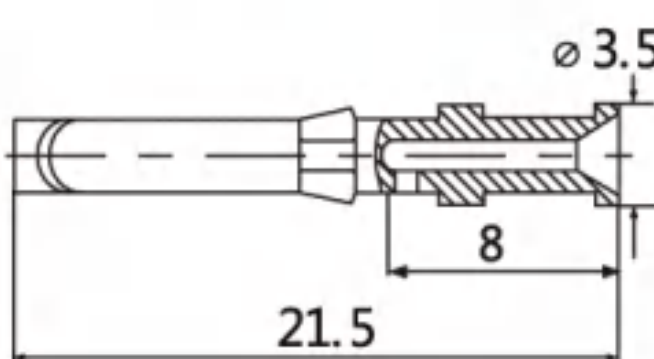
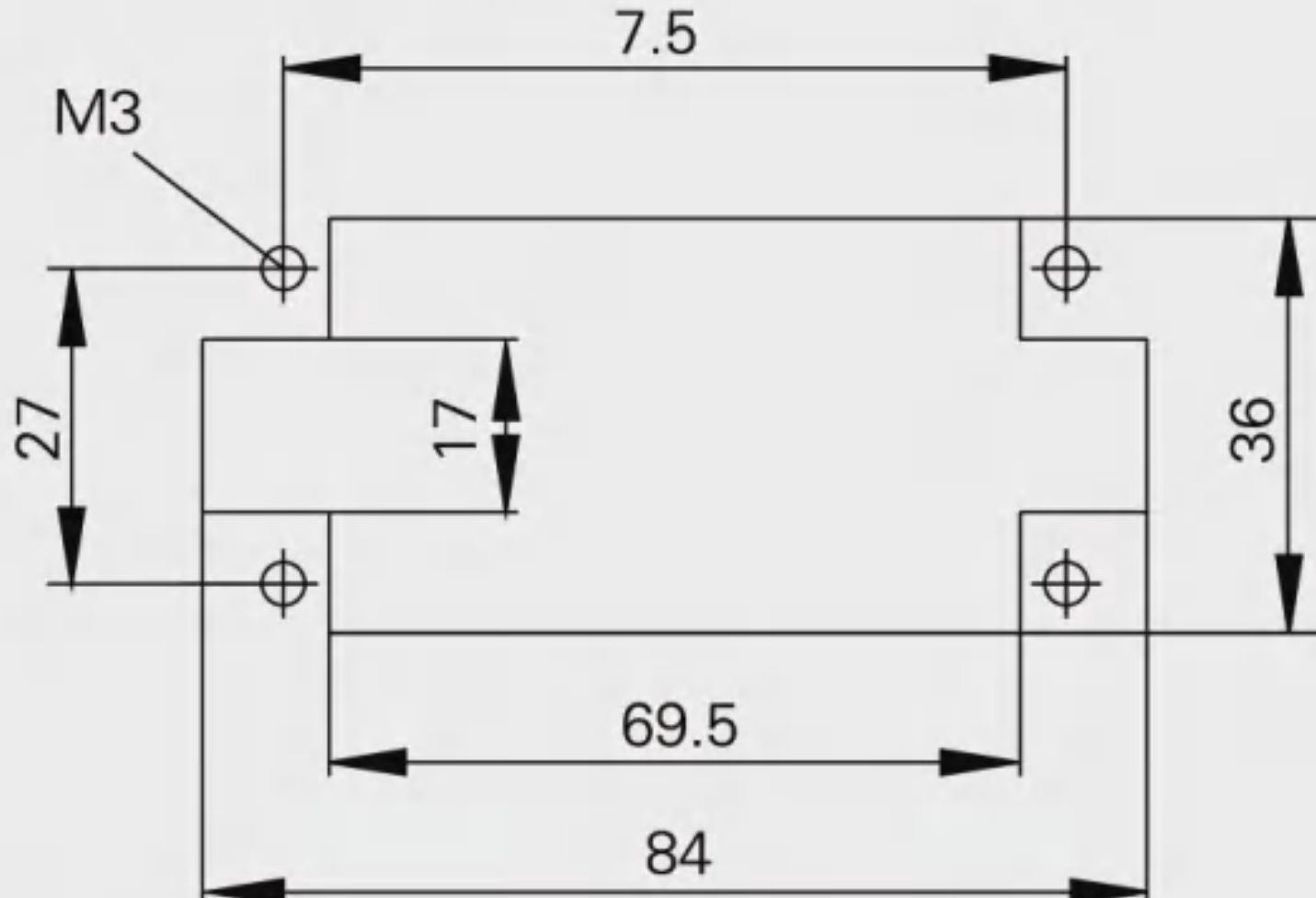
HDD-42+

For **H10B**,Hood/Housing Please Refer Page No. 156-170

Identification	Type	Order No.	Drawing	Dimensions mm																																																							
Crimp connection 	HDD-042-M HDD-042-F	3 042 050 20 101 3 042 050 20 102	Size  Maximum distance between inserts 21mm 																																																								
10A Crimp contacts Male crimp contacts  Female crimp contacts 		<table border="1"><thead><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr></thead><tbody><tr><td>DSM-0.37</td><td>4 010 110 10 037</td><td>DGM-0.37</td><td>4 010 210 10 037</td></tr><tr><td>DSM-0.5</td><td>4 010 110 10 050</td><td>DGM-0.5</td><td>4 010 210 10 050</td></tr><tr><td>DSM-0.75</td><td>4 010 110 10 075</td><td>DGM-0.75</td><td>4 010 210 10 075</td></tr><tr><td>DSM-1.0</td><td>4 010 110 10 100</td><td>DGM-1.0</td><td>4 010 210 10 100</td></tr><tr><td>DSM-1.5</td><td>4 010 110 10 150</td><td>DGM-1.5</td><td>4 010 210 10 150</td></tr><tr><td>DSM-2.5</td><td>4 010 110 10 250</td><td>DGM-2.5</td><td>4 010 210 10 250</td></tr></tbody></table> <table border="1"><thead><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr></thead><tbody><tr><td>DSF-0.37</td><td>4 010 110 20 037</td><td>DGF-0.37</td><td>4 010 210 20 037</td></tr><tr><td>DSF-0.5</td><td>4 010 110 20 050</td><td>DGF-0.5</td><td>4 010 210 20 050</td></tr><tr><td>DSF-0.75</td><td>4 010 110 20 075</td><td>DGF-0.75</td><td>4 010 210 20 075</td></tr><tr><td>DSF-1.0</td><td>4 010 110 20 100</td><td>DGF-1.0</td><td>4 010 210 20 100</td></tr><tr><td>DSF-1.5</td><td>4 010 110 20 150</td><td>DGF-1.5</td><td>4 010 210 20 150</td></tr><tr><td>DSF-2.5</td><td>4 010 110 20 250</td><td>DGF-2.5</td><td>4 010 210 20 250</td></tr></tbody></table>	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037	DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050	DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075	DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100	DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150	DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037	DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050	DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075	DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100	DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150	DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250	Contacts arrangement view from termination side  Panel cutout drawing
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																																																								
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DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150																																																								
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250																																																								

HDD-72+

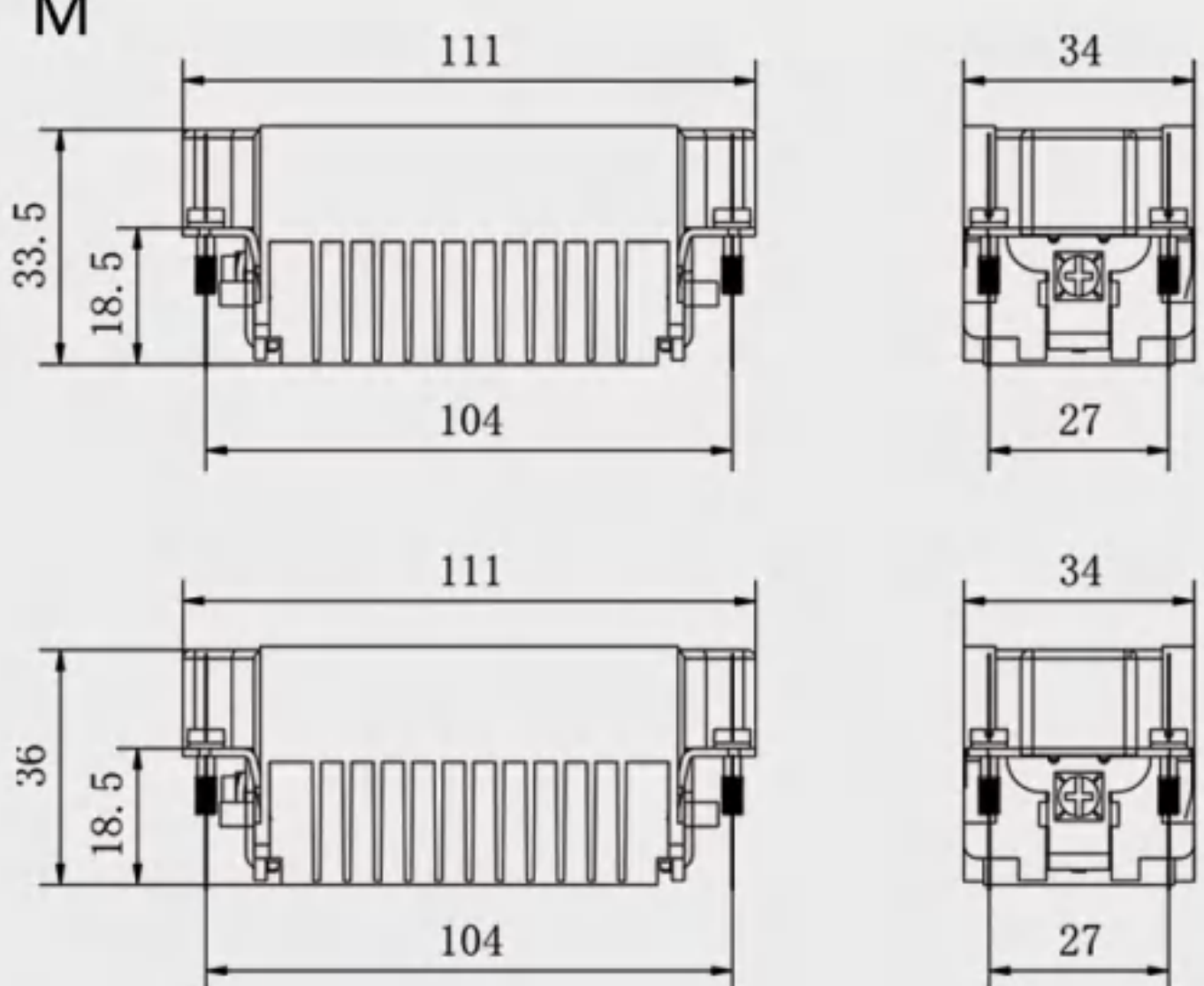
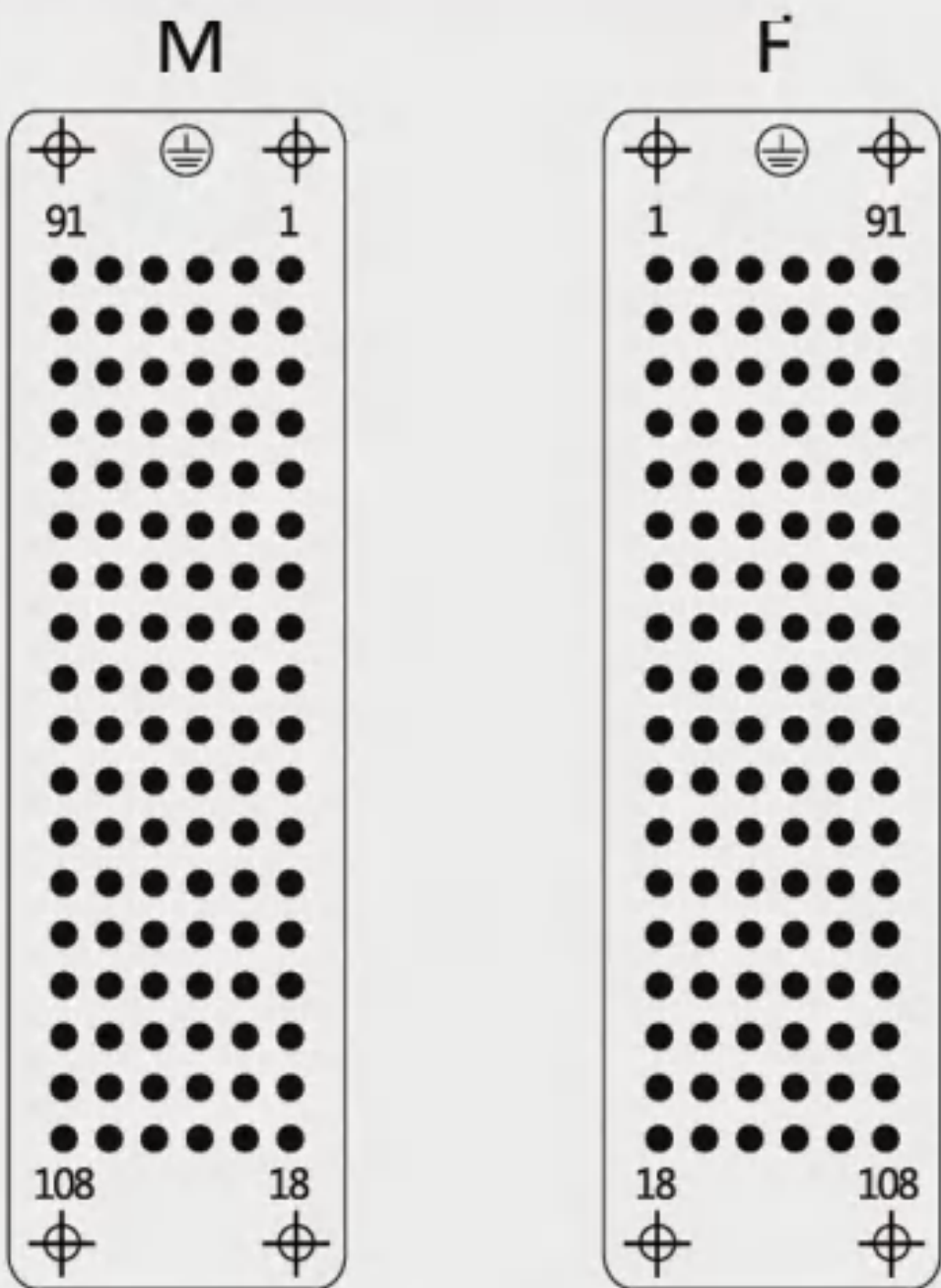
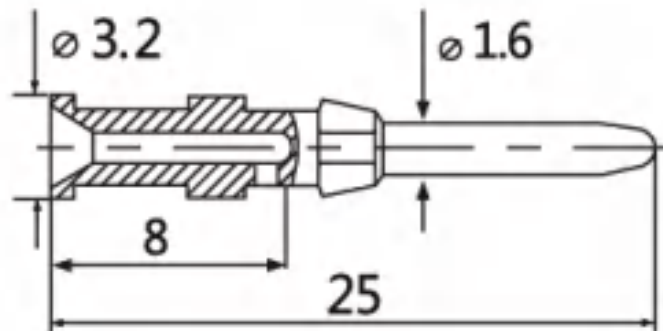
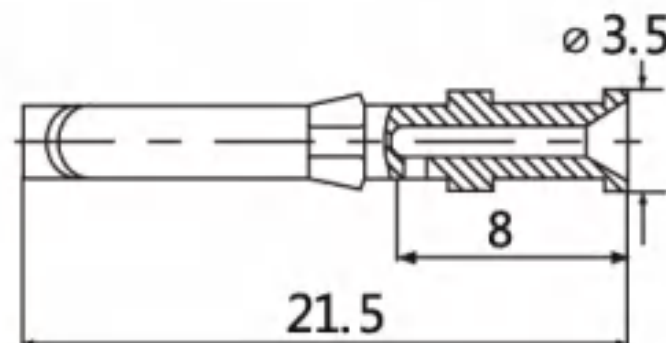
For **H16B**,Hood/Housing Please Refer Page No. 171-185

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection			Size	
	HDD-072-M	3 072 050 20 101	F	Maximum distance between inserts 21mm
	HDD-072-F	3 072 050 20 102	M	F
10A Crimp contacts	Male crimp contacts			
	Female crimp contacts			
	Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
	DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
	DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
	DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
	DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
	DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
	DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250
	Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
	DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
	DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
	DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
	DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
	DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
	DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250

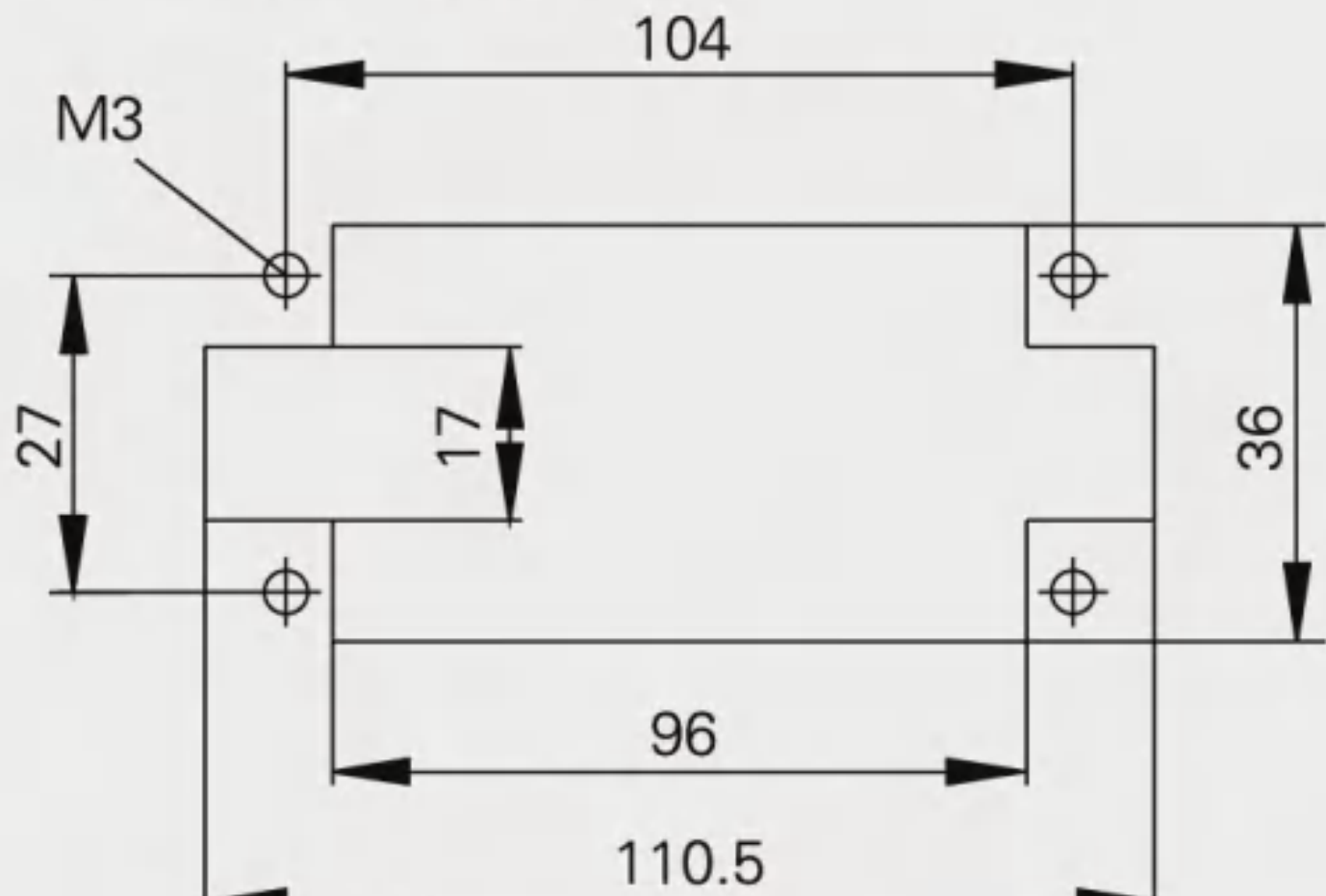
HDD

HDD-108+

For **H24B**,Hood/Housing Please Refer Page No.186-201

Identification	Type	Order No.	Drawing	Dimensions mm																												
Crimp connection  	HDD-108-M HDD-108-F	3 108 050 20 101 3 108 050 20 102	Size M  F Maximum distance between inserts 21mm 																													
10A Crimp contacts																																
Male crimp contacts  																																
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Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																													
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DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100																													
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DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250																													
Female crimp contacts  																																
<table border="1"><thead><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr></thead><tbody><tr><td>DSF-0.37</td><td>4 010 110 20 037</td><td>DGF-0.37</td><td>4 010 210 20 037</td></tr><tr><td>DSF-0.5</td><td>4 010 110 20 050</td><td>DGF-0.5</td><td>4 010 210 20 050</td></tr><tr><td>DSF-0.75</td><td>4 010 110 20 075</td><td>DGF-0.75</td><td>4 010 210 20 075</td></tr><tr><td>DSF-1.0</td><td>4 010 110 20 100</td><td>DGF-1.0</td><td>4 010 210 20 100</td></tr><tr><td>DSF-1.5</td><td>4 010 110 20 150</td><td>DGF-1.5</td><td>4 010 210 20 150</td></tr><tr><td>DSF-2.5</td><td>4 010 110 20 250</td><td>DGF-2.5</td><td>4 010 210 20 250</td></tr></tbody></table>	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037	DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050	DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075	DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100	DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150	DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250				
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																													
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DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100																													
DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150																													
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250																													

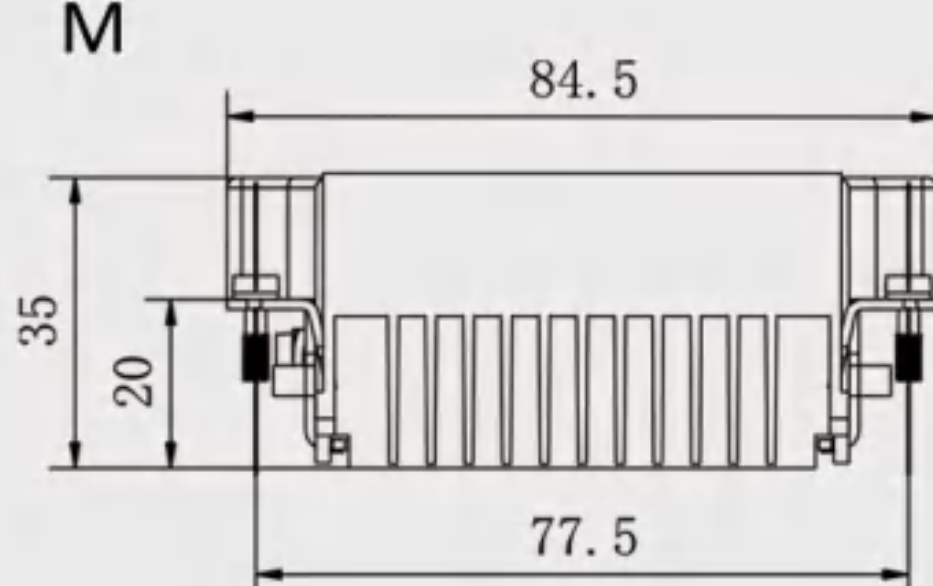
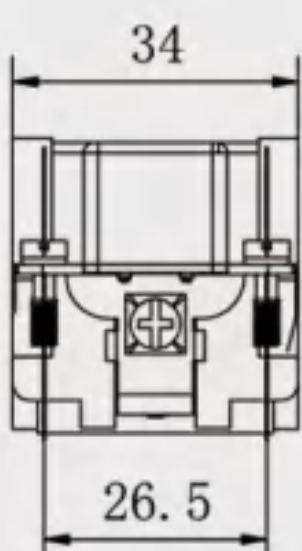
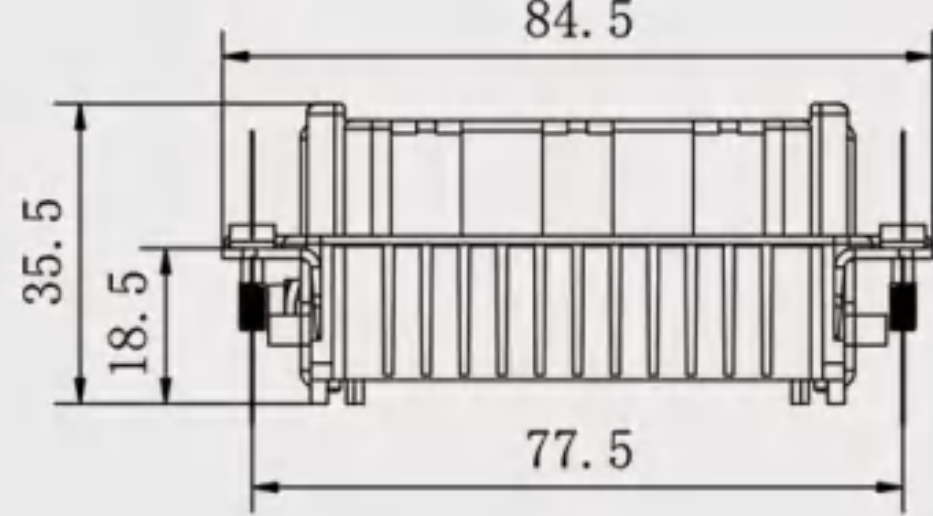
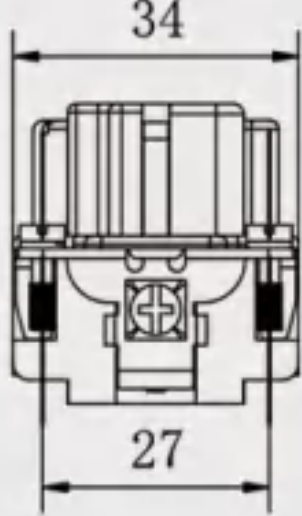
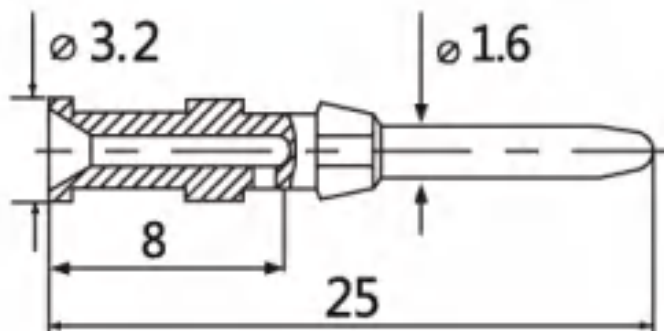
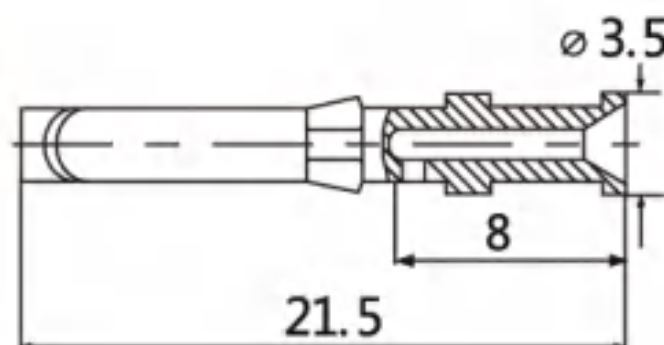
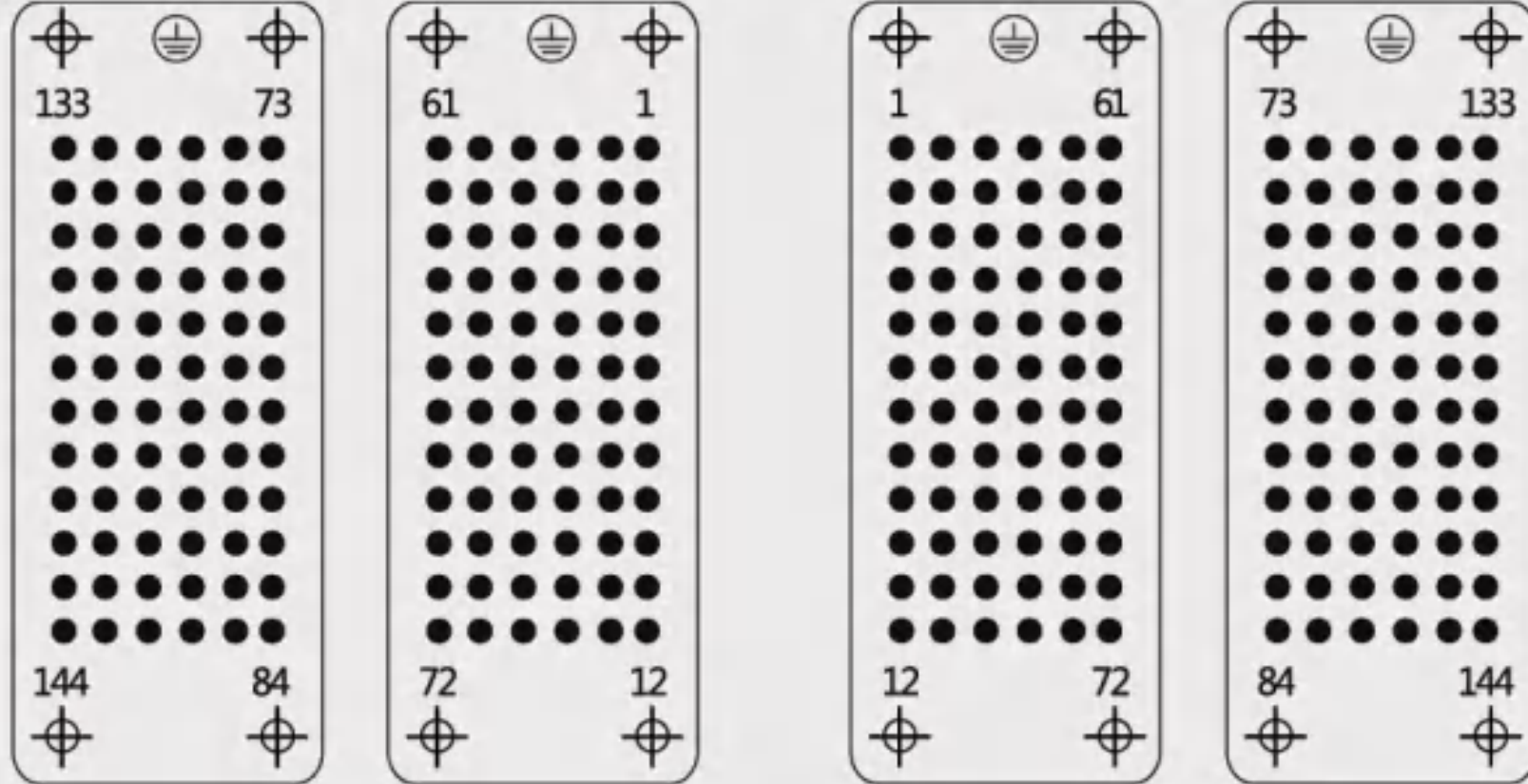
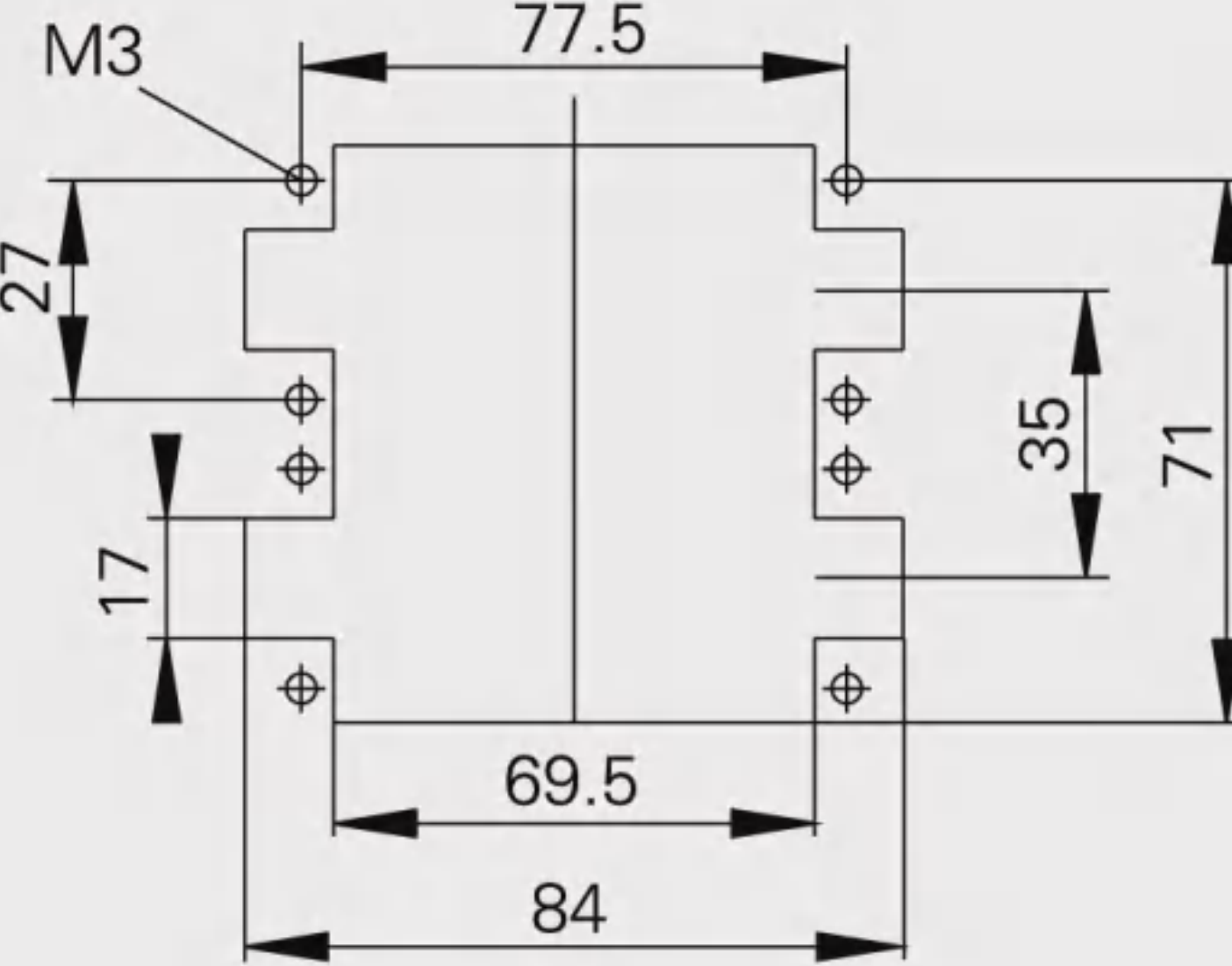
Contacts arrangement view from termination side



Panel cutout drawing

HDD-144+

For **H32B**,Hood/Housing Please Refer Page No. 202-207

Identification	Type	Order No.	Drawing	Dimensions mm																											
Size																															
Crimp connection  	HDD-072-M	3 072 050 20 101	M   F Maximum distance between inserts 21mm	M  																											
	HDD-144-M(73-144)	3 144 050 20 101																													
	HDD-072-F	3 072 050 20 102																													
	HDD-144-F(73-144)	3 144 050 20 102																													
10A Crimp contacts																															
Male crimp contacts	 																														
	<table><tr><th>Contacts,Silver-plated</th><th>Order No.</th><th>Contacts,Gold-plated</th><th>Order No.</th></tr><tr><td>DSM-0.37</td><td>4 010 110 10 037</td><td>DGM-0.37</td><td>4 010 210 10 037</td></tr><tr><td>DSM-0.5</td><td>4 010 110 10 050</td><td>DGM-0.5</td><td>4 010 210 10 050</td></tr><tr><td>DSM-0.75</td><td>4 010 110 10 075</td><td>DGM-0.75</td><td>4 010 210 10 075</td></tr><tr><td>DSM-1.0</td><td>4 010 110 10 100</td><td>DGM-1.0</td><td>4 010 210 10 100</td></tr><tr><td>DSM-1.5</td><td>4 010 110 10 150</td><td>DGM-1.5</td><td>4 010 210 10 150</td></tr><tr><td>DSM-2.5</td><td>4 010 110 10 250</td><td>DGM-2.5</td><td>4 010 210 10 250</td></tr></table>				Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.	DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037	DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050	DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075	DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100	DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150	DSM-2.5	4 010 110 10 250	DGM-2.5
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																												
DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037																												
DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050																												
DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075																												
DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100																												
DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150																												
DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250																												
Female crimp contacts	 																														
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Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.																												
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DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075																												
DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100																												
DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150																												
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250																												
			 																												

HDD

HDD-216+

For **H48B**,Hood/Housing Please Refer Page No. 208-209

Identification

Crimp connection





Type

HDD-108-M

HDD-216-M(109-216)

HDD-108-F

HDD-216-F(109-216)

Order No.

3 108 050 20 101

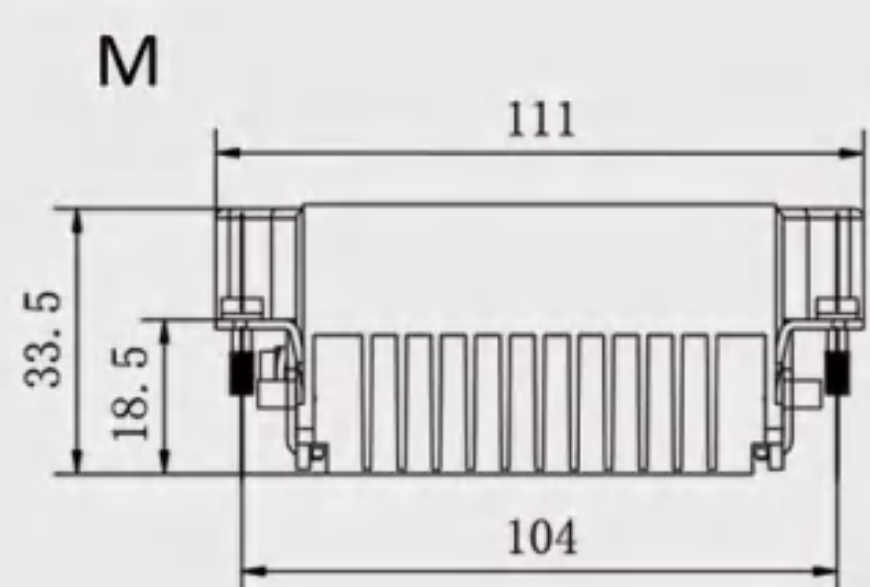
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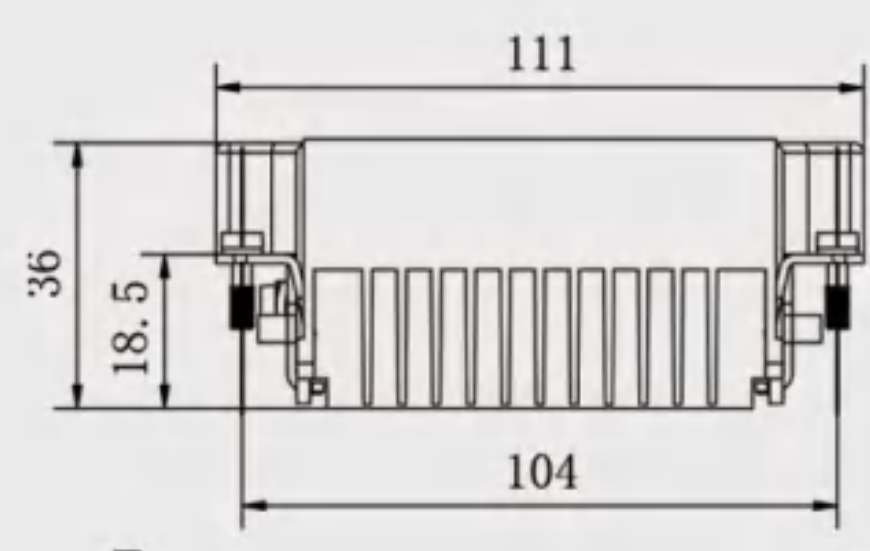
3 108 050 20 102

3 216 050 20 102

Size

M

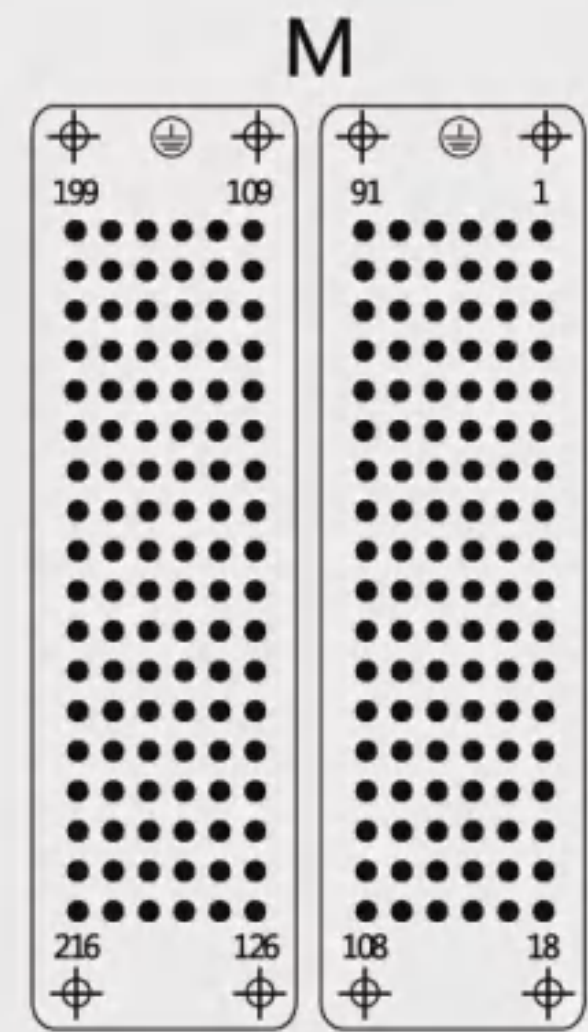




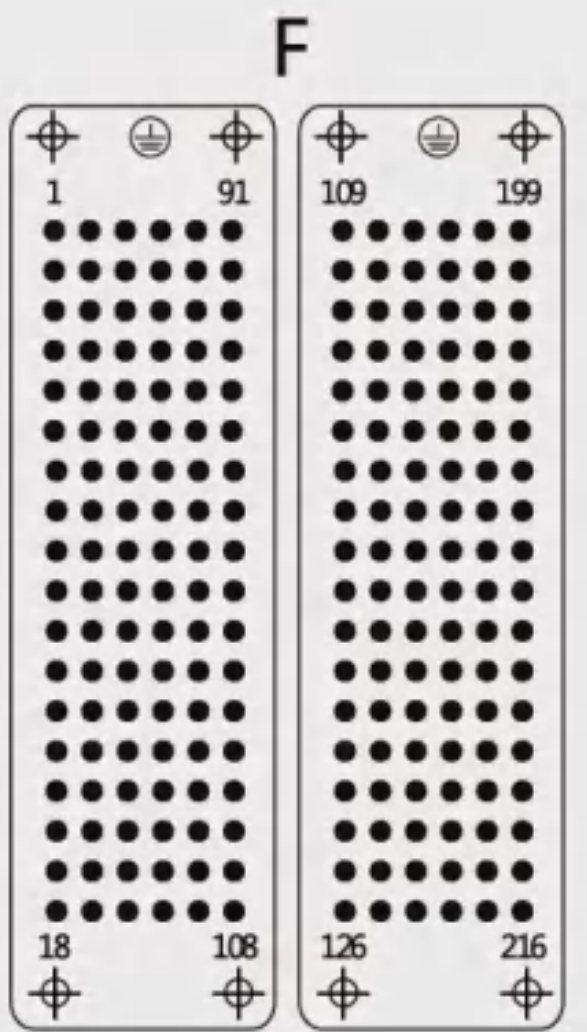
F

Maximum distance between inserts 21mm

M



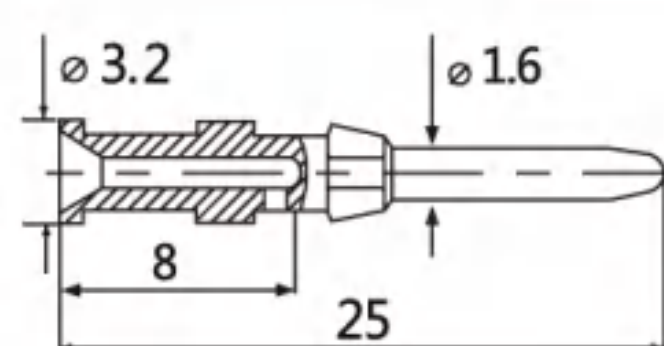
F



10A Crimp contacts

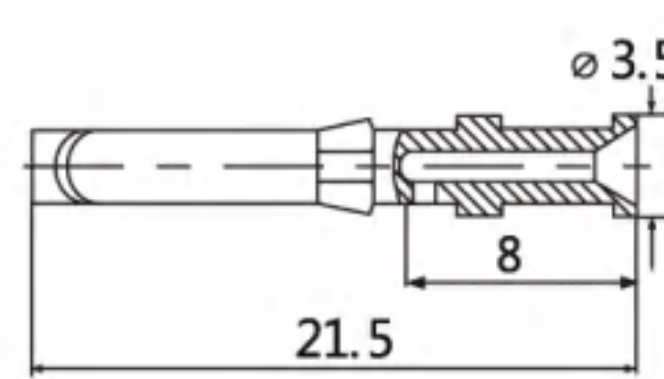
Male crimp contacts





Female crimp contacts

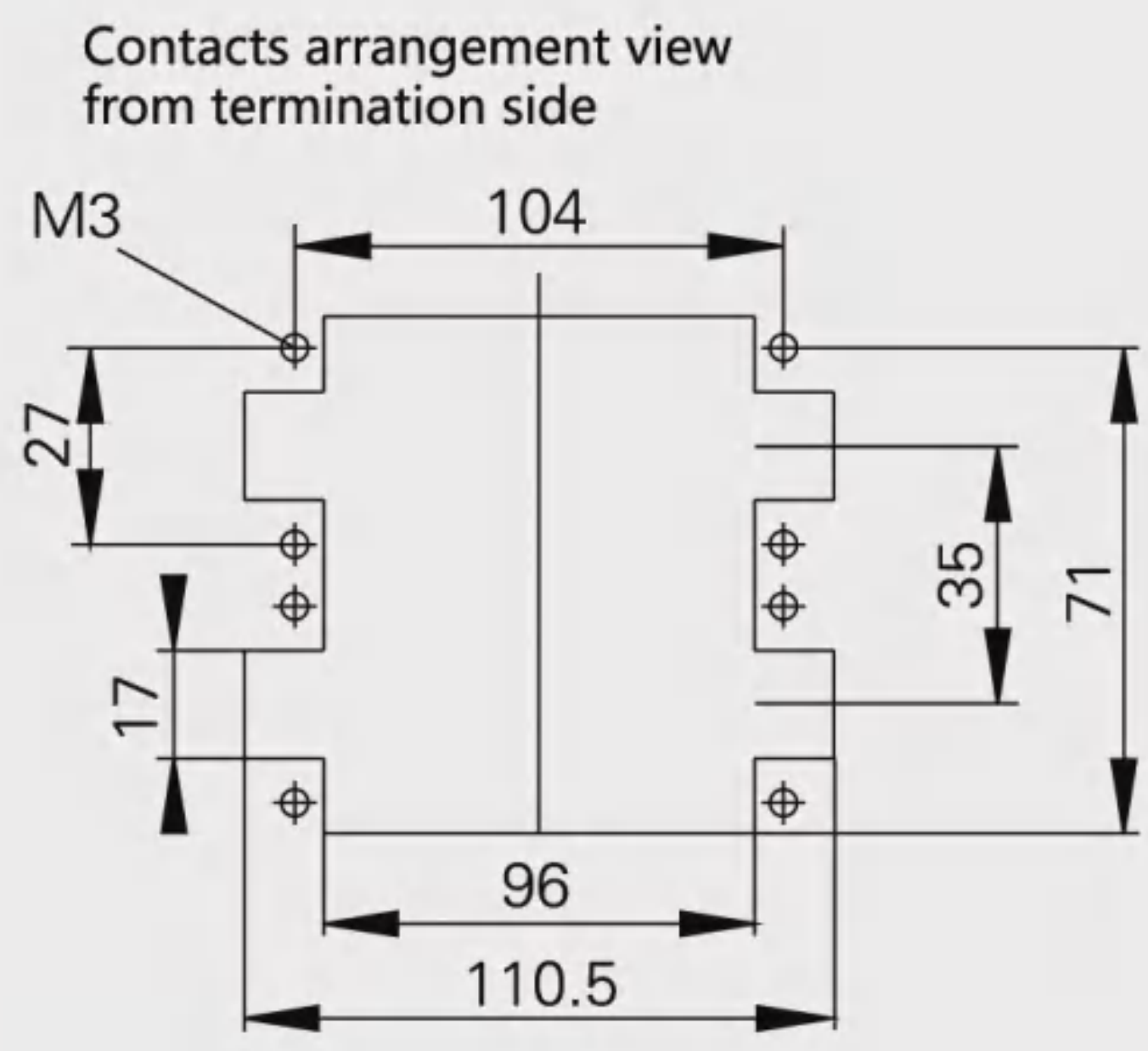




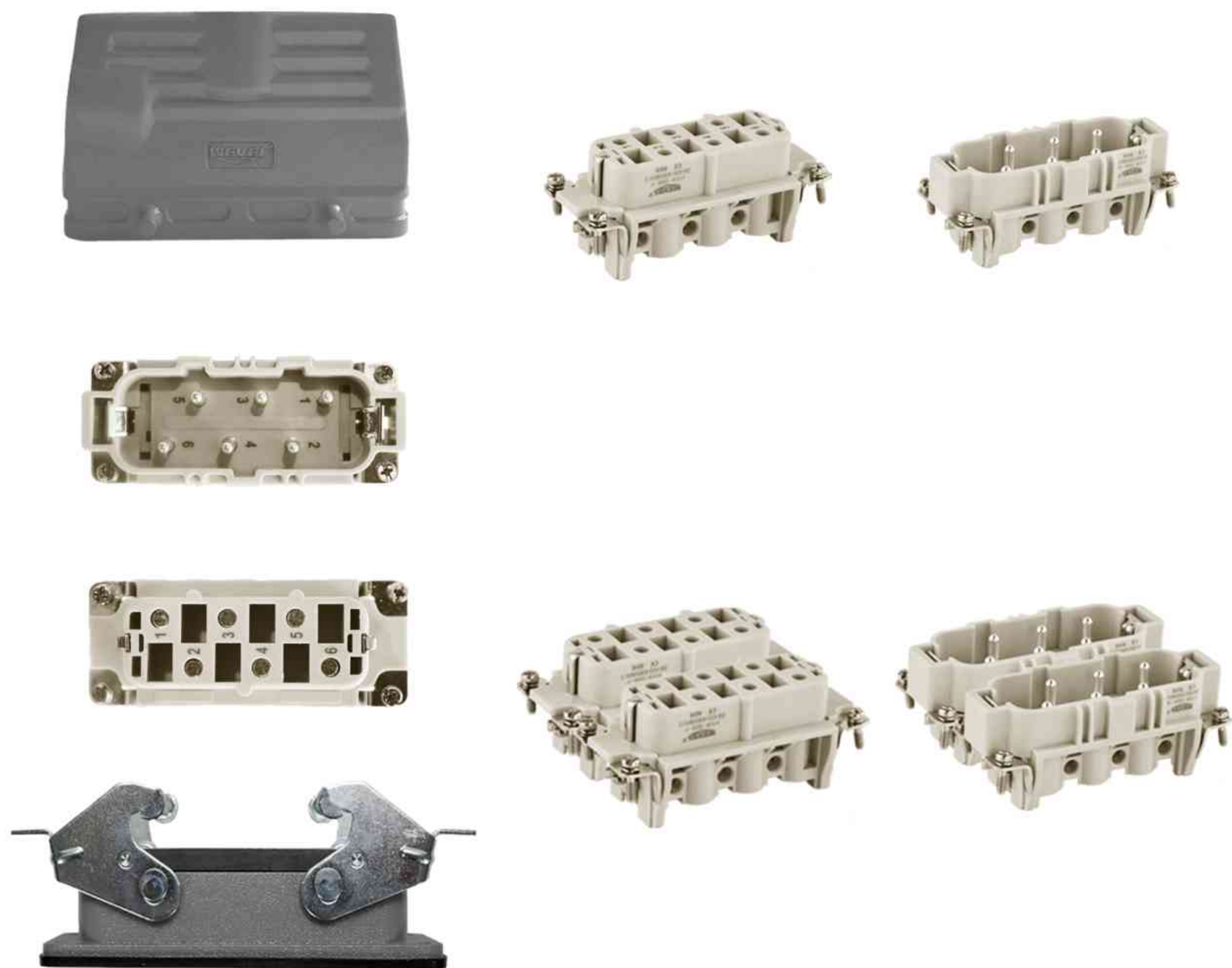
Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250

Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250

Contacts arrangement view from termination side



Panel cutout drawing



HSB

35A high-current connector

HSB technical characteristics



HSB technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

HSB

Specifications

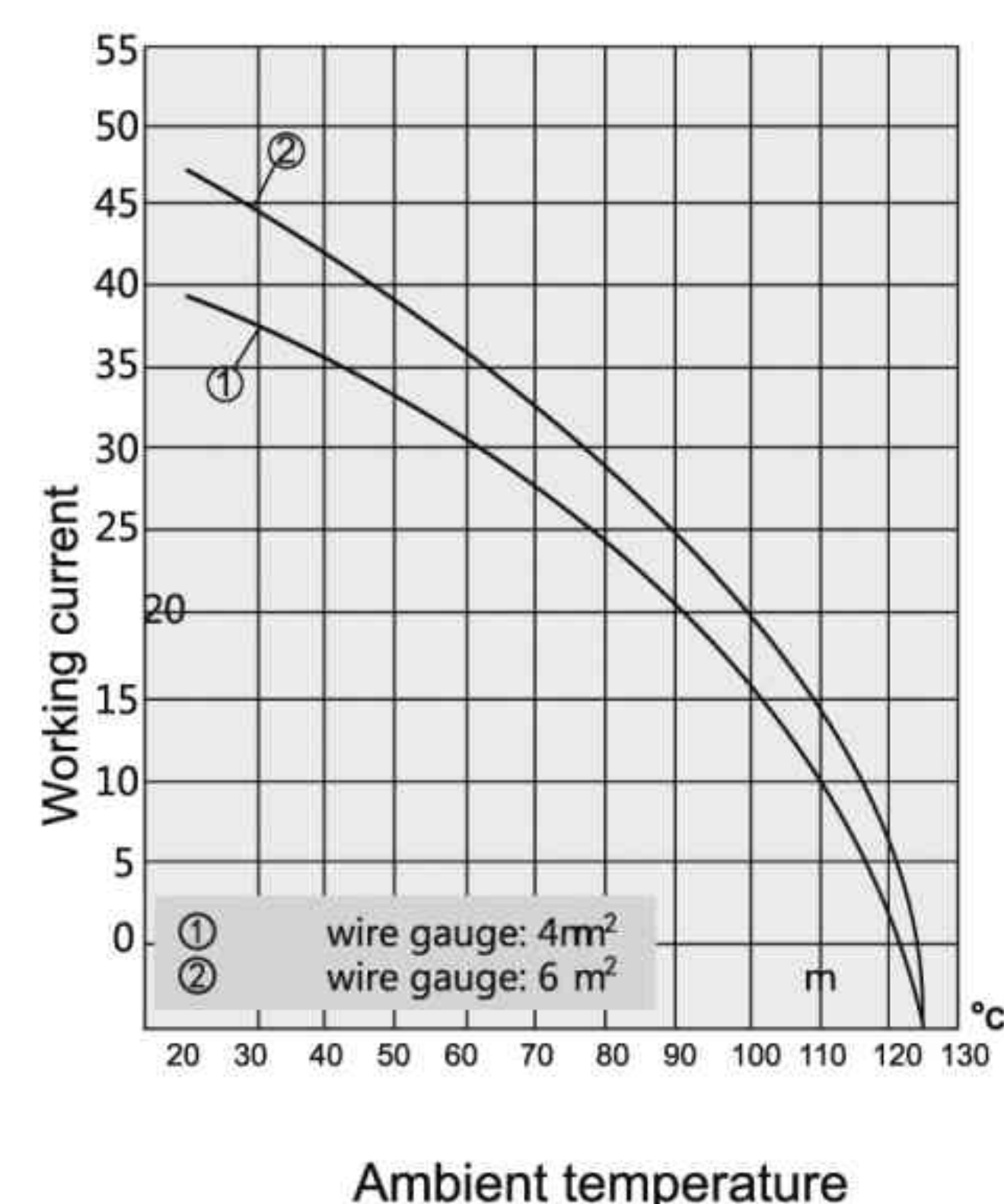
DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inserts

Number of contacts	6,12(2x6)+PE
Working current (See current carrying capacity)	35A
Working voltage -Pollution degree 2	400/690V
Pollution degree	3
Rated impulse voltage	6KV
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600V
Mechanical working life(mating cycles)	≥ 500

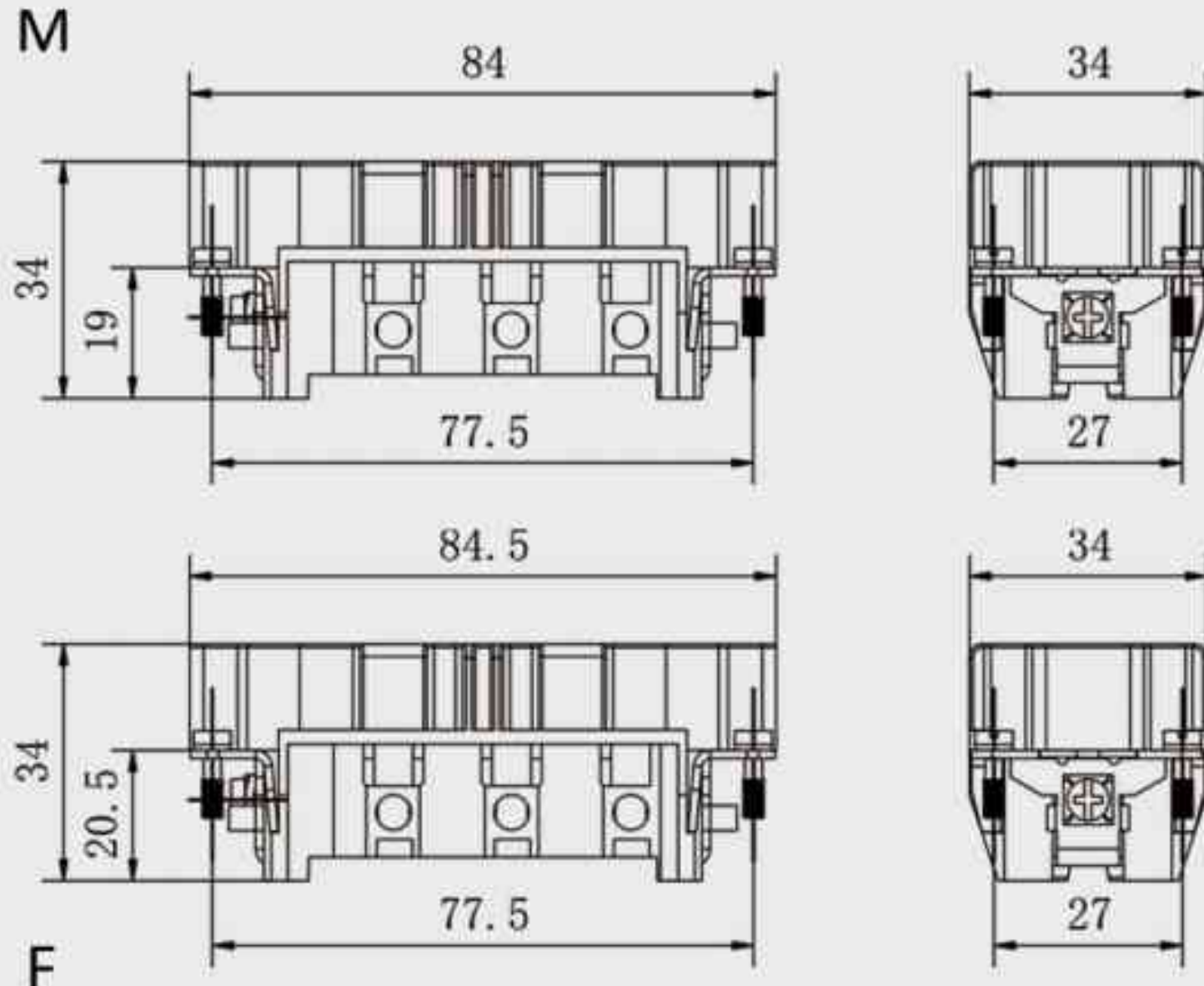
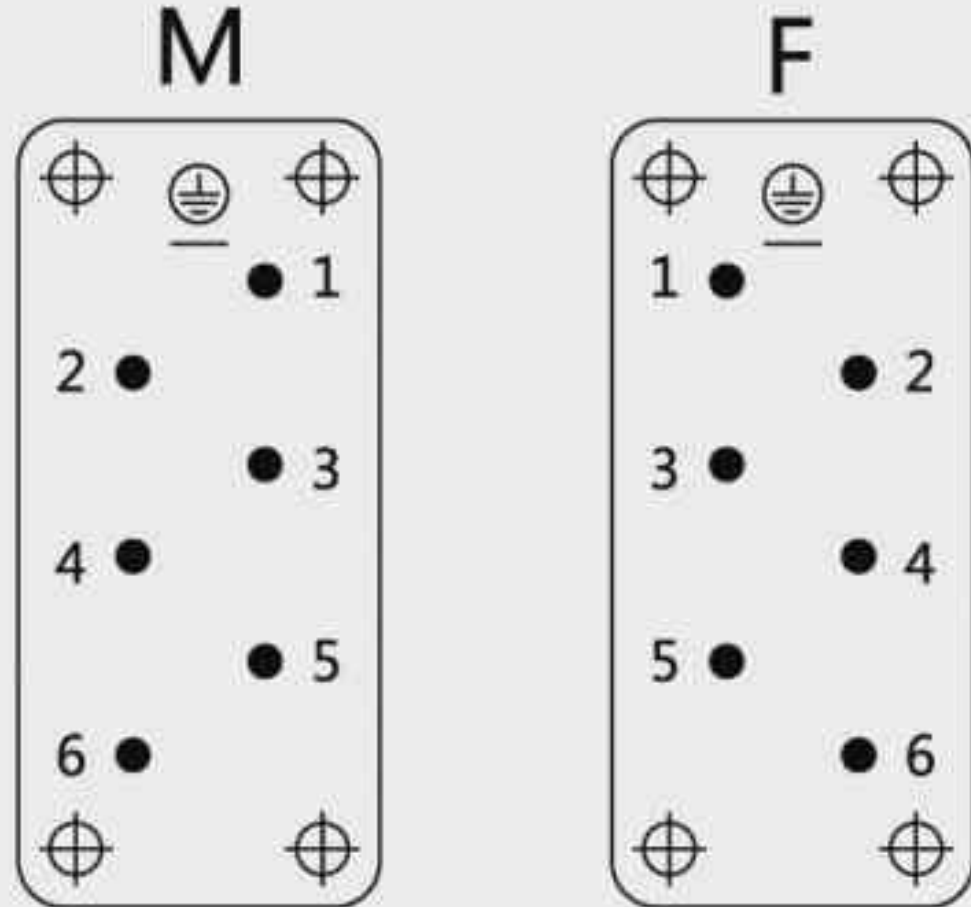
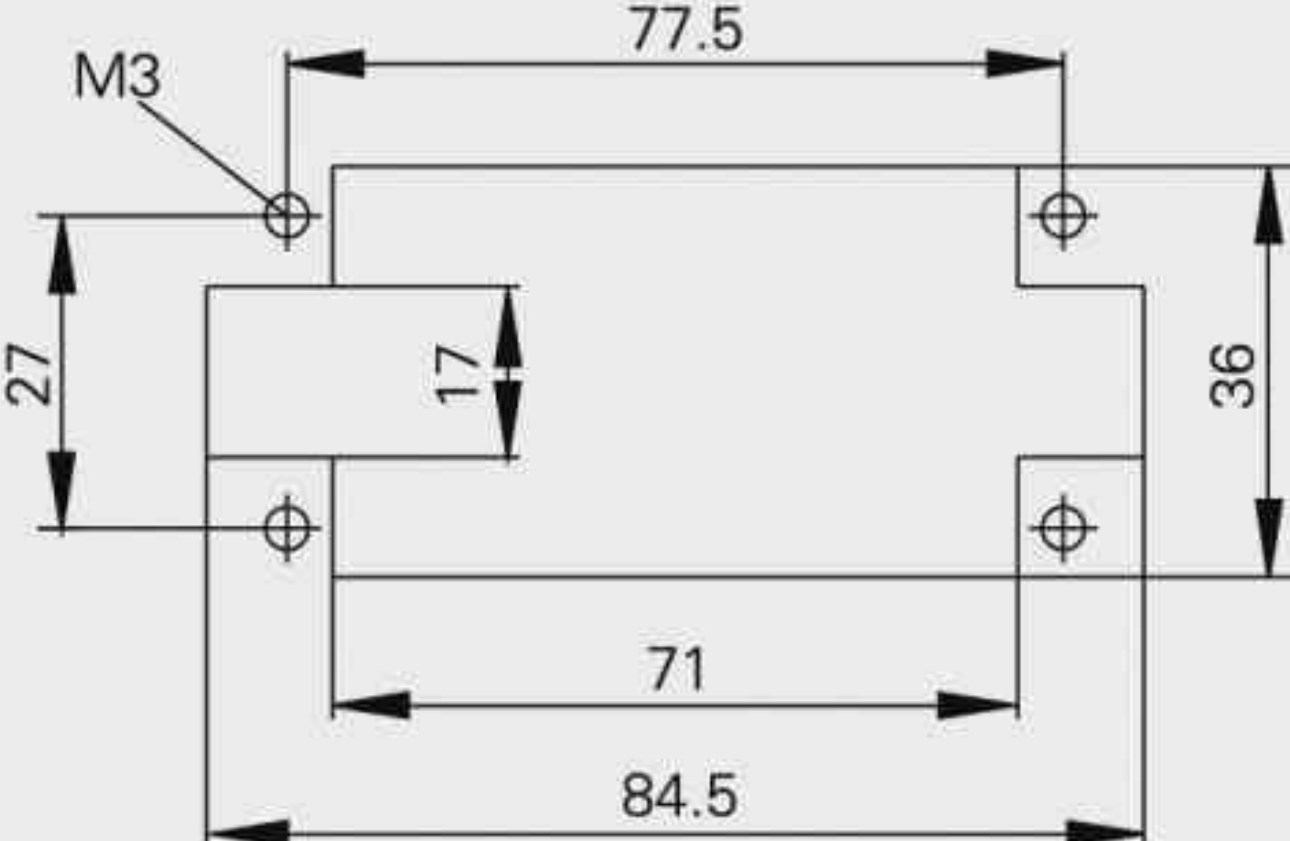
Contacts

Material	Copper alloy
Surface	Hard silver-plated Hard gold-plated
Contact resistance	$\leq 1m \Omega$
Wiring method	Screw connection
Wire gauge	6 mm ² AWG 10
Tightening torque 12-10	1.2Nm



HSB-6+

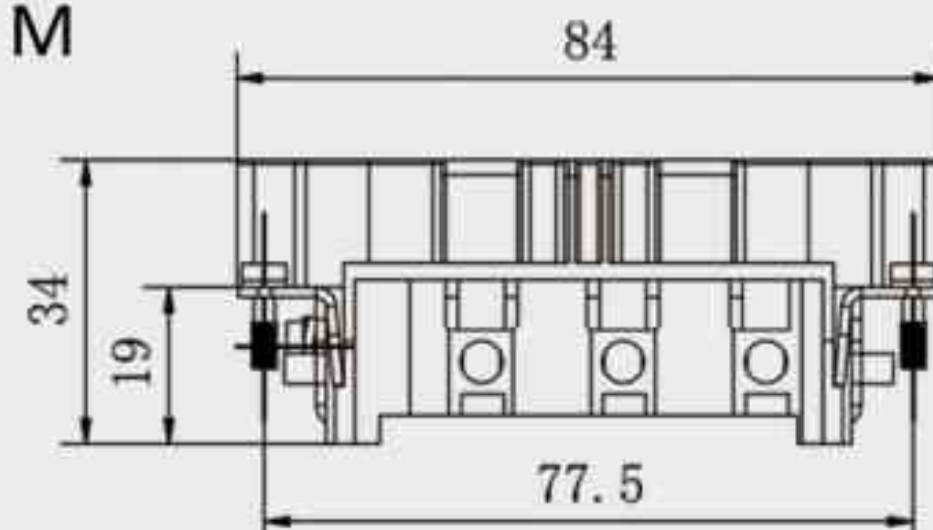
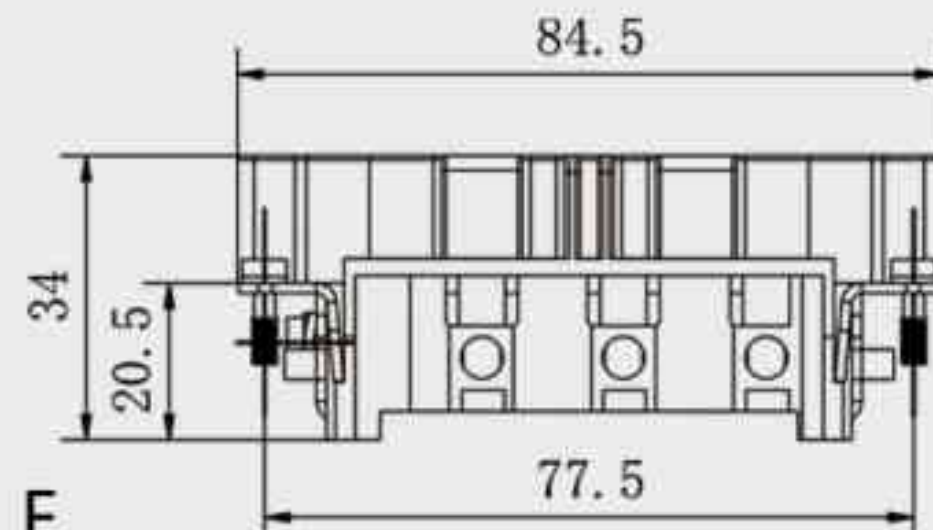
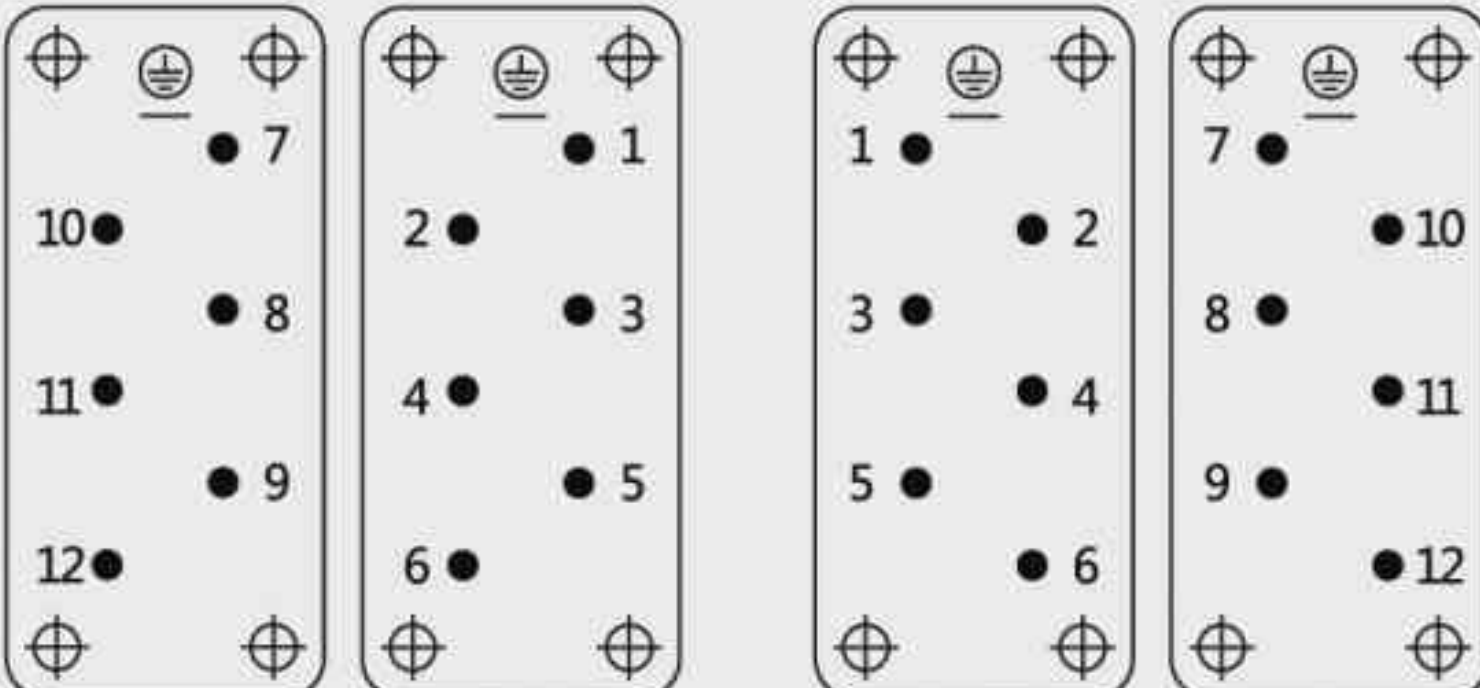
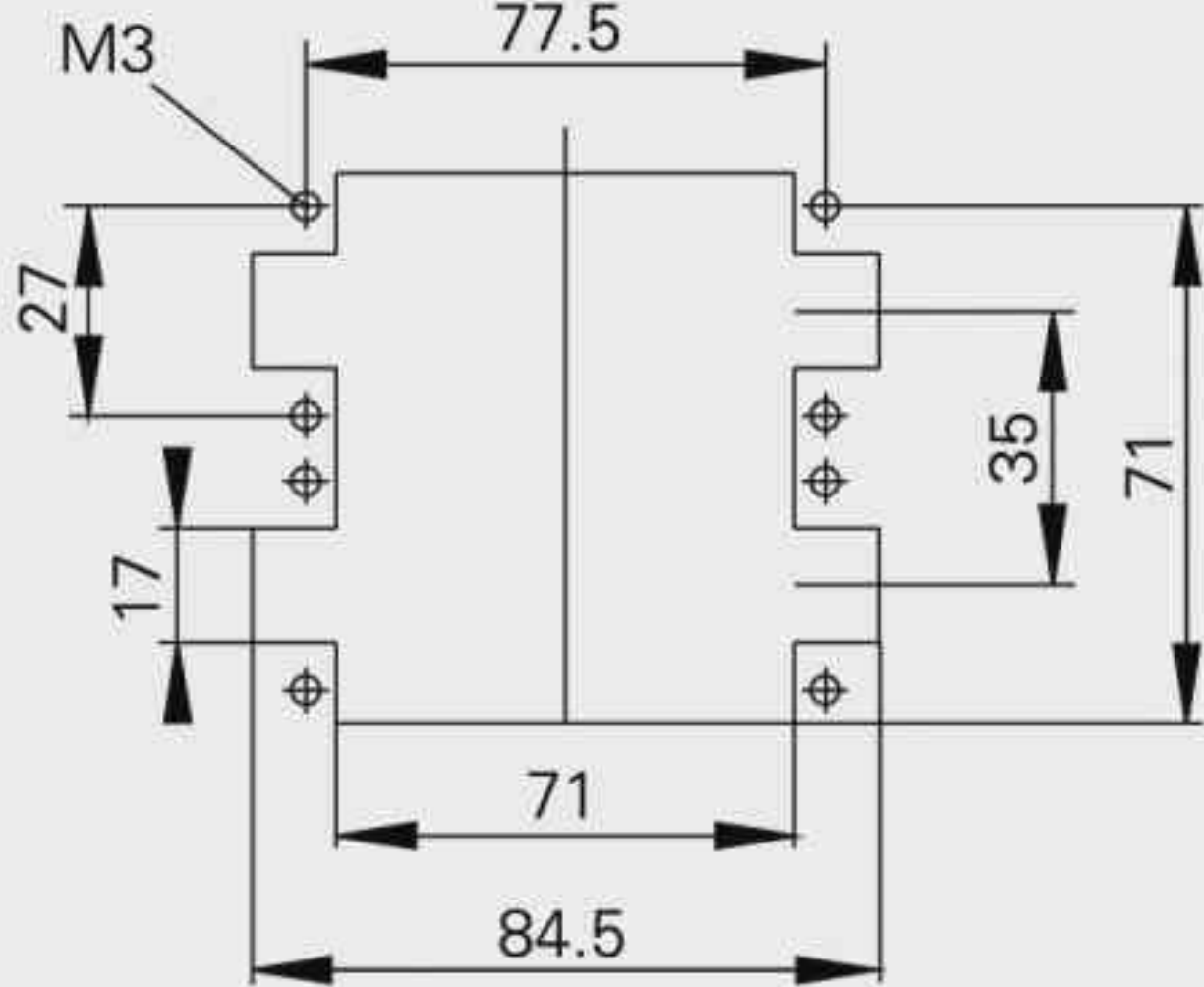
For **H16B**,Hood/Housing Please Refer Page No.171-185

Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection				
	HSB-006-M	3 006 060 10 101		
	HSB-006-F	3 006 060 10 102		
			Maximum distance between inserts 21mm	
				
			Contacts arrangement view from termination side	
				
			Panel cutout drawing	

HSB

HSB-12+

For H32B,Hood/Housing Please Refer Page No. 202-207

Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection				
	HSB-006-M HSB-012-M(7-12)	3 006 060 10 101 3 012 060 10 101		
	HSB-006-F HSB-012-F(7-12)	3 006 060 10 102 3 012 060 10 102	Maximum distance between inserts 21mm	M F 
			Contacts arrangement view from termination side	
			Panel cutout drawing	



HM

Versatile modular connector

HMK-001 Axial Compression-Type Module



1000V 200A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
----------------	--------------------------------

Inesrts		Contacts	
Number of contacts	1	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	200A	Contact resistance	0.2mΩ
-Rated voltage	1000V	For stranded wire according to IEC 60 228Class5	
-Rated impulse voltage	8kV	Axial screw connection	
-Pollution degree	3	-mm ²	25-70mm ²
Rated voltage acc.to UL	600V	-Wire gauge	
Insulation resistance	≥10 ¹⁰ Ω	-AWG	2-0
Material	Polycarbonate	Hex key	SW 5
Limiting temperatures	-40°C...+125°C	-Stripping length	16mm
Flammability acc.to UL 94	V0	-Tightening tourque	
-Mating cycles	≥500	-mm ²	25 35 50 70
		-Nm	8 8 9 10

Axial screw connection

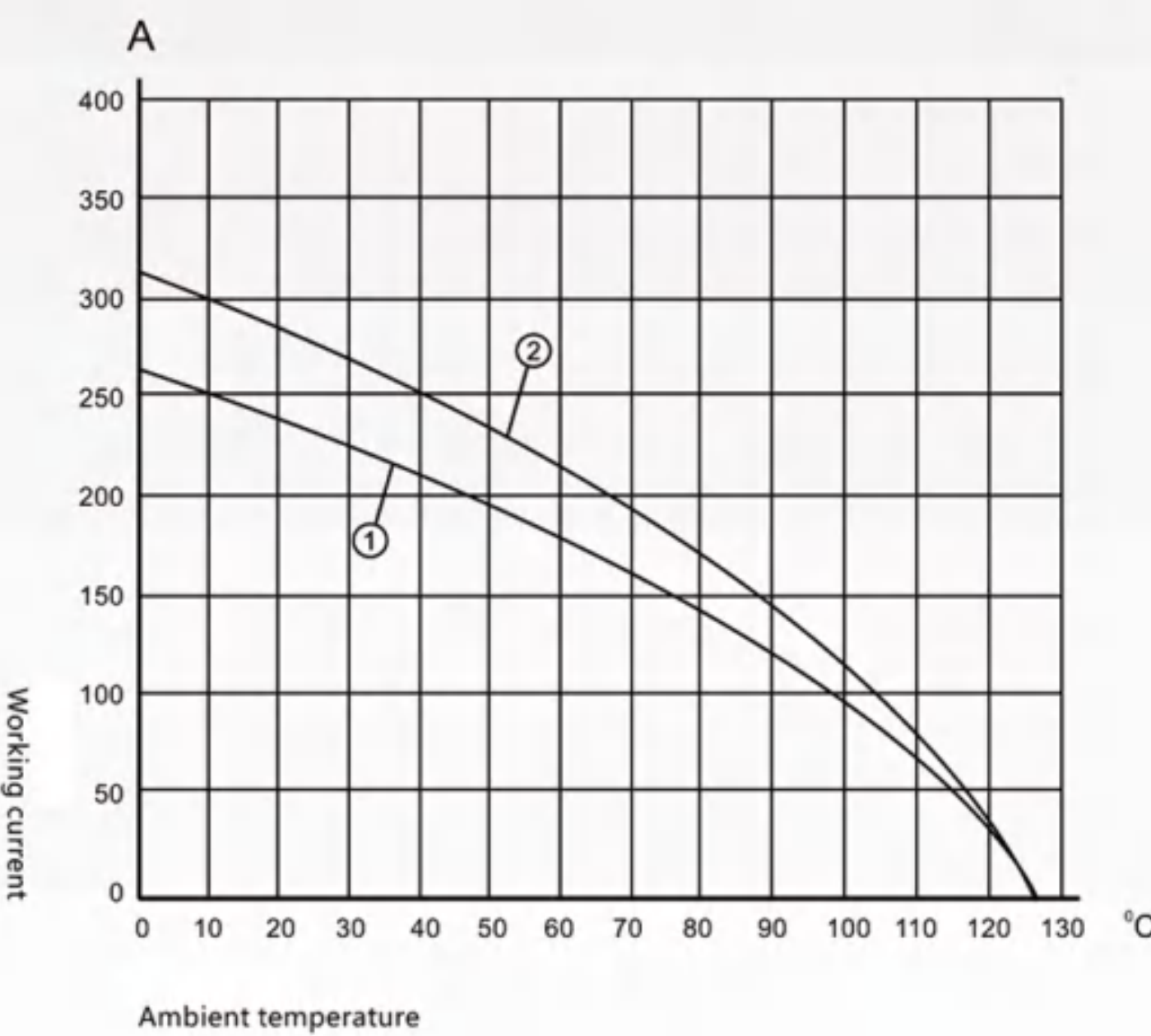


Insert	Wire gauge	Type	Order No.
Male	25-40mm ²	HMK-001.1-M	3 001 070 71 101
Male	40-70mm ²	HMK-001.2-M	3 001 070 72 101
Female	25-40mm ²	HMK-001.1-F	3 001 070 71 102
Female	40-70mm ²	HMK-001.2-F	3 001 070 72 102

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



① H24B hood/housing with 3 modules;wire gauge:50mm²

② H24B hood/housing with 3 modules;wire gauge:70mm²

HMK

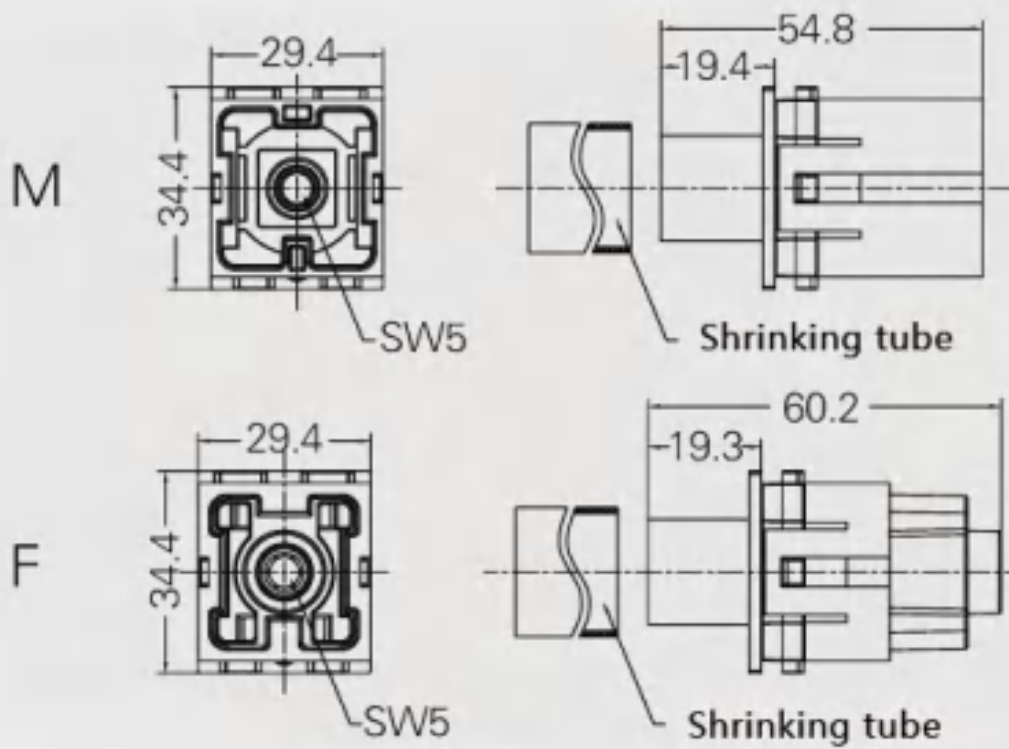
Accessories

Tool

Hex key



Insert	Type	Order No.
For fastening the screw	SW-5	1 608 31 011



1000V 200A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications	
Specifications	DIN EN 60 664 DIN EN 61 984

Inesrts		Contacts	
Number of contacts	1	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	200A	Contact resistance	0.3mΩ
-Rated voltage	1000V	Crimp connection	
-Rated impulse voltage	8kV	-mm ²	25-70mm ²
-Pollution degree	3	-Wire gauge	
Insulation resistance	≥10 ¹⁰ Ω	-Stripping length	22.5mm
Material	Polycarbonate		
Limiting temperatures	-40°C...+125°C		
Flammability acc.to UL 94	V0		
-Mating cycles	≥500		

Crimp connection



Insert	Type	Order No.
Male	HMK-001-MC	3 001 162 11 101
Female	HMK-001-FC	3 001 162 11 102

Crimp contacts

Crimp contacts 200A

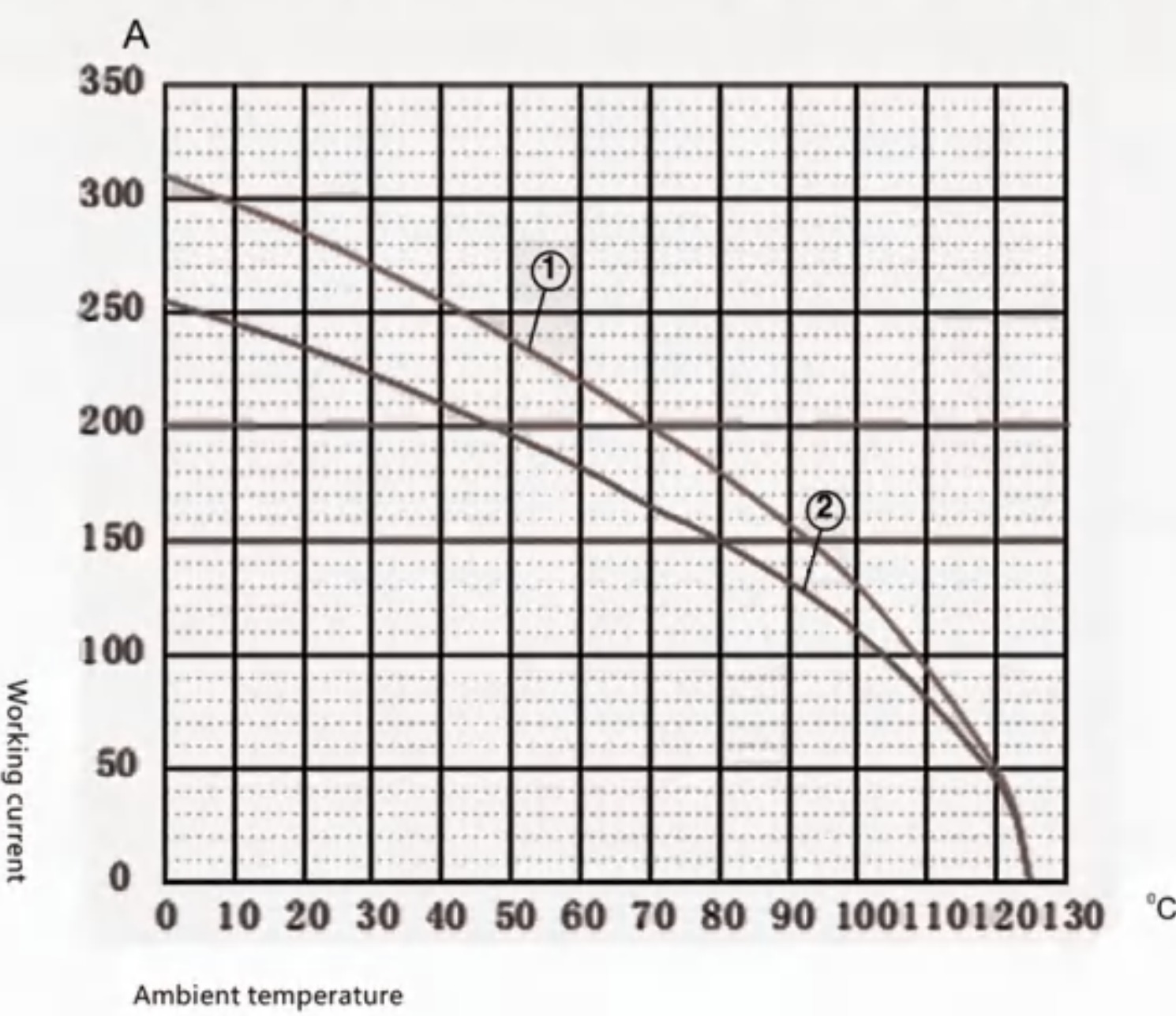
Contact resistance ≤0.3mΩ sliver plated	Male	Order No.	Female	Order No.
	CSM200-25	4 200 110 10 125	CSF200-25	4 200 110 20 125
	CSM200-35	4 200 110 10 135	CSF200-35	4 200 110 20 135
	CSM200-50	4 200 110 10 150	CSF200-50	4 200 110 20 150
	CSM200-70	4 200 110 10 170	CSF200-70	4 200 110 20 170



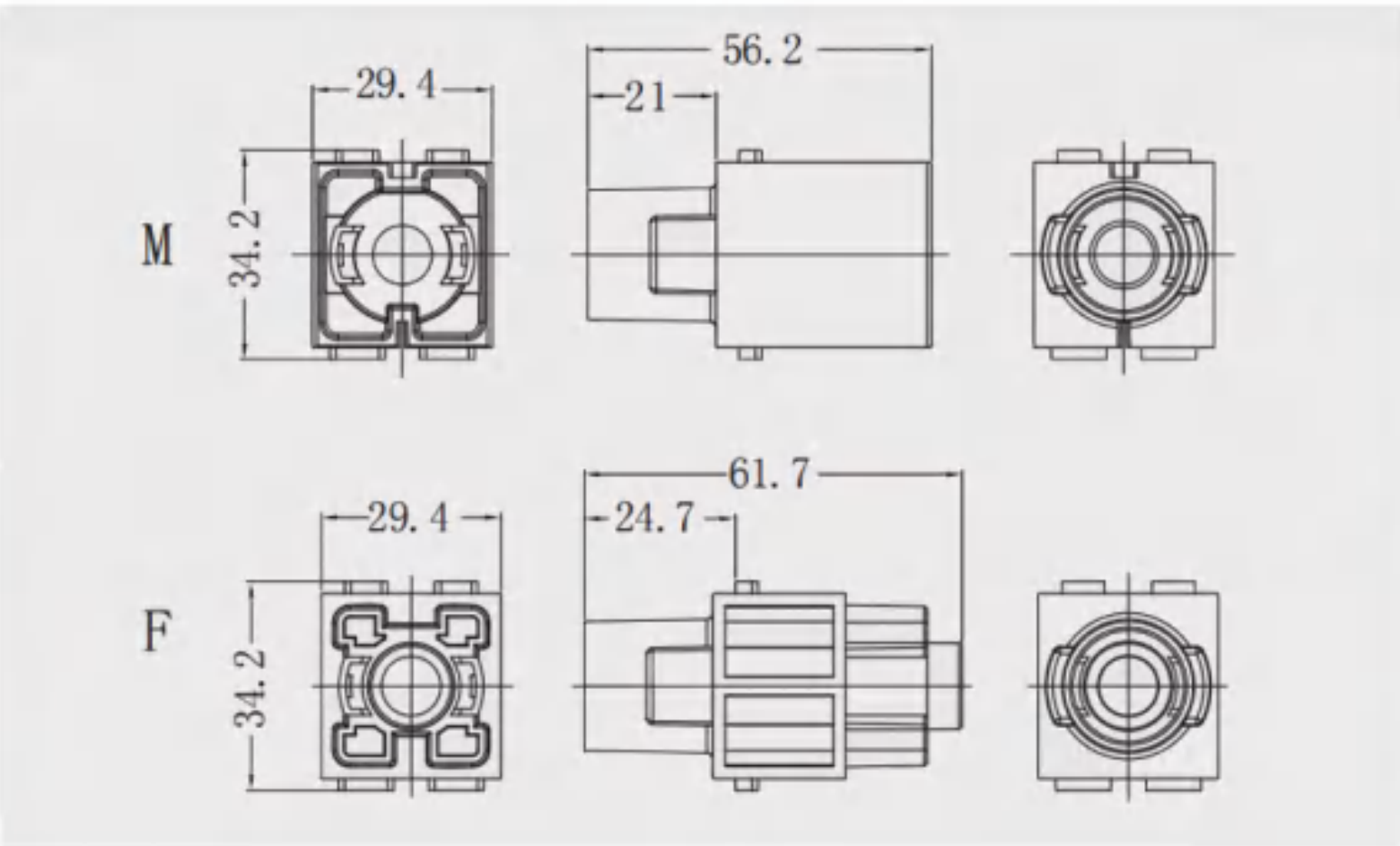
Current carrying capacity

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

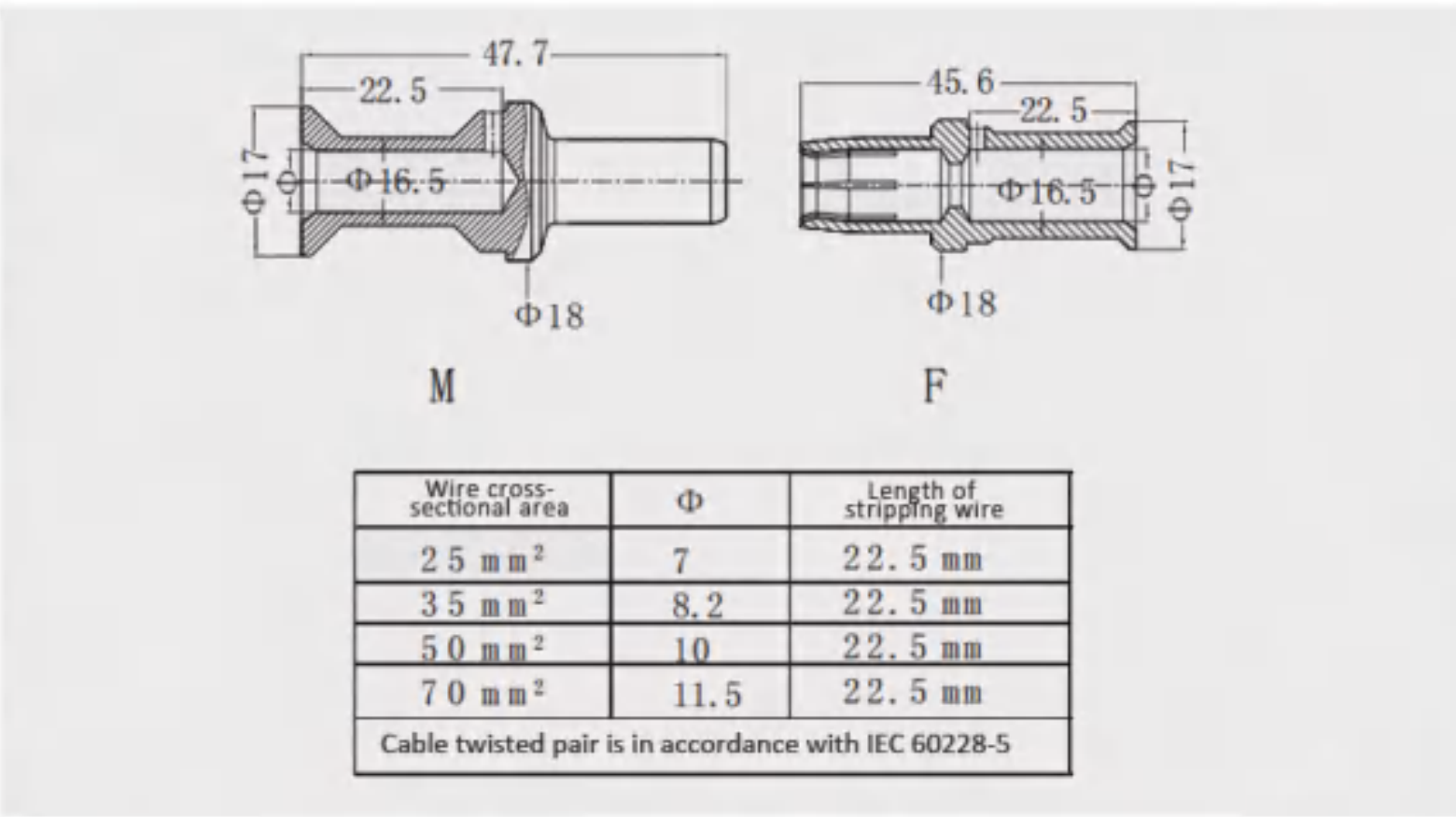
Control and test procedures according to DIN IEC 60512-3



- ① H24B hood/housing with 3 modules; wire gauge: 70mm²
- ② H24B hood/housing with 3 modules; wire gauge: 50mm²



HMK



Wire cross-sectional area	Φ	Length of stripping wire
25 mm ²	7	22.5 mm
35 mm ²	8.2	22.5 mm
50 mm ²	10	22.5 mm
70 mm ²	11.5	22.5 mm

Cable twisted pair is in accordance with IEC 60228-5

HMK-002 Crimp module



1000V 100A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

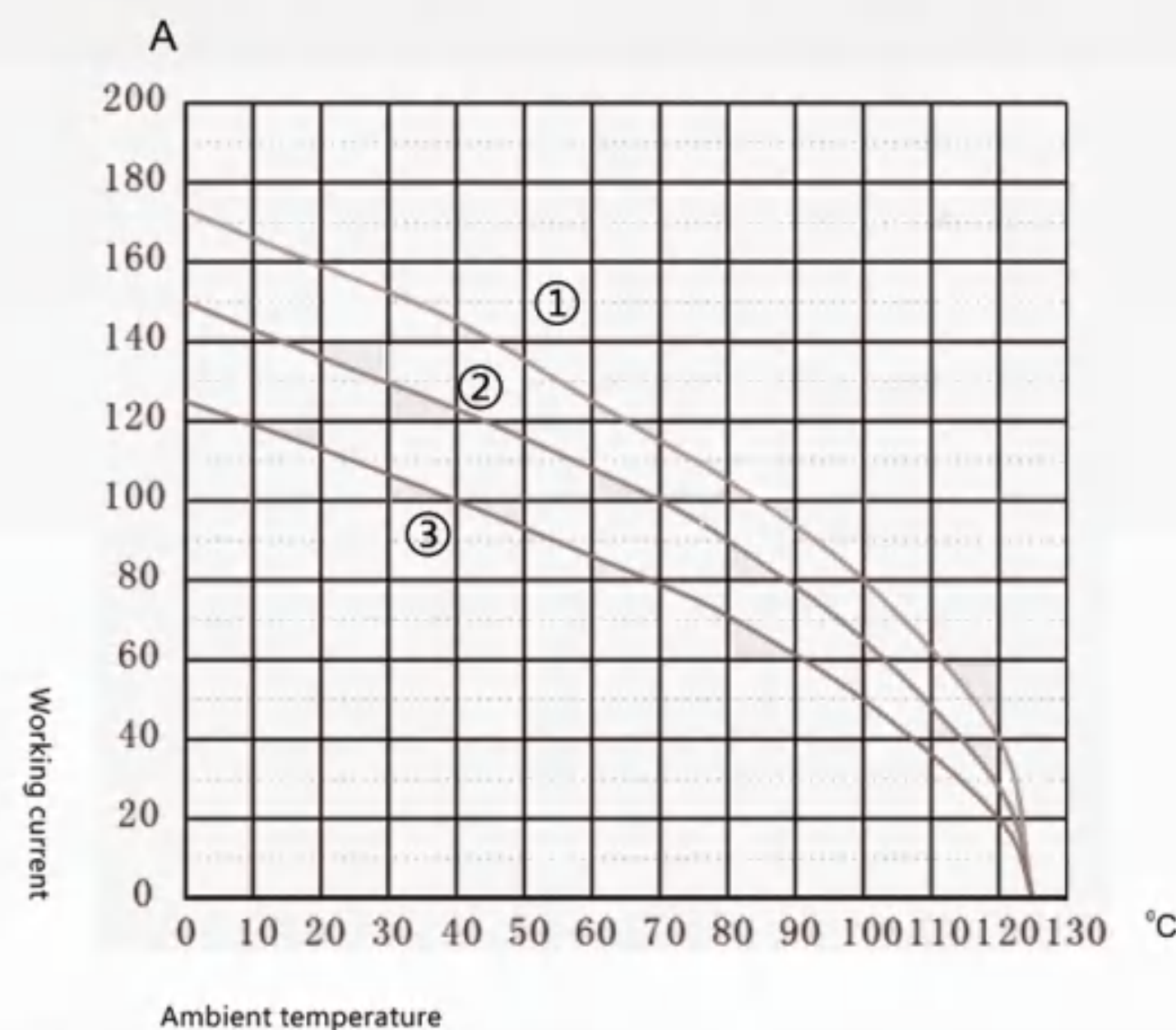
Specifications	DIN EN 60 664 DIN EN 61 984
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Insrts		Contacts	
Number of contacts	1	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	100A	Contact resistance	≤0.3mΩ
-Rated voltage	1000V	Crimp connection	
-Rated impulse voltage	8kV	-mm ²	10-35mm ²
-Pollution degree	3	-Wire gauge	
		-Stripping length	14mm
Insulation resistance	≥10 ¹⁰ Ω		
Material	Polycarbonate		
Limiting temperatures	-40°C...+125°C		
Flammability acc.to UL 94	V0		
-Mating cycles	≥500		

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

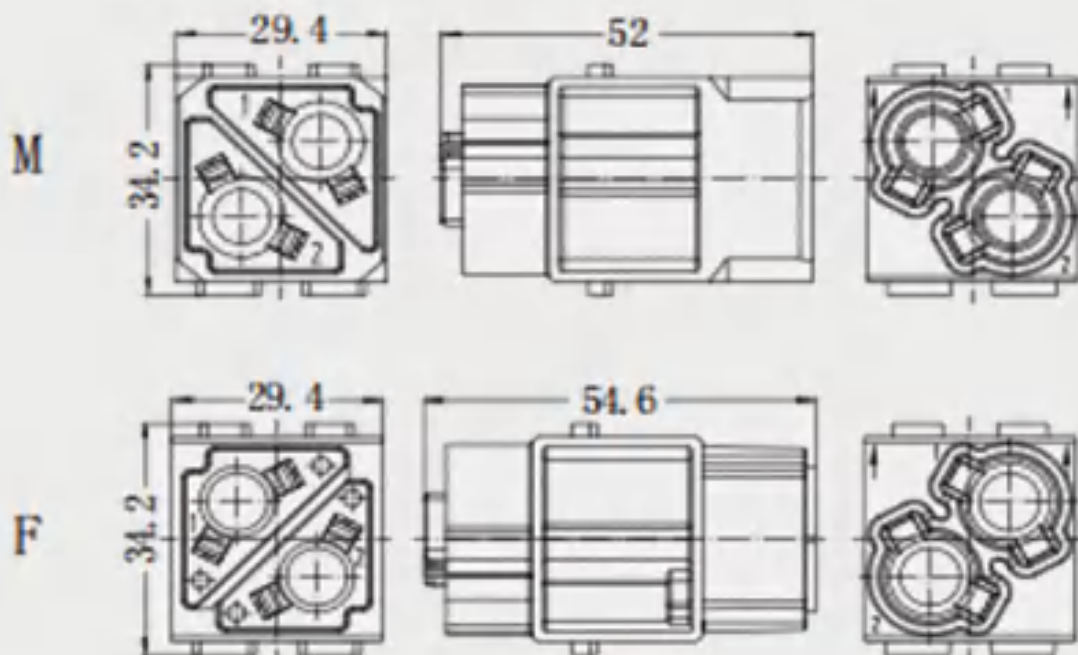


- ① H24B hood/housing with 3 modules;wire gauge:35mm²
- ② H24B hood/housing with 3 modules;wire gauge:25mm²
- ③ H24B hood/housing with 3 modules;wire gauge:16mm²

HMK

Crimp connection

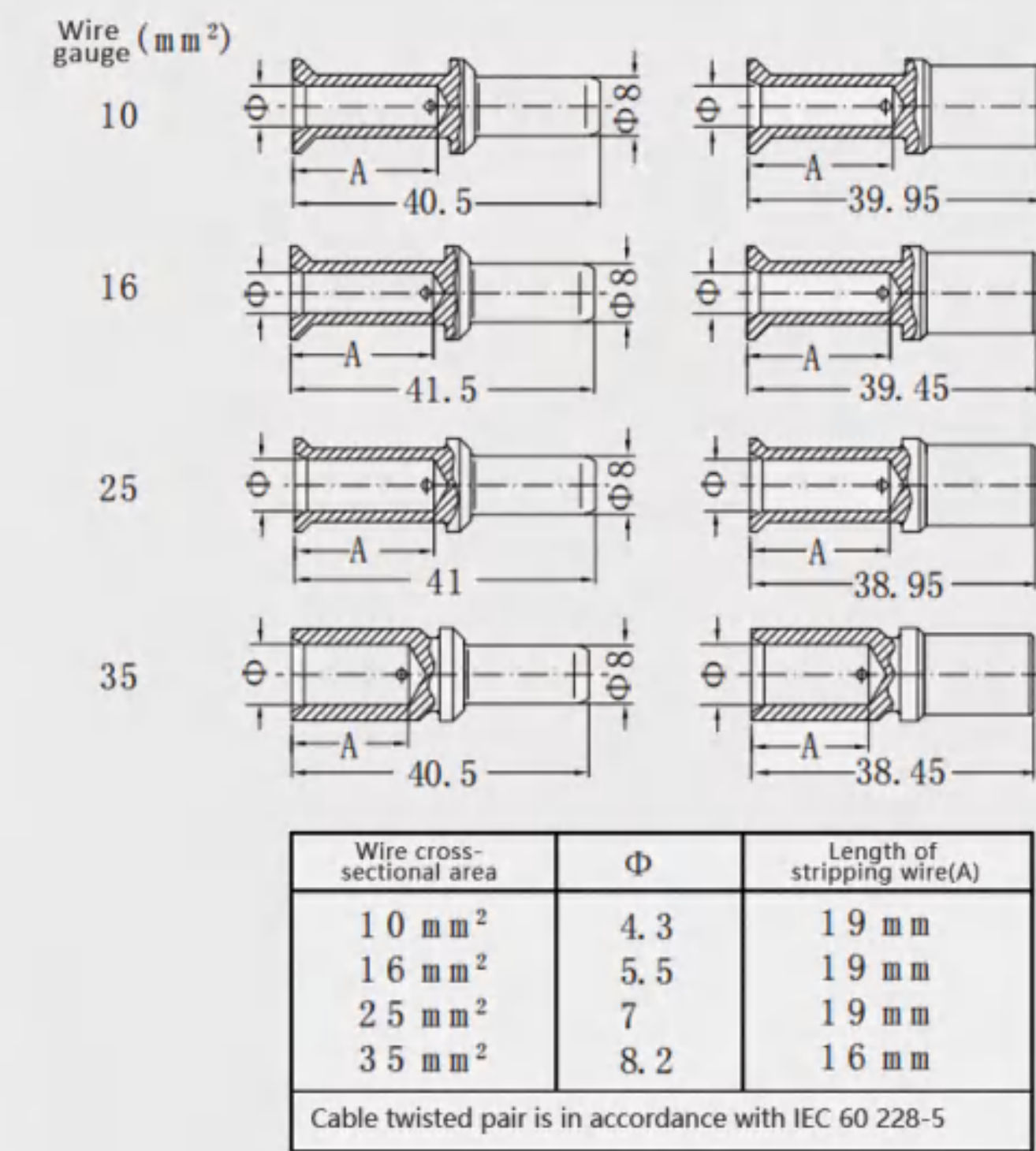
Insert	Type	Order No.
Male	HMK-002-MC	3 002 162 20 101
Female	HMK-002-FC	3 002 162 20 102



Crimp contacts

Crimp contacts 100A

Contact resistance ≤0.3mΩ sliver plated	Male	Order No.	Female	Order No.
	CSM100-10	4 100 110 10 100	CSF100-10	4 100 110 20 100
	CSM100-16	4 100 110 10 160	CSF100-16	4 100 110 20 160
	CSM100-25	4 100 110 10 250	CSF100-25	4 100 110 20 250
	CSM100-35	4 100 110 10 350	CSF100-35	4 100 110 20 350



1000V 100A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications	
Specifications	DIN EN 60 664 DIN EN 61 984

Inesrts		Contacts	
Number of contacts 2		Material	Copper alloy
Electrical dataacc.to EN61 984		Surface	Hard-silver plated
-Rated current	100A	Contact resistance	0.3mΩ
-Rated voltage	1000V	For stranded wire according to IEC 60 228 Class5	
-Rated impulse voltage	8kV	Axial screw connection	
-Pollution degree	3	-mm ² -Wire gauge	10-35mm ²
Rated voltage acc.to UL	600V	-AWG	6-2
Insulation resistance	≥10 ¹⁰ Ω	Hex key	SW 4
Material	Polycarbonate	-Stripping length	13mm
Limiting temperatures	-40°C...+125°C	-Tightening tourque	
Flammability acc.to UL 94	V0	-mm ²	10 16 25 35
-Mating cycles	≥500	-Nm	6 6 7 8

Axial screw connection

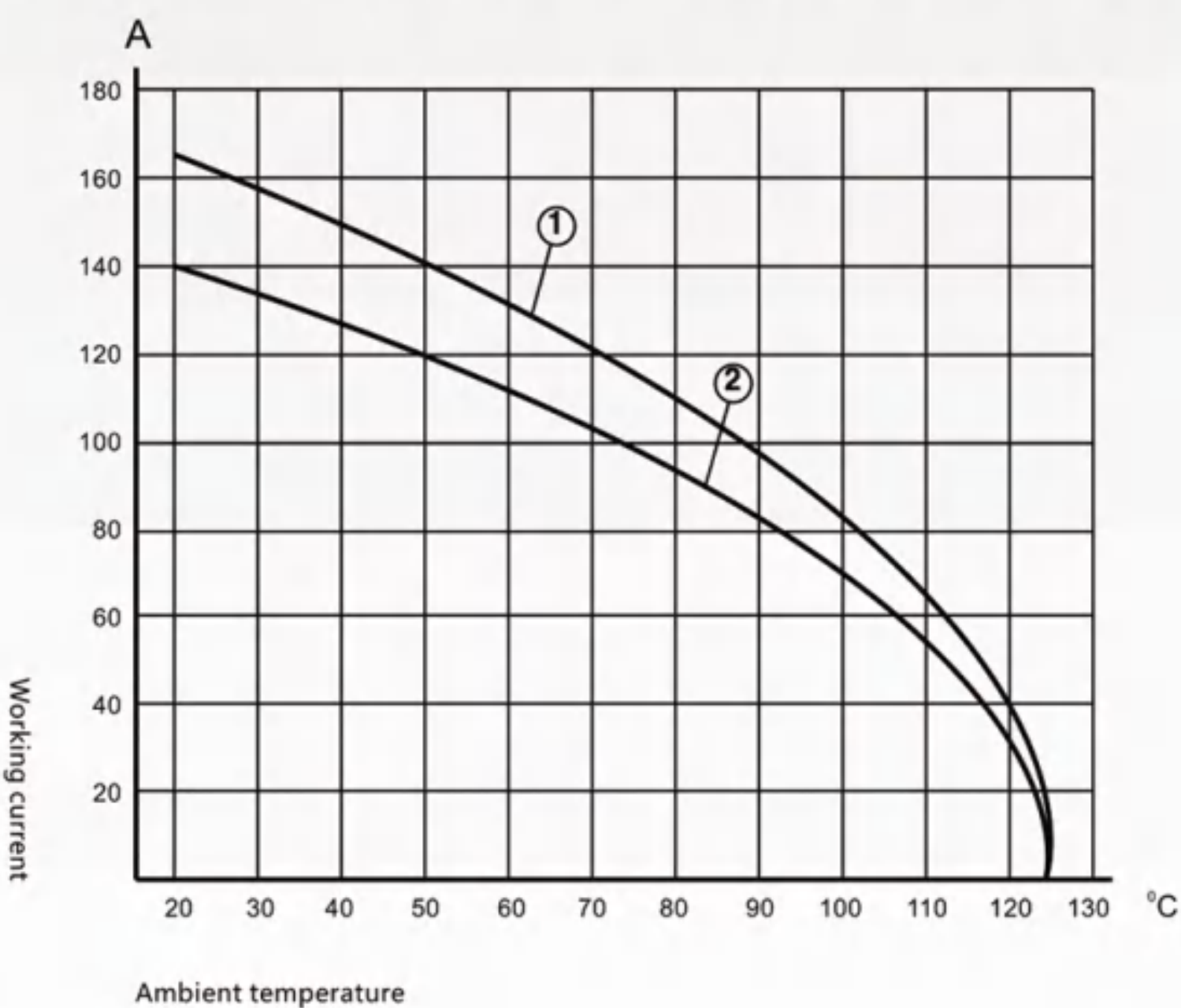


Insert	Wire gauge	Type	Order No.
Male	10-25mm ²	HMK-002.1-M	3 002 070 71 101
Male	16-35mm ²	HMK-002.2-M	3 002 070 72 101
Female	10-25mm ²	HMK-002.1-F	3 002 070 71 102
Female	16-35mm ²	HMK-002.2-F	3 002 070 72 102

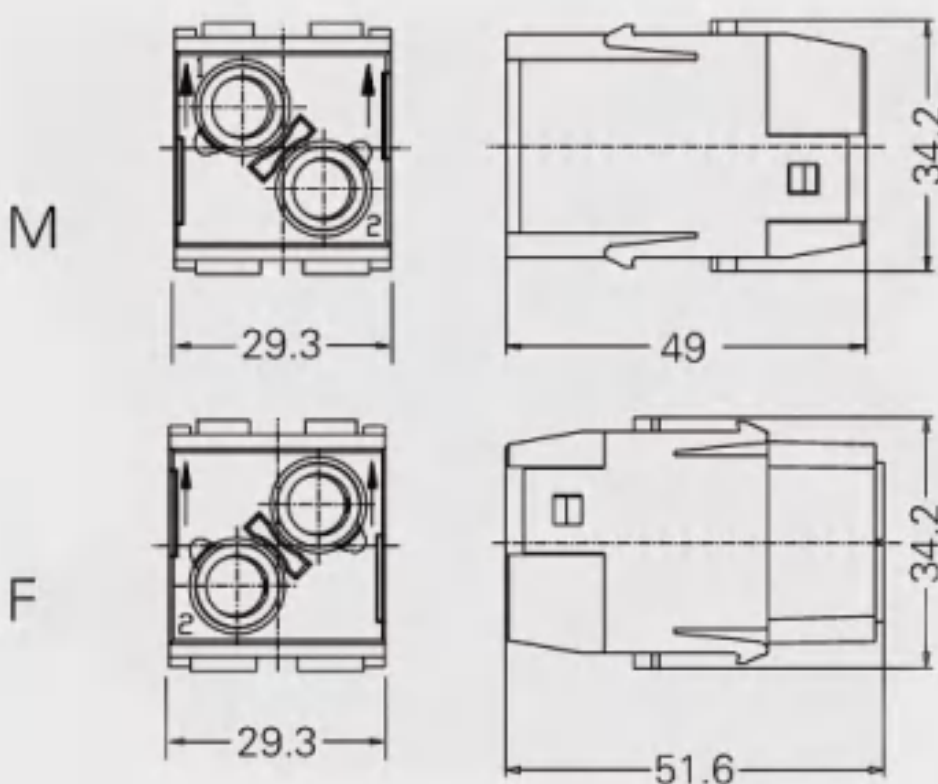
Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



- ① H24B hood/housing with 3 modules;wire gauge:35mm²
- ② H24B hood/housing with 3 modules;wire gauge:25mm²



HMK

Accessories

Tool

Hex key	Insert	Type	Order No.
	For fastening the screw	SW-4	1 608 31 005



1000V 70A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
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Inesrts		Contacts	
Number of contacts	2	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	70A	Contact resistance	0.5mΩ
-Rated voltage	1000V	For stranded wire according to IEC 60 228 Class5	
-Rated impulse voltage	8kV	Axial screw connection	
-Pollution degree	3	-mm ²	
Rated voltage acc,to UL	600V	-Wire gauge	6-22mm ²
Insulation resistance	≥10 ¹⁰ Ω	-AWG	8-4
Material	Polycarbonate	Hex key	SW 2.5
Limiting temperatures	-40°C...+125°C	-Stripping length	6 10 16 22 11 ⁺¹ 11 ⁺¹ 11 ⁺¹ 12.5 ⁺¹
Flammability acc.to UL 94	V0	-Tightening tourque	
-Mating cycles	≥500	-mm ²	6 10 16 22
		-Nm	2 3 4 5

Axial screw connection

HMK



Insert	Wire gauge	Type	Order No.
Male	6-16mm ²	HMK70-002.1-M	3 002 077 71 101
Male	14-22mm ²	HMK70-002.2-M	3 002 077 72 101
Female	6-16mm ²	HMK70-002.1-F	3 002 077 71 102
Female	14-22mm ²	HMK70-002.2-F	3 002 077 72 102

Accessories

Tool

Hex key

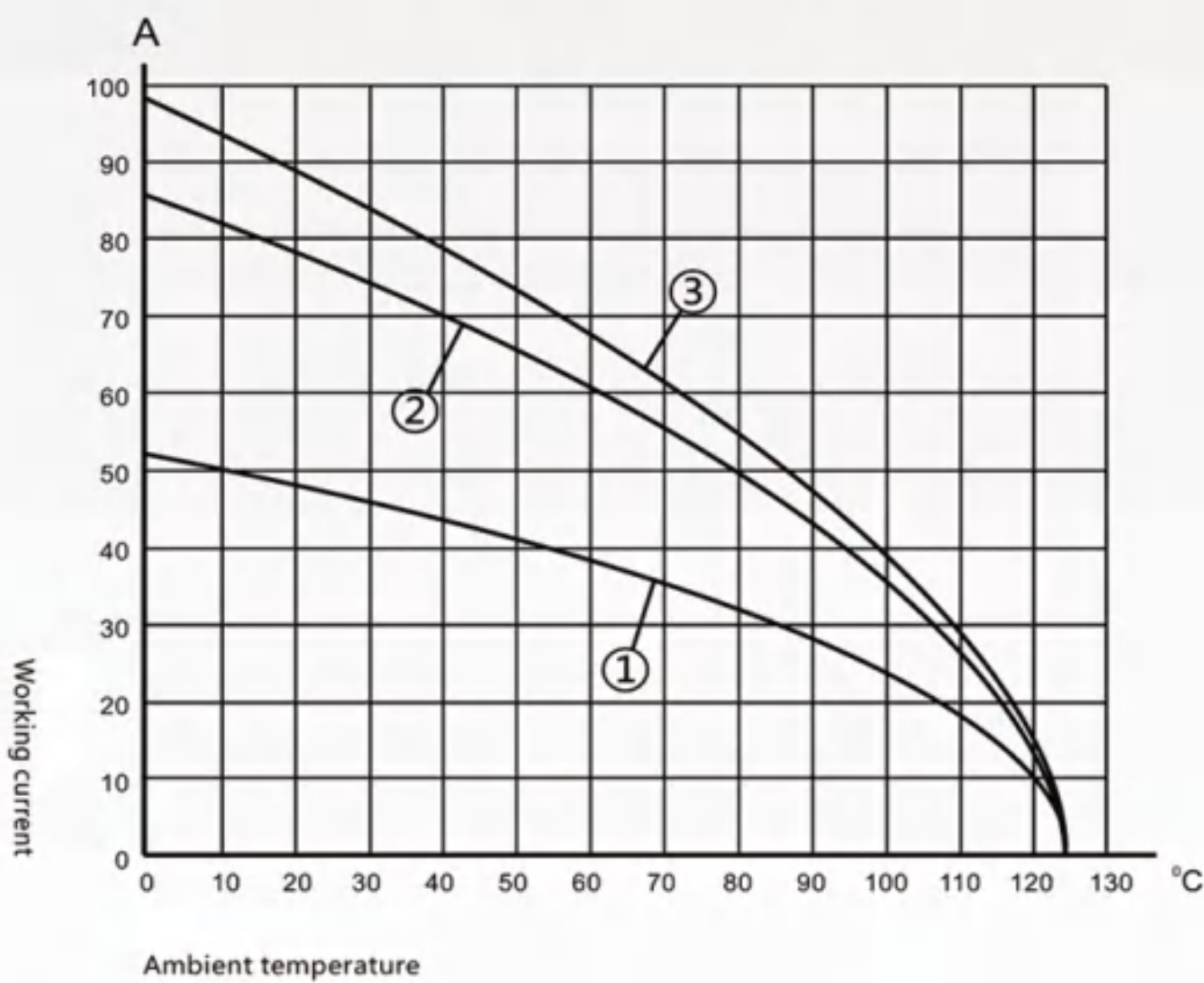


Insert	Type	Order No.
For fastening the screw	SW-2.5	1 608 31 012

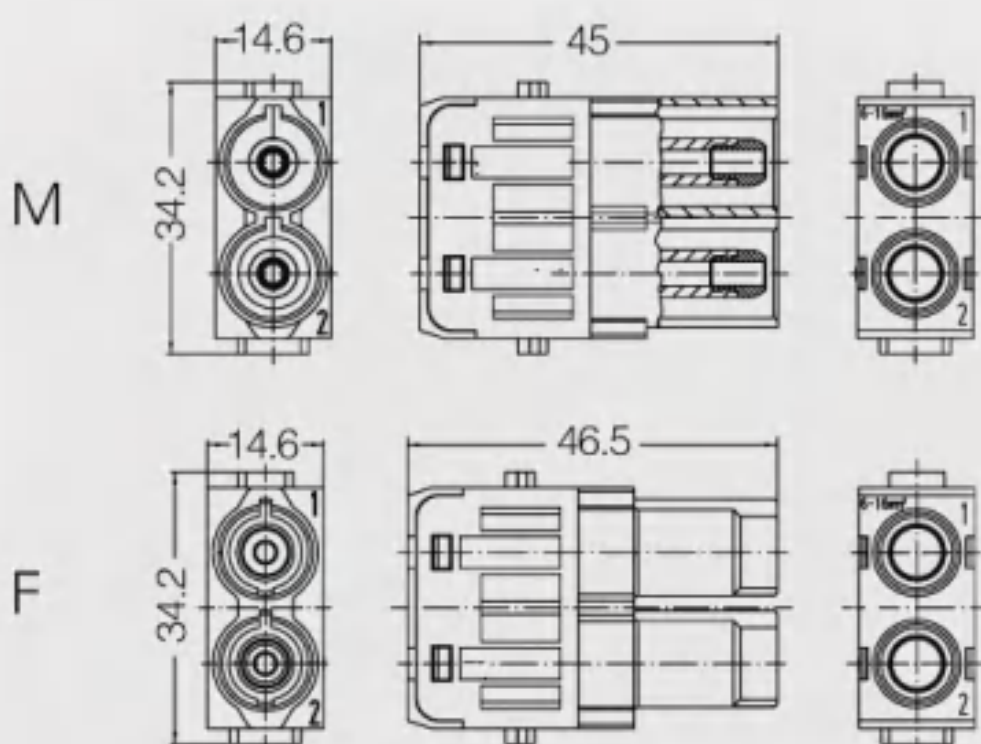
Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



- ① H24B hood/housing with 6 modules;wire gauge:6mm²
- ② H24B hood/housing with 6 modules;wire gauge:16mm²
- ③ H24B hood/housing with 6 modules;wire gauge:22mm²



HMK70-002 Crimp module



1000V 70A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
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Inesrts		Contacts	
Number of contacts	2	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	70A	Contact resistance	≤0.5mΩ
-Rated voltage	1000V	Crimp connection	
-Rated impulse voltage	8kV	-mm ²	10-25mm ²
-Pollution degree	3	-Wire gauge	
		-AWG	7-4
Rated voltage acc.to UL	600V		
Insulation resistance	≥10 ¹⁰ Ω		
Material	Polycarbonate		
Limiting temperatures	-40°C...+125°C		
Flammability acc.to UL 94	V0		
-Mating cycles	≥500		

Crimp connection Order crimp contacts separately

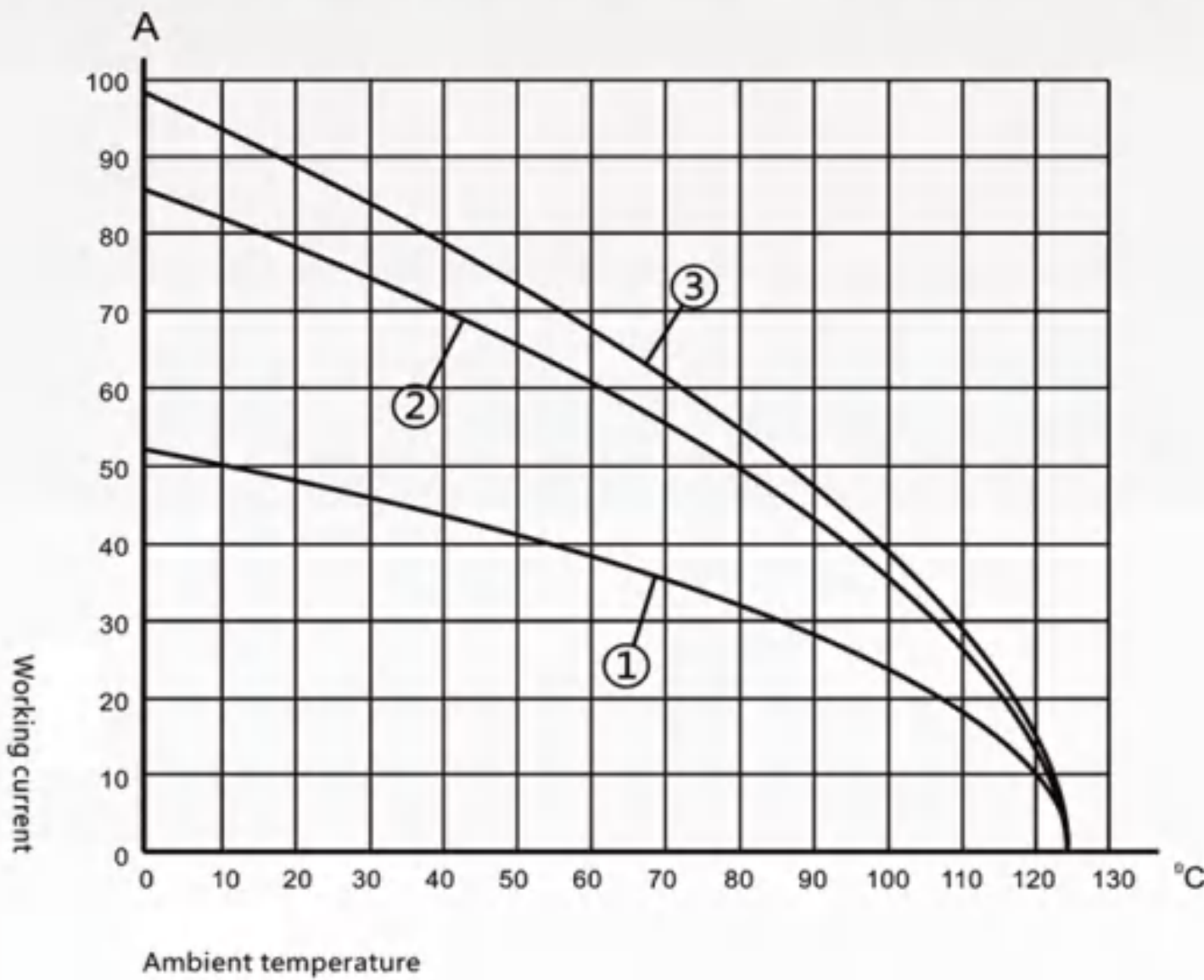


Insert	Wire gauge	Type	Order No.
Male	10-25mm ²	HMK70-002-MC	3 002 077 20 101
Female	10-25mm ²	HMK70-002-FC	3 002 077 20 102

Current carrying capacity

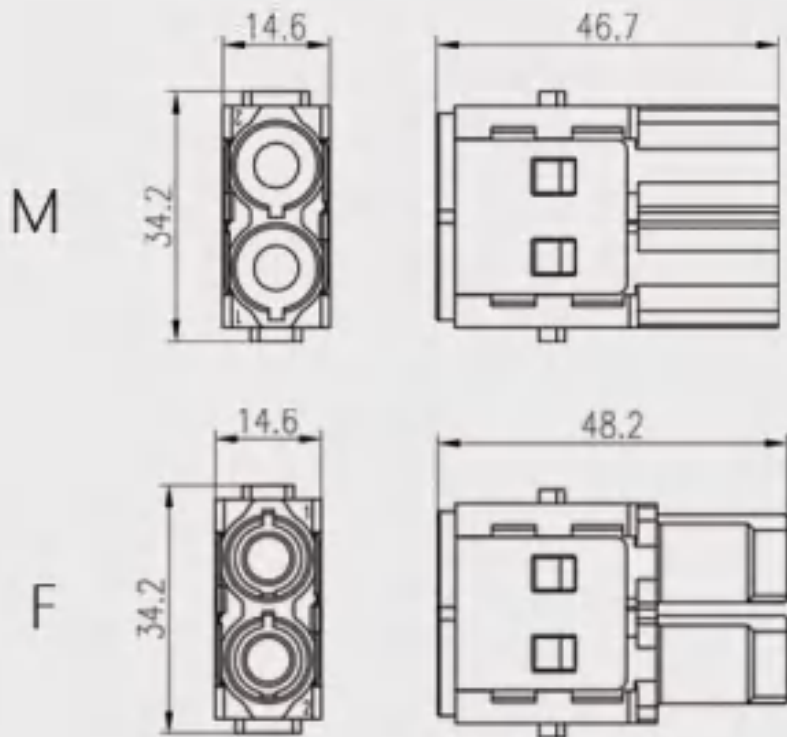
The current carrying is limited by maximun temperature of materials for inserts and contacts including terminals.

Control and test procedures according to DIN IEC 60512-3



- ① H24B hood/housing with 6 modules;wire gauge:10mm²
- ② H24B hood/housing with 6 modules;wire gauge:16mm²
- ③ H24B hood/housing with 6 modules;wire gauge:25mm²

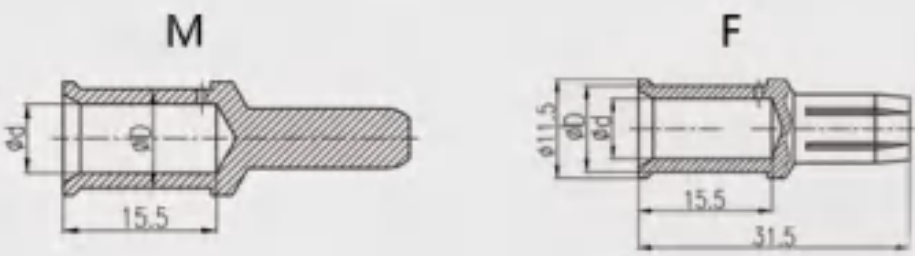
HMK



Crimp contacts

Crimp contacts 70A

Contact resistance ≤0.5mΩ silver plated	Male	Order No.	Female	Order No.
	CSM70-6	4 070 110 10 106	CSF70-6	4 070 110 20 106
	CSM70-10	4 070 110 10 110	CSF70-10	4 070 110 20 110
	CSM70-16	4 070 110 10 116	CSF70-16	4 070 110 20 116
	CSM70-25	4 070 110 10 125	CSF70-25	4 070 110 20 125



Wire cross-sectional area	Φ	Length of stripping wire
6 mm ²	3.5	15.5 mm
10 mm ²	4.3	15.5 mm
16mm ²	5.5	15.5 mm
25 mm ²	7	15.5 mm

Cable twisted pair is in accordance with IEC 60228-5

Accessories

Tool
Crimping tool

Wire gauge	Designation	Order No.
10-25 mm ²	WFT-LY03	5 000 100 00 003



Contact removal tool

Wire gauge	Designation	Order No.
70A Terminal	WFT-HM02	6 000 79 107



1000V 40A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
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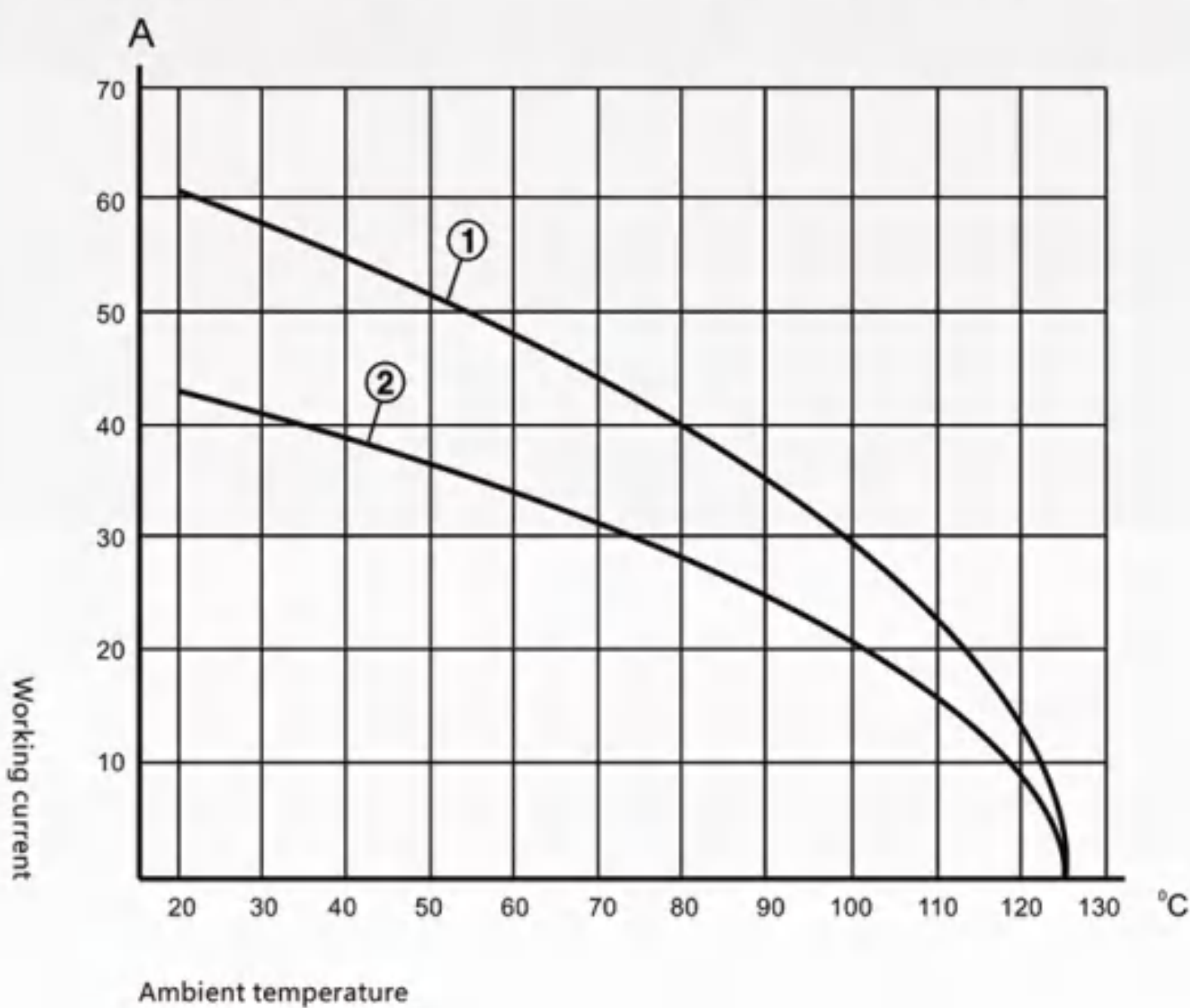
Inesrts		Contacts	
Number of contacts	2	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	40A	Contact resistance	≤0.3mΩ
-Rated voltage	1000V	Crimp connection	
-Rated impulse voltage	8kV	-mm ²	1.5-10mm ²
-Pollution degree	3	-Wire gauge	
		-AWG	16-8
Insulation resistance	≥10 ¹⁰ Ω		
Material	Polycarbonate		
Limiting temperatures	-40°C...+125°C		
Flammability acc.to UL 94	V0		
-Mating cycles	≥500		

Crimp connection Order crimp contacts separately

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

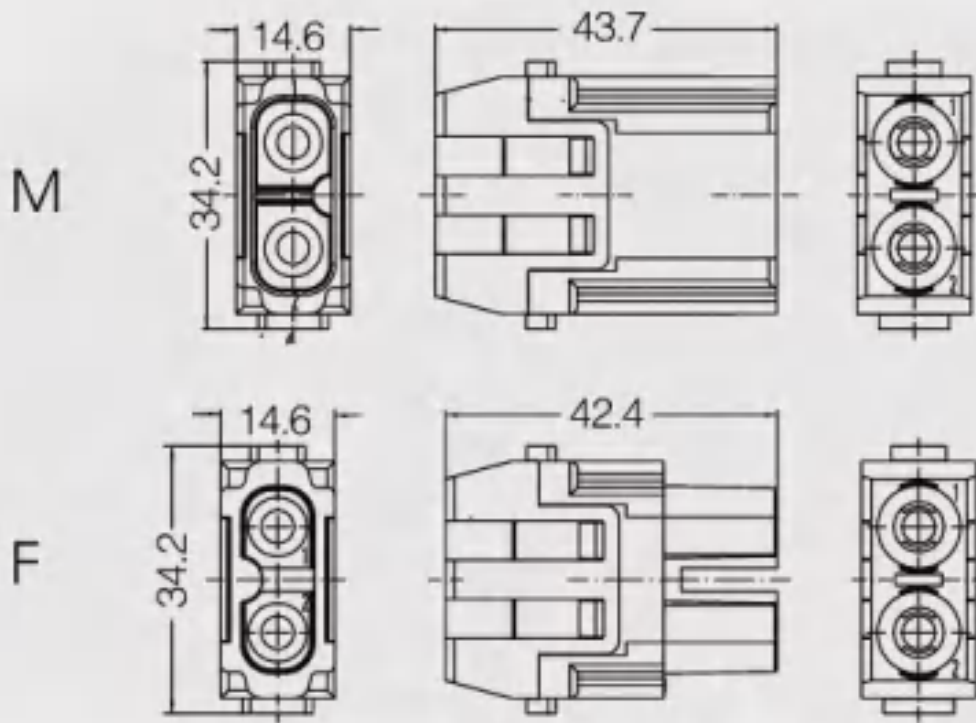


- ① H24B hood/housing with 3 modules;wire gauge:10mm²
- ② H24B hood/housing with 3 modules;wire gauge:6mm²

HMK



Insert	Type	Order No.
Male	HMK40-002-MC	3 002 074 20 101
Female	HMK40-002-FC	3 002 074 20 102



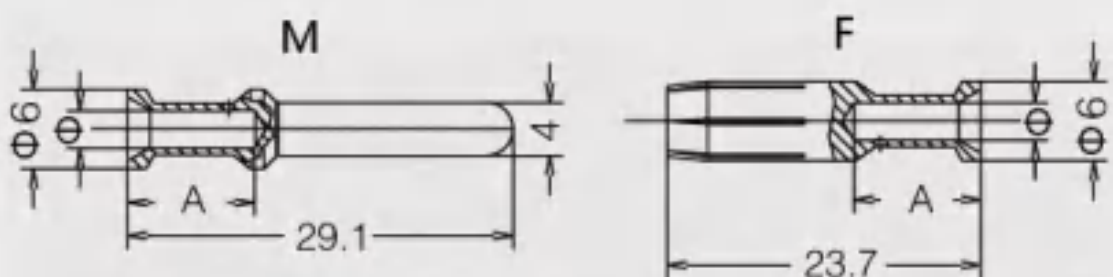
Crimp contacts

Crimp contacts 40A

Contact resistance ≤0.3mΩ
silver plated



	Male	Order No.	Female	Order No.
	CMM-1.5	4 040 110 10 150	CMF-1.5	4 040 110 20 150
	CMM-2.5	4 040 110 10 250	CMF-2.5	4 040 110 20 250
	CMM-4.0	4 040 110 10 400	CMF-4.0	4 040 110 20 400
	CMM-6.0	4 040 110 10 600	CMF-6.0	4 040 110 20 600
	CMM-10.0	4 040 110 10 110	CMF-10.0	4 040 110 20 110



Wire guaga		Φ	Strip length
1.5 mm ²	AWG 16	1.75	9 mm
2.5mm ²	AWG 14	2.25	9 mm
4 mm ²	AWG 12	2.85	9.6 mm
6 mm ²	AWG 10	3.5	9.6 mm
10 mm ²	AWG 8	4.3	15 mm

The stripping length A = 15 mm is used for cables > 5 mm.
The stripping length A = 18mm is used for cables ≥ 6.4 mm.

Accessories

Tool
Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001
4-10mm ²	WFT-LY02	5 000 100 00 002

Application	Designation	Order No.
40A Terminal	WFT-HM01	5 000 200 00 001

HMK40-002 Axial-Type Module



1000V 40A
Inestrs



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications	
Specifications	DIN EN 60 664 DIN EN 61 984

Inestrs		Contacts	
Number of contacts	2	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	40A	Contact resistance	1mΩ
-Rated voltage	1000V	Axial screw connection	
-Rated impulse voltage	8kV	-mm²	2.5-10mm²
-Pollution degree	3	-Wire gauge	
Rated voltage acc.to UL/CSA	600V	-AWG	14-8
Insuiation resistance	≥10¹⁰Ω	Hex key	SW2
Material	Polycarbonate	-Stripping length	
Limiting temperatures	-40°C...+125°C	-mm²	2.5 4 6 10
Flammability acc.to UL 94	V0	-mm	5 ⁺¹ 5 ⁺¹ 8 ⁺¹ 11 ⁺¹
-Mating cycles	≥500	-Tightening tourque	
Crimp connection	Order crimp contacte separately	-mm²	2.5 4 6 10
		-Nm	1.5 1.5 2 2



Insert	Wire gauge	Type	Order No.
Male	2.5-8mm²	HMK40-002.1-M	3 004 074 71 101
Male	6-10mm²	HMK40-002.2-M	3 004 074 72 101
Female	2.5-8mm²	HMK40-002.1-F	3 004 074 71 102
Female	6-10mm²	HMK40-002.2-F	3 004 074 72 102

Accessories

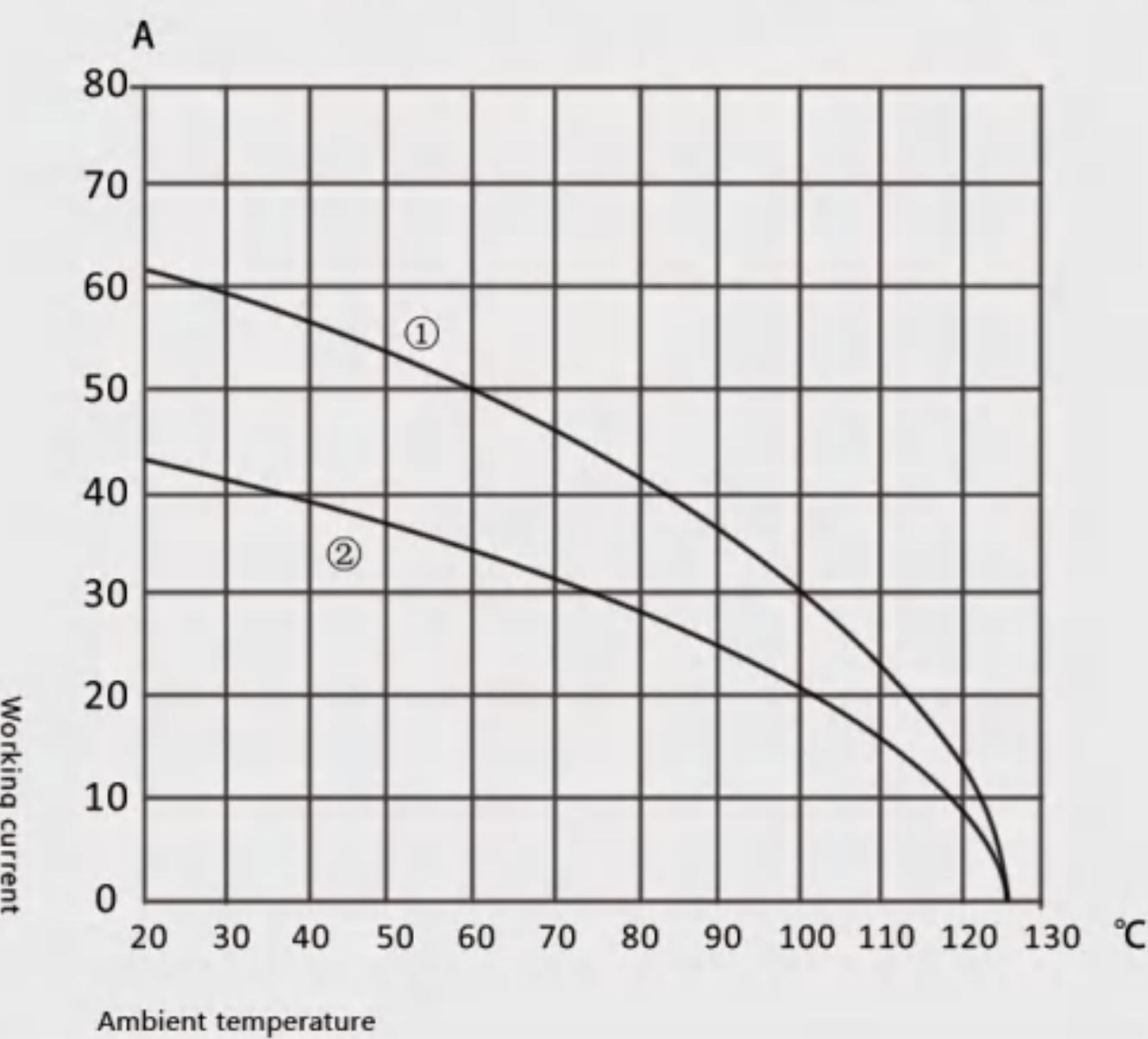
Hex key	Insert	Type	Order No.
	For fastening the screw	SW-2	1 608 31 012



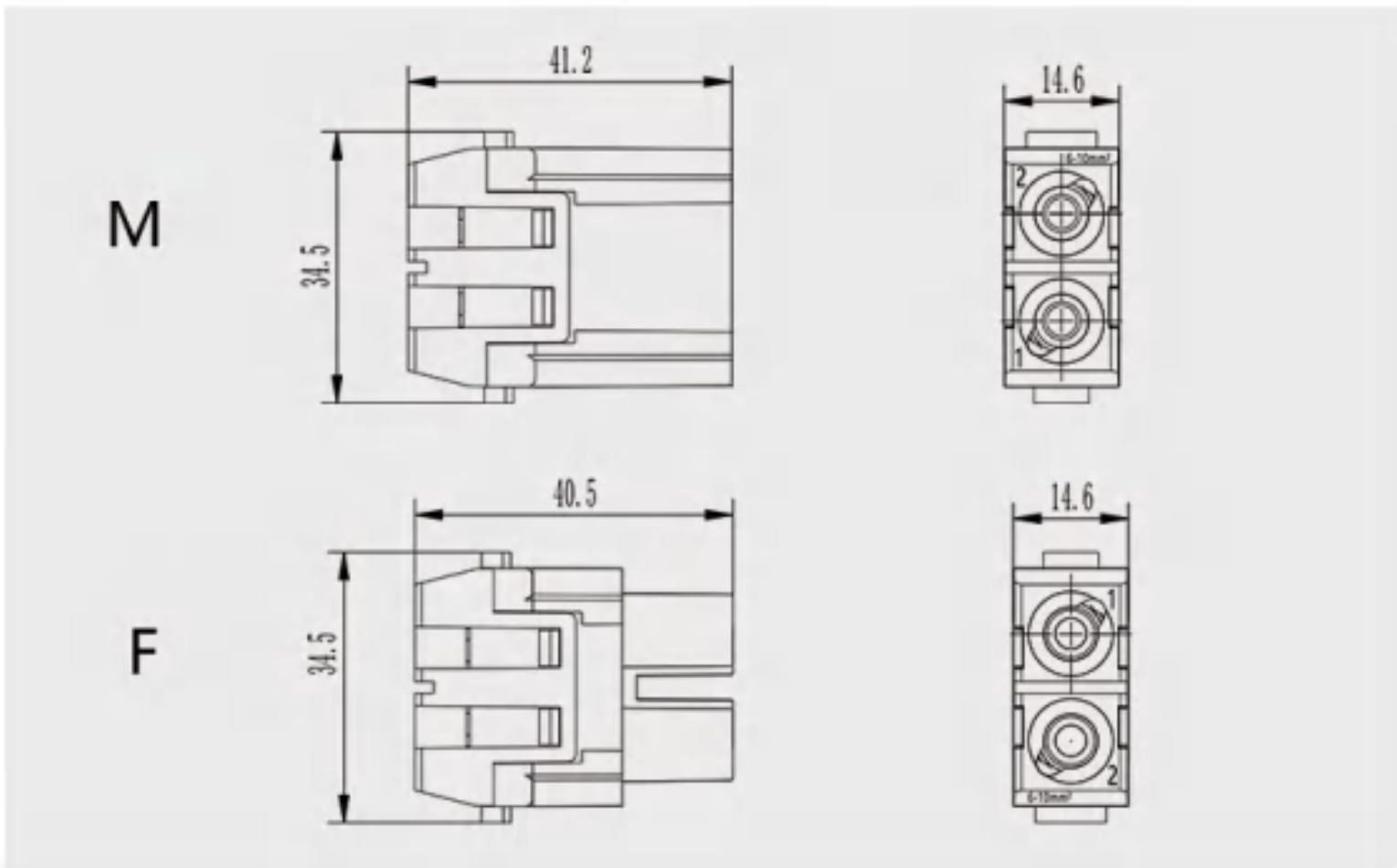
Current carrying capacity

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

Control and test procedures according to DIN EN 60512-5



- ① H24B hood/housing with 6 modules;wire gauge: 10 mm²
- ② H24B hood/housing with 6 modules;wire gauge: 6 mm²



HMK

830V 40A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

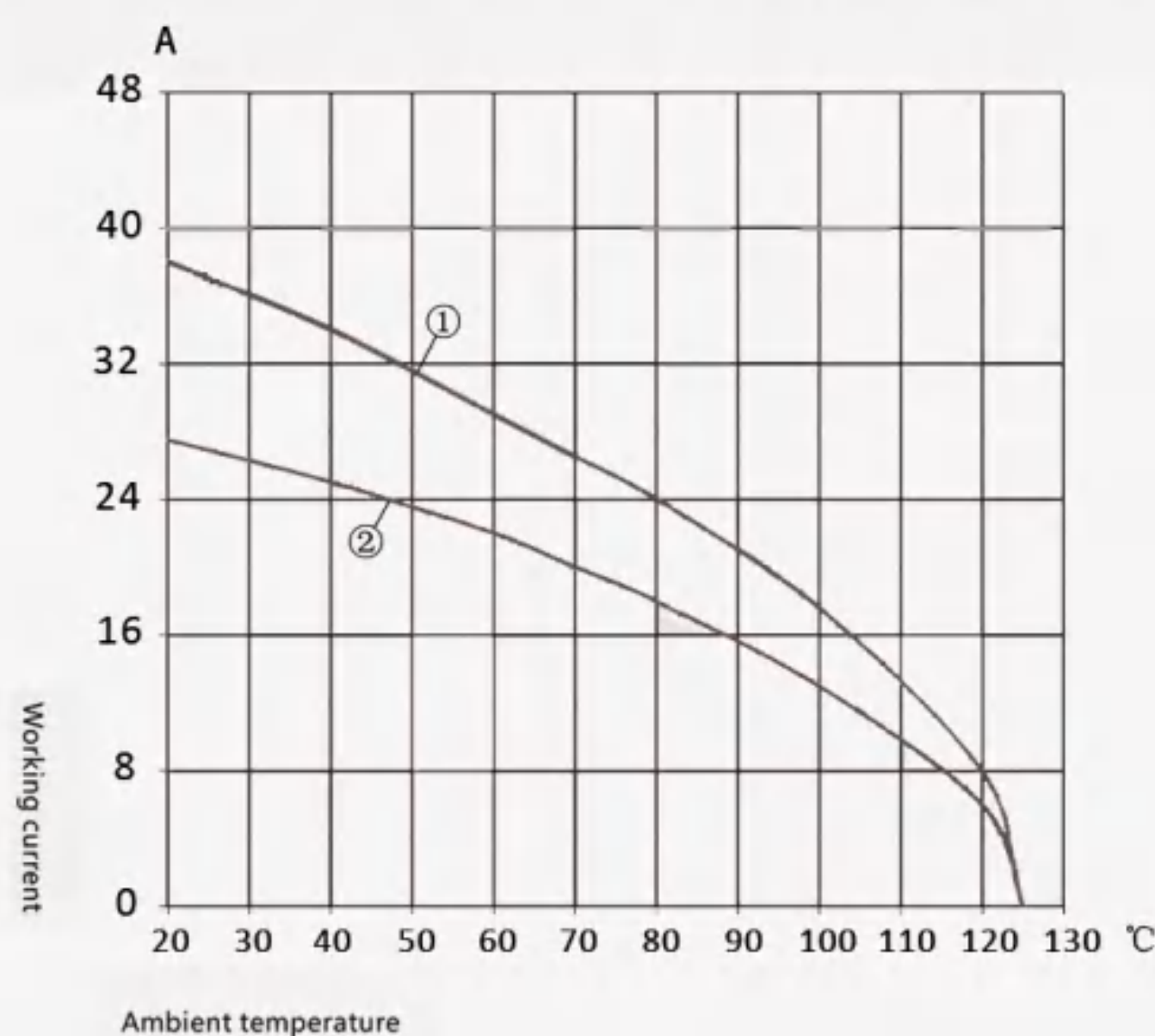
Specifications	DIN EN 60 664 DIN EN 61 984
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Inesrts		Contacts	
Number of contacts	4	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	40A	Contact resistance	≤1mΩ
-Rated voltage	830V	Crimp connection	
-Rated impulse voltage	6kV	-mm ²	1.5-6mm ²
-Pollution degree	3	-Wire gauge	
		-AWG	16-10
Pollution degree	600V		
Insulation resistance	≥10 ¹⁰ Ω		
Material	Polycarbonate		
Limiting temperatures	-40°C...+125°C		
Elammability acc.to UL 94	V0		
-Mating cycles	≥500		

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



① H24B hood/housing with 6 modules;wire gauge:6.0mm²

② H24B hood/housing with 6 modules;wire gauge:4.0mm²

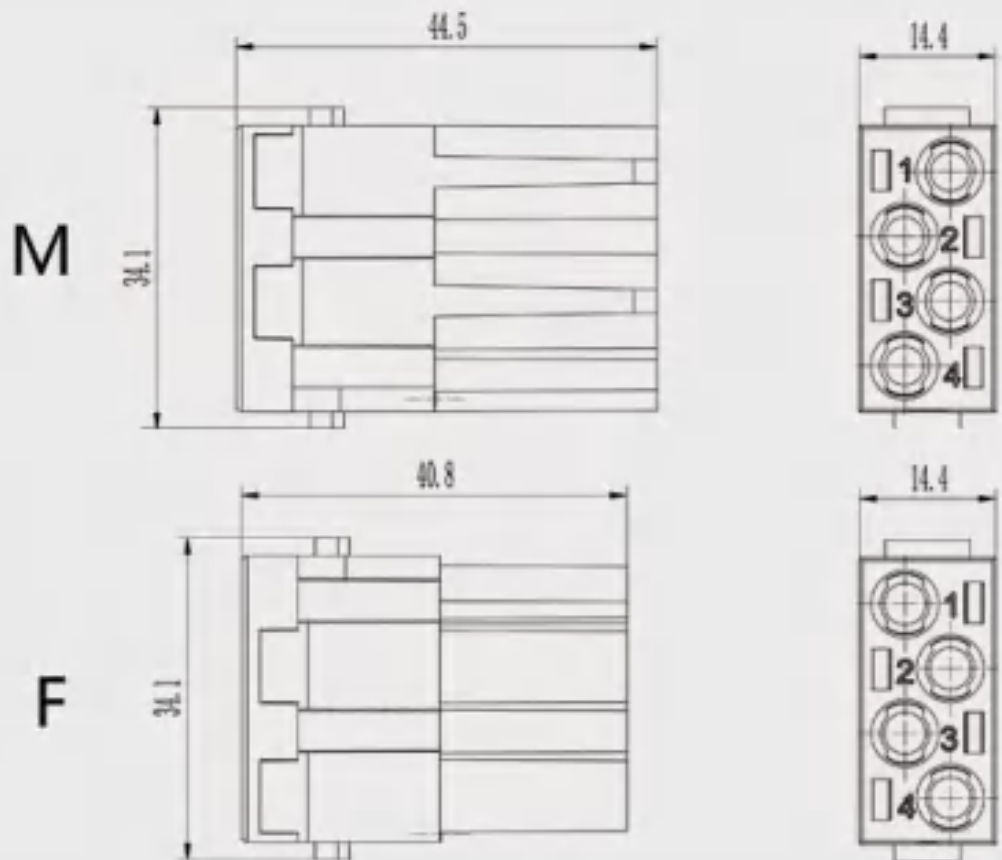
HMK

Crimp connection Order crimp contacts separately

NEW



Insert	Type	Order No.
Male	HMK-004-MC	3 004 070 90 101
Female	HMK-004-FC	3 004 070 90 102



Crimp contacts

Crimp contacts 40A

Contact resistance ≤0.3mΩ silver plated	Male	Order No.	Female	Order No.
	CMM-1.5	4 040 110 10 150	CMF-1.5	4 040 110 20 150
	CMM-2.5	4 040 110 10 250	CMF-2.5	4 040 110 20 250
	CMM-4.0	4 040 110 10 400	CMF-4.0	4 040 110 20 400
	CMM-6.0	4 040 110 10 600	CMF-6.0	4 040 110 20 600
	CMM-10.0	4 040 110 10 110	CMF-10.0	4 040 110 20 110



Accessories

Tool
Crimping tool

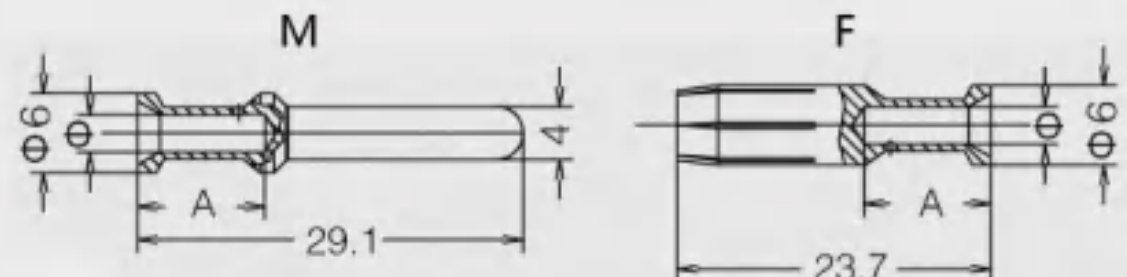


Contact removal tool



Application	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001
4-10mm ²	WFT-LY02	5 000 100 00 002

Application	Designation	Order No.
40A Terminal	WFT-HM01	5 000 200 00 001



Wire guaga	Φ	Strip length
1.5 mm ²	AWG 16	1.75
2.5mm ²	AWG 14	2.25
4 mm ²	AWG 12	2.85
6 mm ²	AWG 10	3.5
10 mm ²	AWG 8	4.3

The stripping length A = 15mm is applicable for cables with a diameter of ≥ 5mm.
The stripping length A = 18 mm is applicable for cables with a diameter of ≥ 6.4 mm.

830/830V 40/10A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications DIN EN 60 664
DIN EN 61 984

Inestrs		Contacts	
Number of contacts	3/4	Material	Copper alloy
Electrical dataacc.to EN61 984		Surface	Silver plating Gilding
		Contact resistance	
-Rated current	40A	- Power Zone	≤1mΩ
-Rated voltage	830V	- Signal Zone	≤3mΩ
-Rated impulse voltage	8kV	Crimp connection	
-Pollution degree	3	-mm ²	
Signal zone		- Power Zone	1.5-6mm ²
-Rated voltage	830V	- Signal Zone	0.14-2.5mm ²
-Rated current	10A	-AWG	
-Rated impulse voltage	8kV	- Power Zone	16-10
-Pollution degree	3	- Signal Zone	26-14
Rated voltage acc.to UL/CSA	600V	Maximum cable diameter	
Insulation resistance	≥10 ¹⁰ Ω	- Power Zone	5mm
Material	Polycarbonate		
Operating temperature range	-40°C...+125°C		
Flammability acc.to UL 94	V0		
Crimp connection Order crimp contacts separately			
-Mating cycles	≥500		



Insert	Type	Order No.
Male	HMK-003/4-MC	3 007 162 11 34 101
Female	HMK-003/4-FC	3 007 162 11 34 102

Crimp contacts

Crimp contacts 40A/10A

Contact resistance ≤3mΩ



Wire gauge	Order No.	Designation	Order No.
DSM-0.37	4 010 110 10 037	DSF-0.37	4 010 110 20 037
DSM-0.5	4 010 110 10 050	DSF-0.5	4 010 110 20 050
DSM-0.75	4 010 110 10 075	DSF-0.75	4 010 110 20 075
DSM-1.0	4 010 110 10 100	DSF-1.0	4 010 110 20 100
DSM-1.5	4 010 110 10 150	DSF-1.5	4 010 110 20 150
DSM-2.5	4 010 110 10 250	DSF-2.5	4 010 110 20 250

Contact resistance ≤3mΩ



Wire gauge	Order No.	Designation	Order No.
DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
DGM-2.5	4 010 210 10 250	DGF-2.5	4 010 210 20 250

Contact resistance ≤0.3mΩ

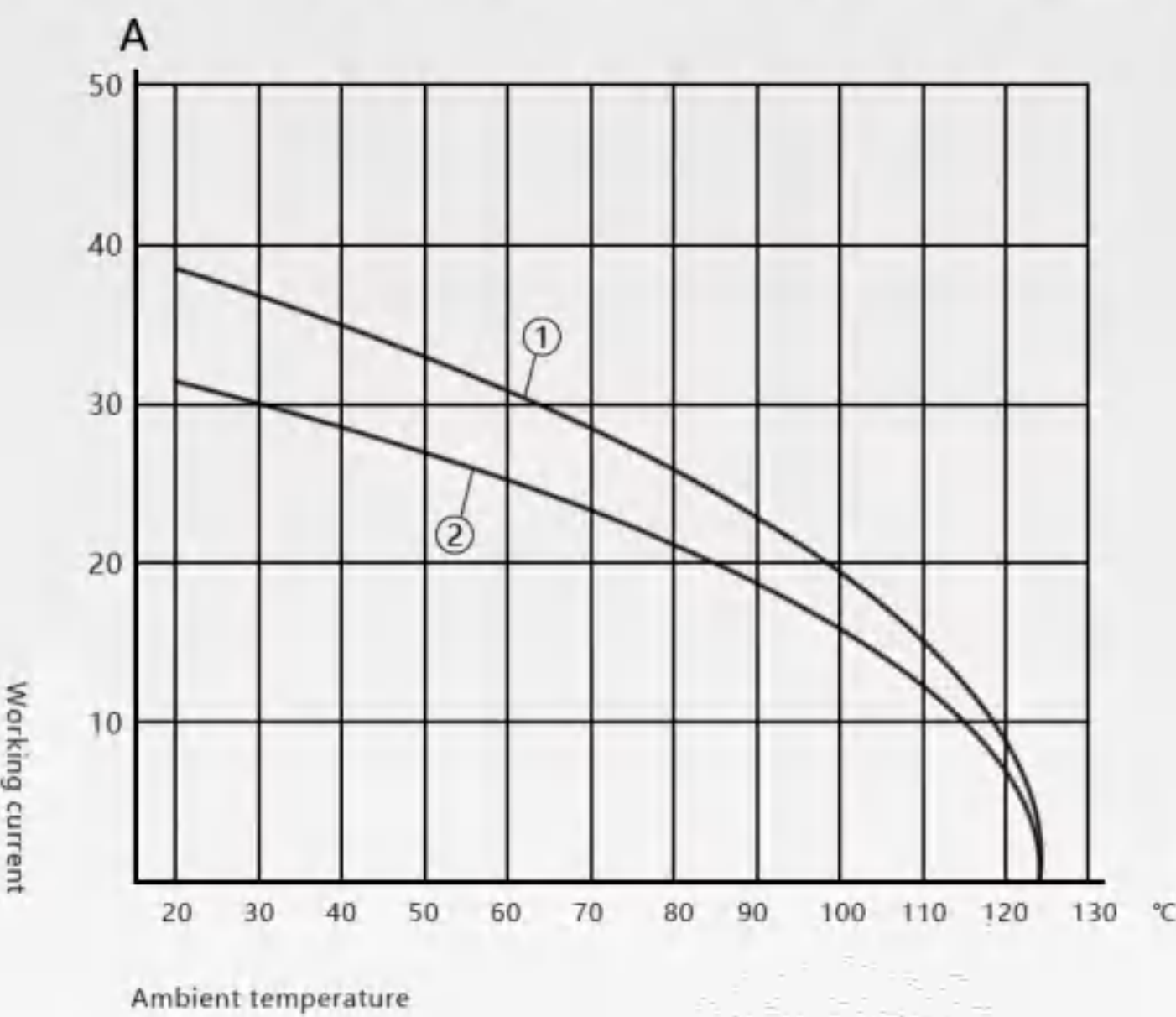


Male	Order No.	Female	Order No.
CMM-1.5	4 040 110 10 150	CMF-1.5	4 040 110 20 150
CMM-2.5	4 040 110 10 250	CMF-2.5	4 040 110 20 250
CMM-4.0	4 040 110 10 400	CMF-4.0	4 040 110 20 400
CMM-6.0	4 040 110 10 600	CMF-6.0	4 040 110 20 600
CMM-10.0	4 040 110 10 110	CMF-10.0	4 040 110 20 110

Current carrying capacity

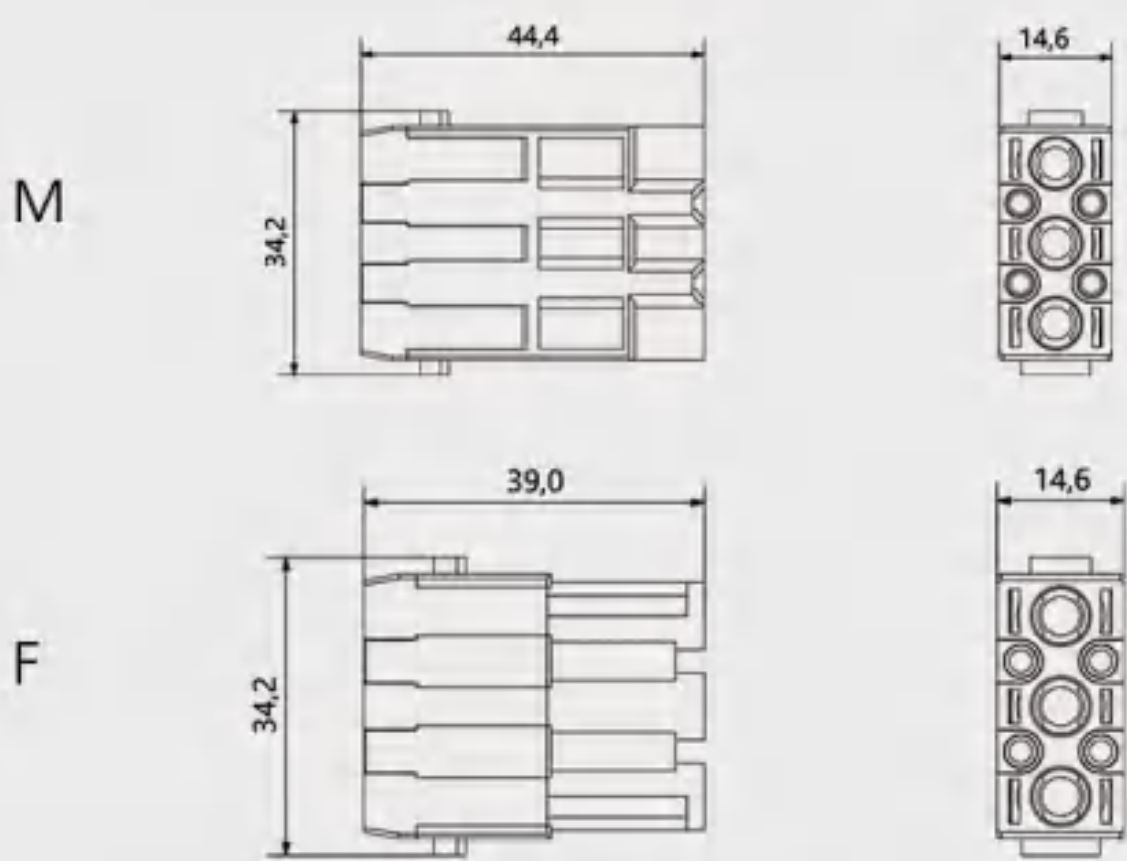
The current carrying is limited by maximun temperature of materials for inserts and contacts including terminals.

Control and test procedures according to DIN EN 60512-5

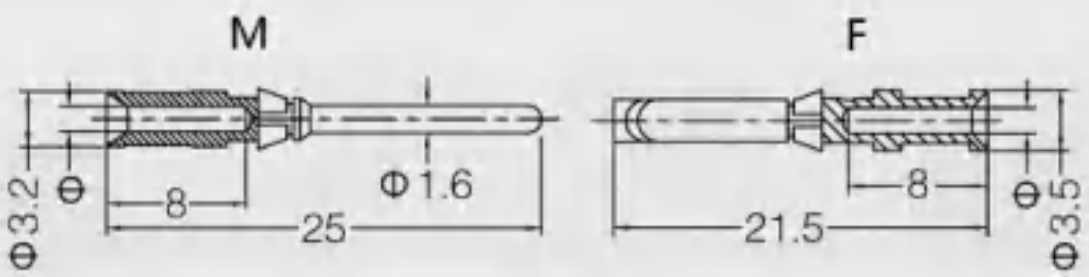


① H24B hood/housing with 6 modules;wire gauge:6.0mm²

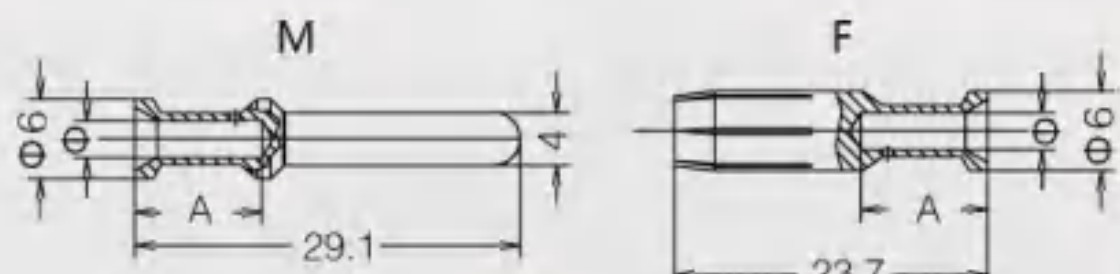
② H24B hood/housing with 6 modules;wire gauge:4.0mm²



HMK



Wire guaga		Φ	Strip length
0.14-0.37mm ²	AWG 26-22	0.9	8 mm
0.5mm ²	AWG 20	1.1	8 mm
0.75mm ²	AWG 18	1.3	8 mm
1mm ²	AWG 18	1.45	8 mm
1.5mm ²	AWG 16	1.75	8 mm
2.5mm ²	AWG 14	2.25	6 mm



Wire guaga		Φ	Strip length
1.5 mm ²	AWG 16	1.75	9 mm
2.5mm ²	AWG 14	2.25	9 mm
4 mm ²	AWG 12	2.85	9.6 mm
6 mm ²	AWG 10	3.5	9.6 mm
10 mm ²	AWG 8	4.3	15 mm

The stripping length A = 15mm is applicable for cables with a diameter of ≥ 5mm.
The stripping length A = 18 mm is applicable for cables with a diameter of ≥ 6.4 mm.

500V 40A
Insertrs



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

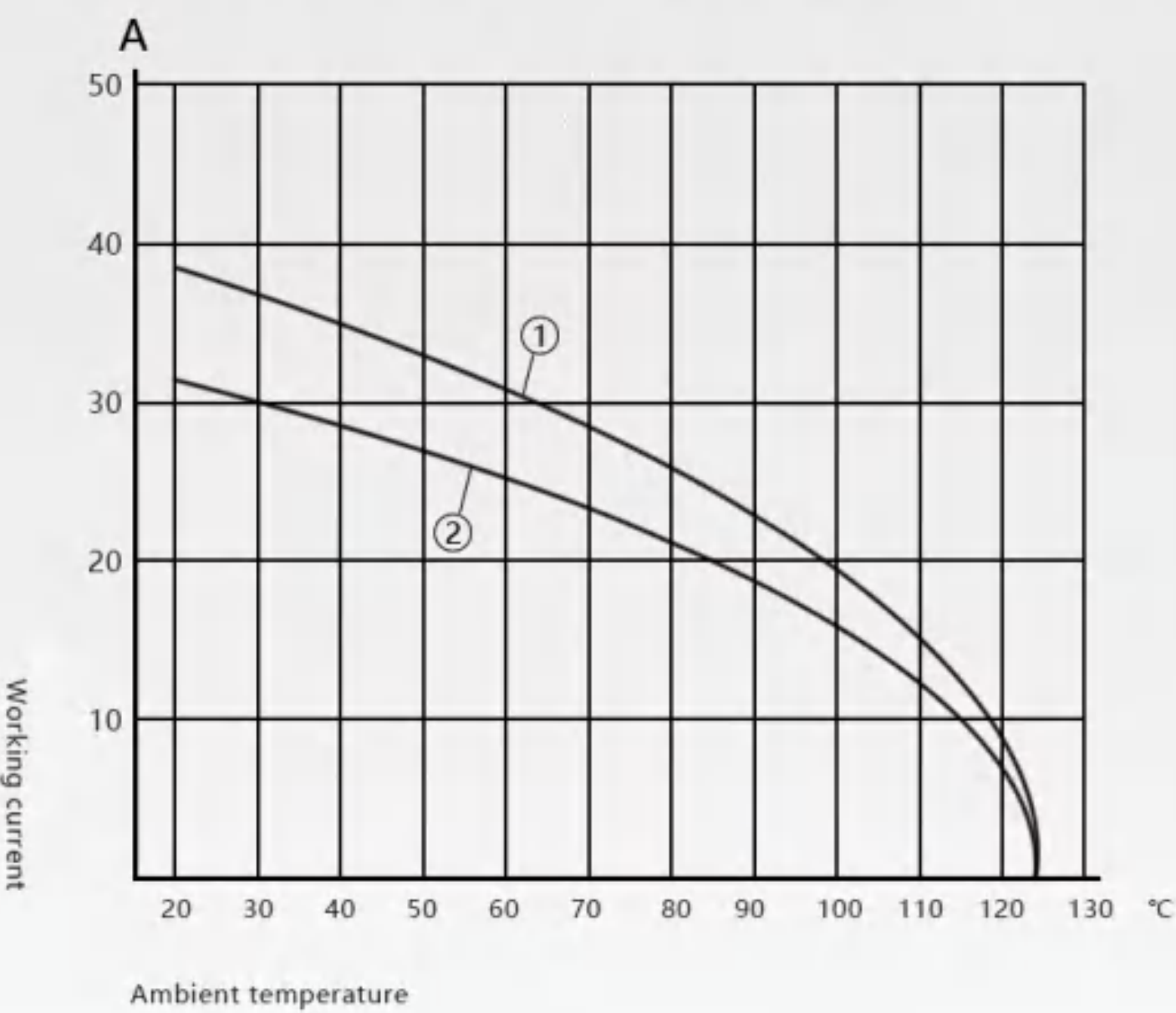
Specifications	DIN EN 60 664
	DIN EN 61 984

Insertrs		Contacts	
Number of contacts	3	Material	Copper alloy
Electrical dataacc.to EN61 984		Surface	Silver plating
-Rated current	40A	Contact resistance	≤1mΩ
-Rated voltage	500V	Crimp connection	
-Rated impulse voltage	6kV	-mm ²	1.5-10mm ²
-Pollution degree	3	-Wire gauge	
		-AWG	16-8
According to the rated current of UL/CSA	600V 32A		
Insulation resistance	≥10 ¹⁰ Ω		
Material	Polycarbonate		
Limiting temperatures	-40°C...+125°C		
Flammability acc.to UL 94	V0		
-Mating cycles	≥500		

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



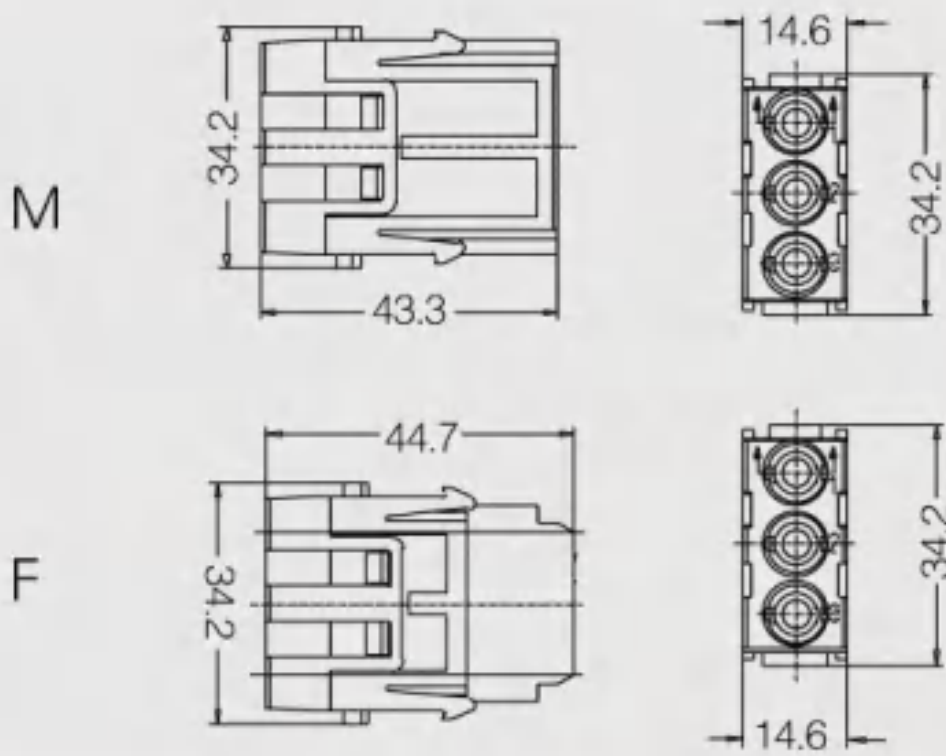
① H24B hood/housing with 6 modules;wire gauge:6.0mm²

② H24B hood/housing with 6 modules;wire gauge:4.0mm²

HMK

Crimp connection Order crimp contacts separately

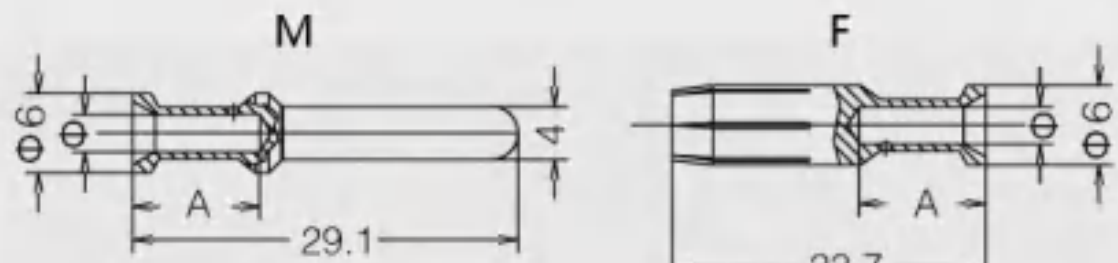
Insert	Type	Order No.
Male	HMK-003-MC	3 003 070 20 101
Female	HMK-003-FC	3 003 070 20 102



Crimp contacts

Crimp contacts 40A

Contact resistance ≤0.3mΩ silver plated	Male	Order No.	Female	Order No.
	CMM-1.5	4 040 110 10 150	CMF-1.5	4 040 110 20 150
	CMM-2.5	4 040 110 10 250	CMF-2.5	4 040 110 20 250
	CMM-4.0	4 040 110 10 400	CMF-4.0	4 040 110 20 400
	CMM-6.0	4 040 110 10 600	CMF-6.0	4 040 110 20 600
	CMM-10.0	4 040 110 10 110	CMF-10.0	4 040 110 20 110



Wire guaga	Φ	Strip length
1.5 mm ²	AWG 16	1.75
2.5mm ²	AWG 14	2.25
4 mm ²	AWG 12	2.85
6 mm ²	AWG 10	3.5
10 mm ²	AWG 8	4.3

The stripping length A = 15mm is applicable for cables with a diameter of ≥ 5mm.
The stripping length A = 18 mm is applicable for cables with a diameter of ≥ 6.4 mm.

Accessories

Tool
Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001
4-10mm ²	WFT-LY02	5 000 100 00 002

Application	Designation	Order No.
40A Terminal	WFT-HM01	5 000 200 00 001

HMK-003 Axial Compression-Type Module



690V 40A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
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Inesrts		Contacts	
Number of contacts	3	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	40A	Contact resistance	1mΩ
-Rated voltage	690V	Axial screw connection	
-Rated impulse voltage	8kV	-mm ²	2.5-10mm ²
-Pollution degree	3	-Wire gauge	
		-AWG	14-8
Rated voltage acc.to UL/CSA	600V	Hex key	SW2
Insulation resistance	≥10 ¹⁰ Ω	-Stripping length	
Material	Polycarbonate	-mm ²	2.5 4 6 10
Limiting temperatures	-40°C...+125°C	-mm	5 ⁺¹ 5 ⁺¹ 8 ⁺¹ 11 ⁺¹
Flammability acc.to UL 94	V0	-Tightening tourque	
-Mating cycles	≥500	-mm ²	2.5 4 6 10
Axial screw connection		-Nm	1.5 1.5 2 2



Insert	Wire gauge	Type	Order No.
Male	2.5-8mm ²	HMK-003.1-M	3 003 070 71 101
	6-10mm ²	HMK-003.2-M	3 003 070 72 101
Female	2.5-8mm ²	HMK-003.1-F	3 003 070 71 102
	6-10mm ²	HMK-003.2-F	3 003 070 72 102

Accessories

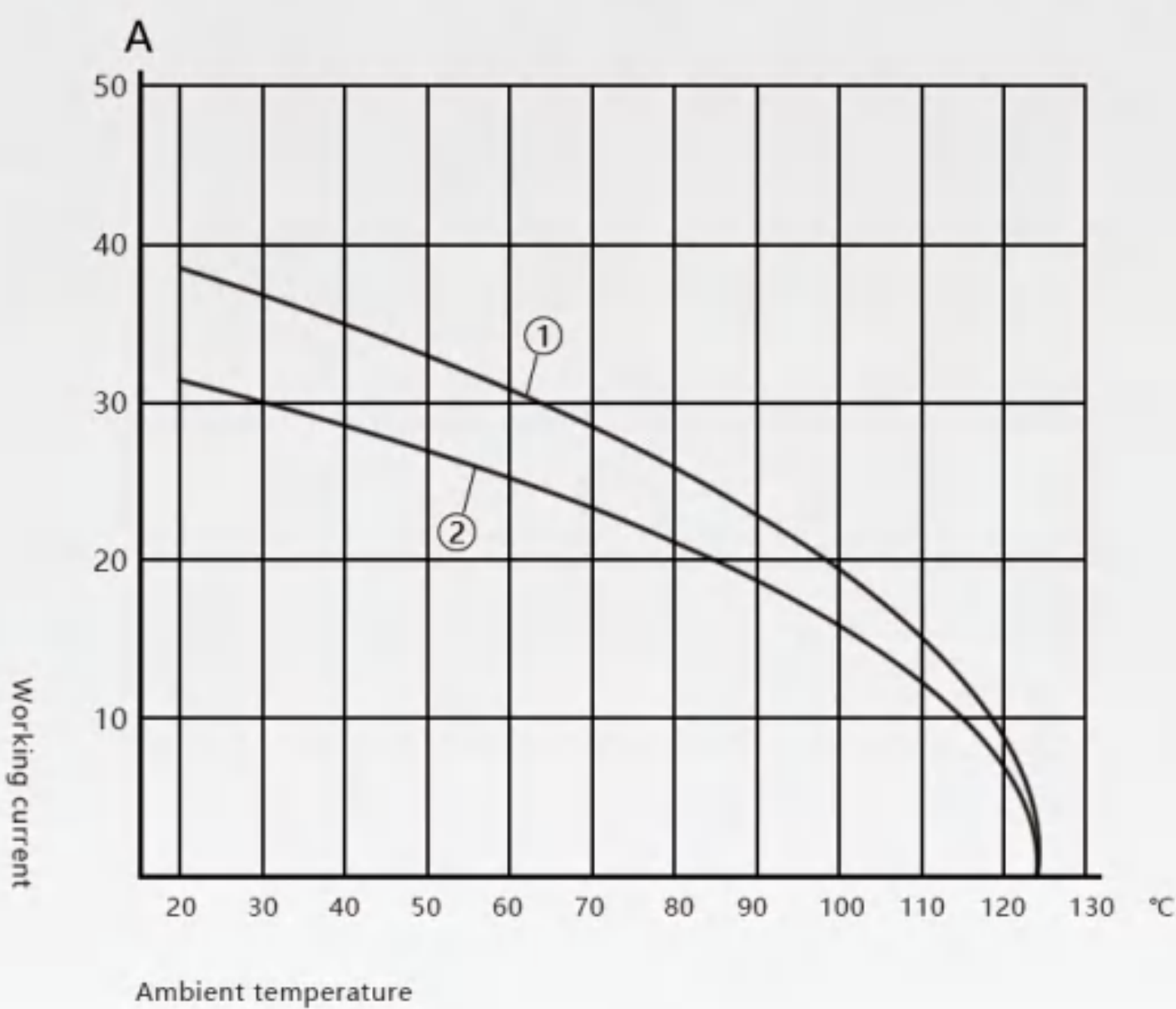
Hex key	Insert	Type	Order No.
	For fastening the screw	SW-2	1 608 31 012



Current carrying capacity

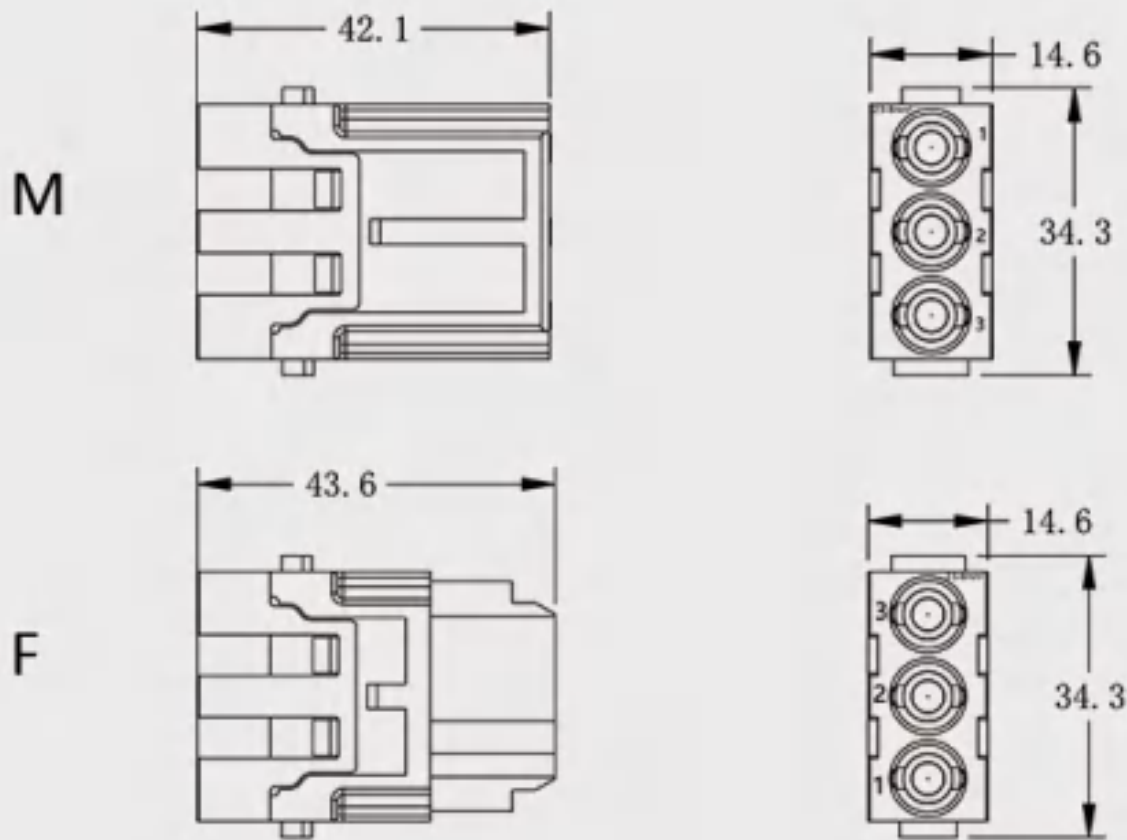
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals.

Control and test procedures according to DIN EN 60512-5



① H24B hood/housing with 6 modules;wire gauge:6.0mm²

② H24B hood/housing with 6 modules;wire gauge:4.0mm²



HME

Inserts



Can be combined with the frame and all other modules.

Technical characteristics

Specifications

Specifications	DIN EN 60 664
	DIN EN 61 984

Inserts		Contacts	
Number of contacts	5	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	16A	Contact resistance	$\leq 3\text{m}\Omega$
-Rated voltage	400V	Spring connect	
-Rated impulse voltage	6kV	-mm ²	0.14-2.5mm ²
-Pollution degree	3	-Wire gauge	26-14
-AWG			
Rated voltage acc.to UL/CSA	600V		
Insulation resistance	$\geq 10^{10}\Omega$		
Material	Polycarbonate		
Limiting temperatures	-40°C...+125°C		
Flammability acc.to UL 94	V0		
-Mating cycles	≥ 500		

Spring connect

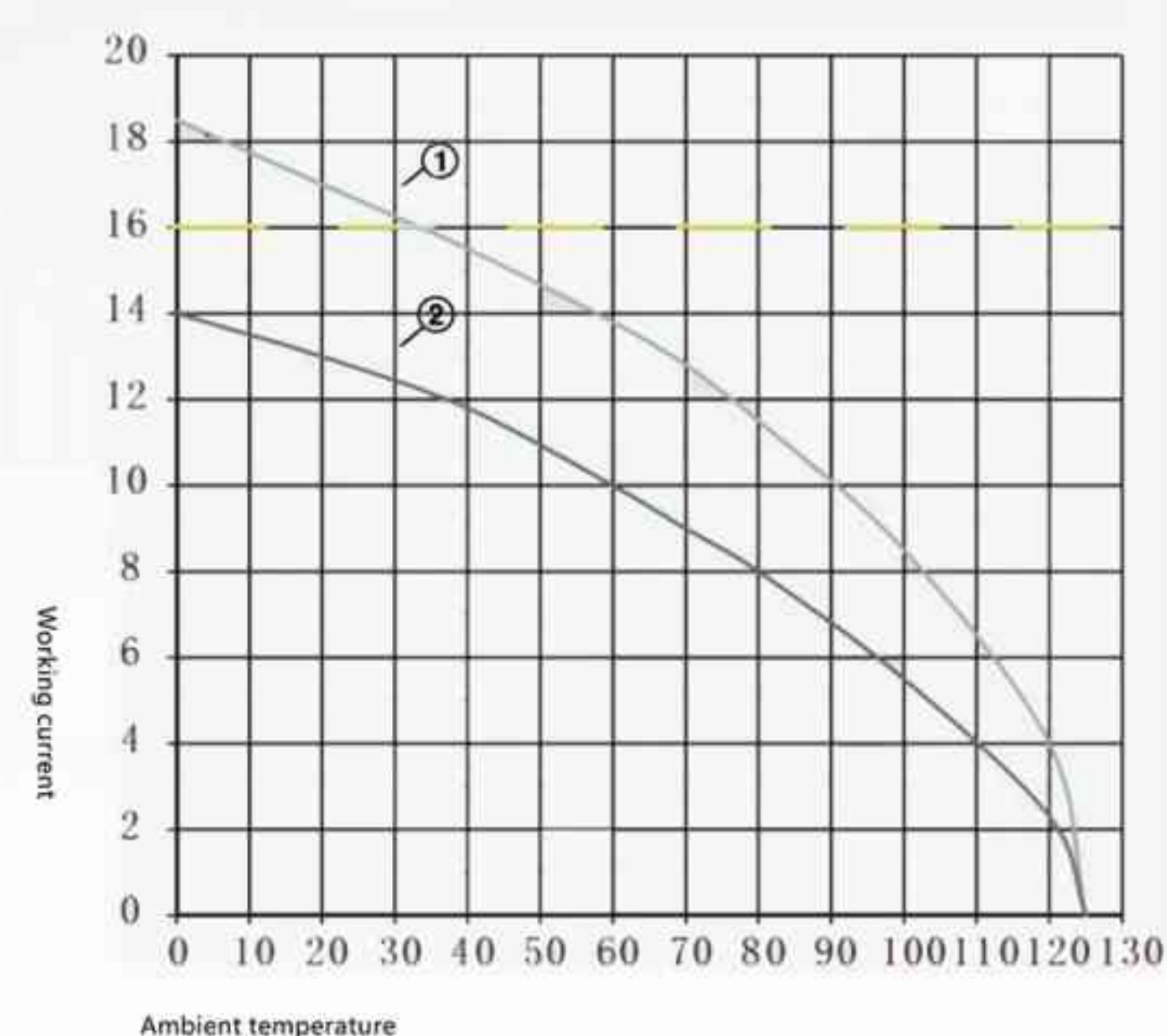


Insert	Type	Order No.
Male	HME-005-MS	3 005 070 60 101
Female	HME-005-FS	3 005 070 60 102

Current carrying capacity

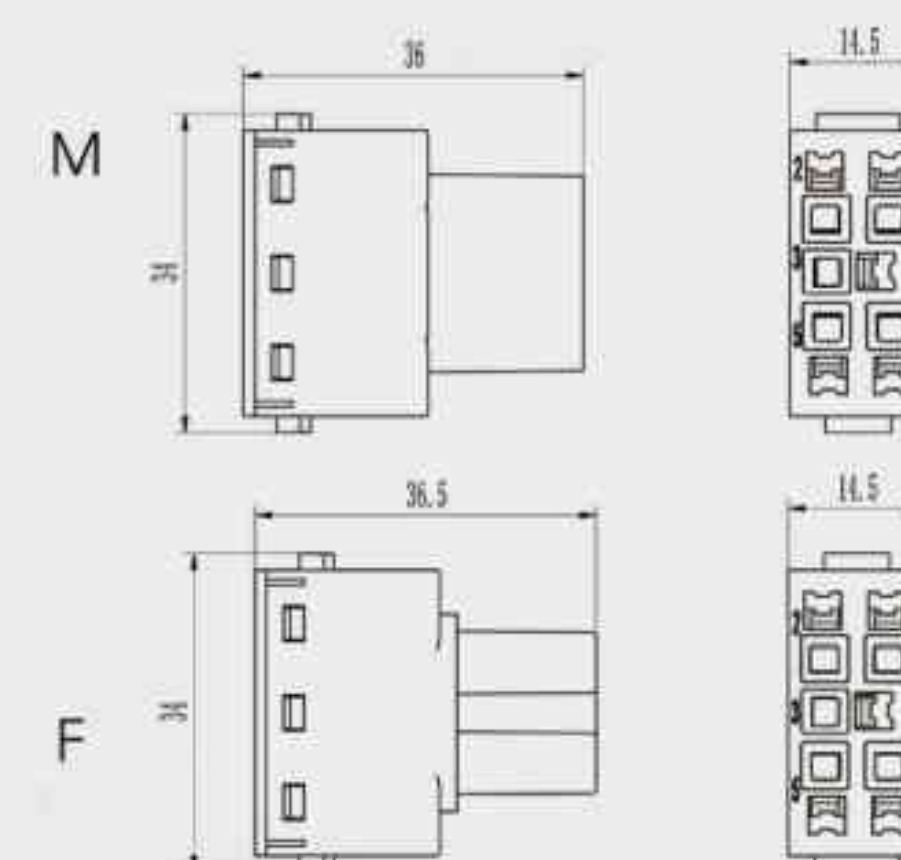
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals.

Control and test procedures according to DIN IEC 60512-3



① H24B hood/housing with 6 modules; wire gauge: 2.5mm²

② H24B hood/housing with 6 modules; wire gauge: 1.5mm²



HME

500V 16A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

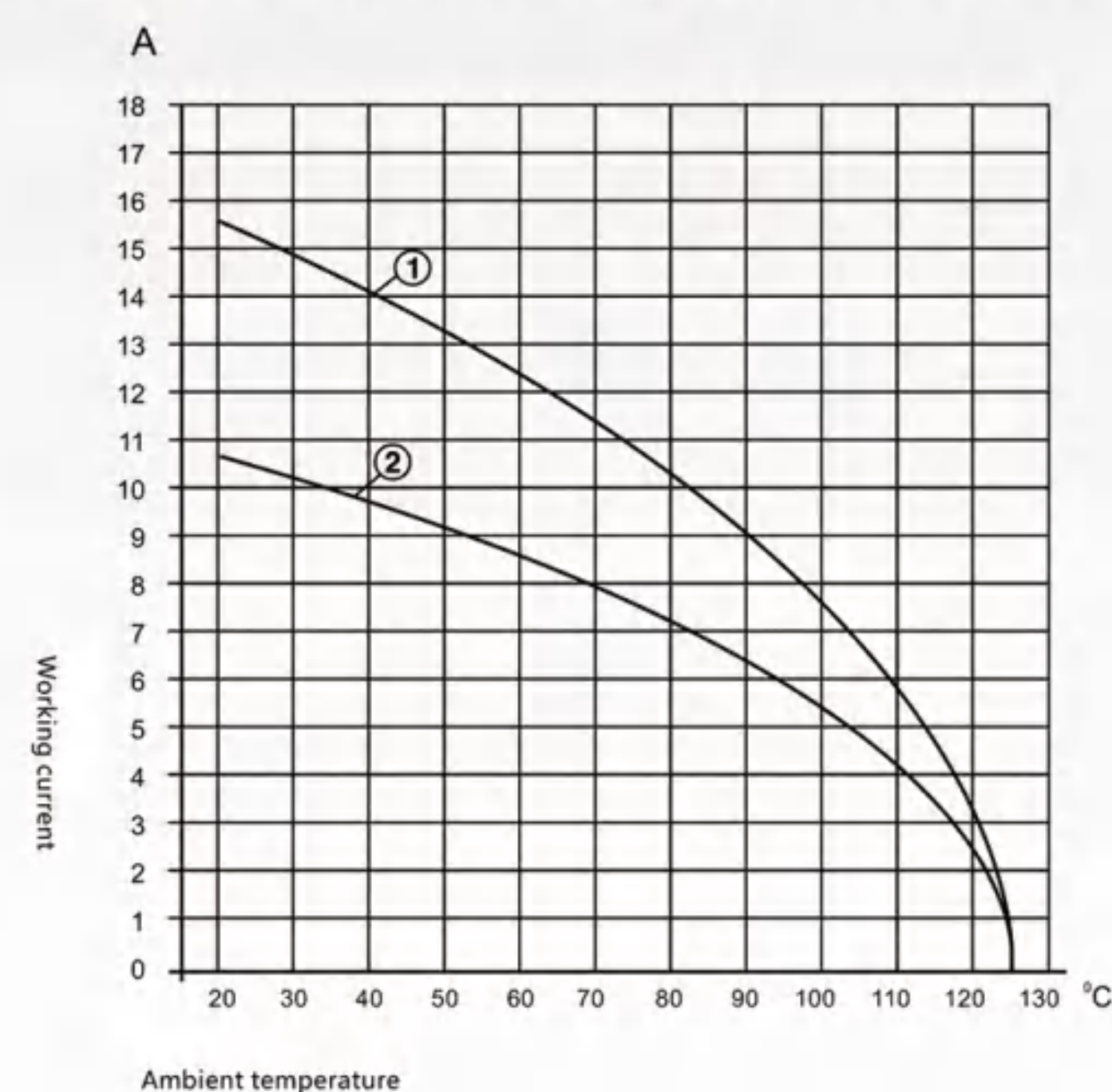
Specifications	DIN EN 60 664
	DIN EN 61 984

Insrts	Contacts
Number of contacts	6
Electrical data acc.to EN61 984	Material Copper alloy
-Rated current	16A
-Rated voltage	500V
-Rated impulse voltage	6kV
-Pollution degree	3
Rated voltage acc.to UL/CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Limiting temperatures	-40°C...+125°C
Flammability acc.to UL 94	V0
-Mating cycles	≥ 500

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



① H24B hood/housing with 6 modules; wire gauge: 2.5mm²

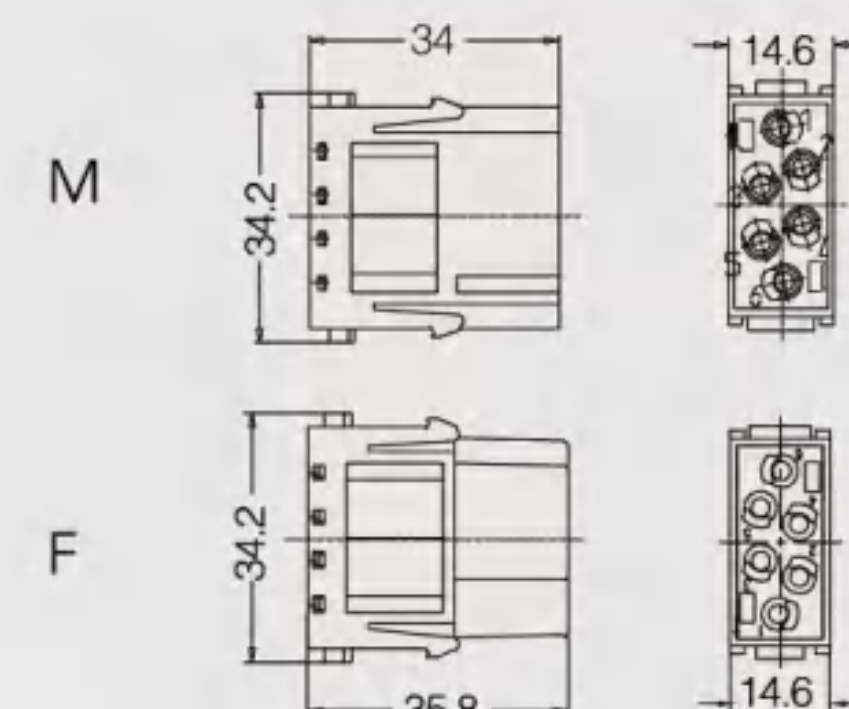
② H24B hood/housing with 6 modules; wire gauge: 1.5mm²

Crimp connection Order crimp contacts separately



Insert	Type	Order No.
Male	HME-006-MC	3 006 070 20 101
Female	HME-006-FC	3 006 070 20 102

HME



Crimp contacts

Crimp contacts 16A

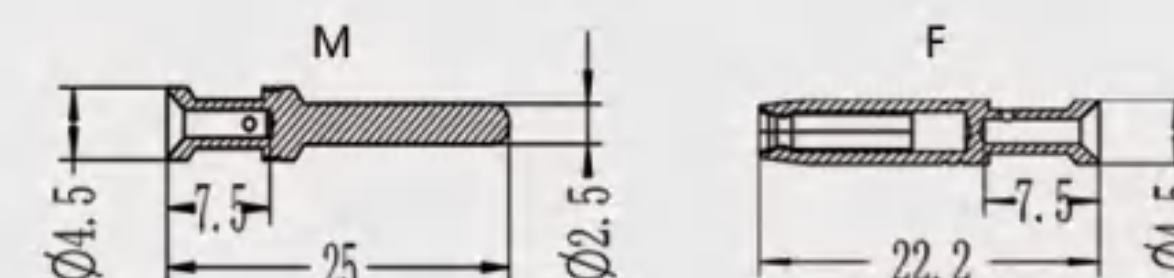
Contact resistance $\leq 1\text{m}\Omega$		Male	Order No.	Female	Order No.
	silver plated	ESM-0.37	4 016 110 10 037	ESF-0.37	4 016 110 20 037
		ESM-0.5	4 016 110 10 050	ESF-0.5	4 016 110 20 050
		ESM-0.75	4 016 110 10 075	ESF-0.75	4 016 110 20 075
		ESM-1.0	4 016 110 10 100	ESF-1.0	4 016 110 20 100
		ESM-1.5	4 016 110 10 150	ESF-1.5	4 016 110 20 150
		ESM-2.5	4 016 110 10 250	ESF-2.5	4 016 110 20 250
	gold plated	ESM-4.0	4 016 110 10 400	ESF-4.0	4 016 110 20 400
		EGM-0.37	4 016 210 10 037	EGF-0.37	4 016 210 20 037
		EGM-0.5	4 016 210 10 050	EGF-0.5	4 016 210 20 050
		EGM-0.75	4 016 210 10 075	EGF-0.75	4 016 210 20 075
		EGM-1.0	4 016 210 10 100	EGF-1.0	4 016 210 20 100
		EGM-1.5	4 016 210 10 150	EGF-1.5	4 016 210 20 150
		EGM-2.5	4 016 210 10 250	EGF-2.5	4 016 210 20 250
		EGM-4.0	4 016 210 10 400	EGF-4.0	4 016 210 20 400

Accessories

Tool	Wire gauge	Designation	Order No.
Crimping tool	0.37-4mm ²	WFT-LY01	5 000 100 00 001



Tool	Application	Designation	Order No.
Contact removal tool	16A Terminal	WFT-HEE01	5 000 200 00 002



Identification	Wire gauge		Stripping length
no groove	0.14-0.37mm ²	AWG 26-22	7.5mm
no groove	0.5mm ²	AWG 20	7.5mm
1 groove	0.75mm ²	AWG 18	7.5mm
1 groove	1mm ²	AWG 18	7.5mm
2 groove	1.5mm ²	AWG 16	7.5mm
3 groove	2.5mm ²	AWG 14	7.5mm
wide groove	3mm ²	AWG 12	7.5mm
no groove	4mm ²	AWG 12	7.5mm

400V 16A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
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Insrts		Contacts	
Number of contacts	8	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating Gilding
-Rated current	16A	Contact resistance	≤1mΩ
-Rated voltage	400V	Crimp connection	
-Rated impulse voltage	6kV	-mm ²	0.14-4mm ²
-Pollution degree	3	-Wire gauge	
		-AWG	26-12
Rated voltage acc.to UL/CSA	600V		
Insulation resistance	≥10 ¹⁰ Ω		
Material	Polycarbonate		
Limiting temperatures	-40°C...+125°C		
Flammability acc.to UL 94	V0		
-Mating cycles	≥500		

Crimp connection Order crimp contacts separately

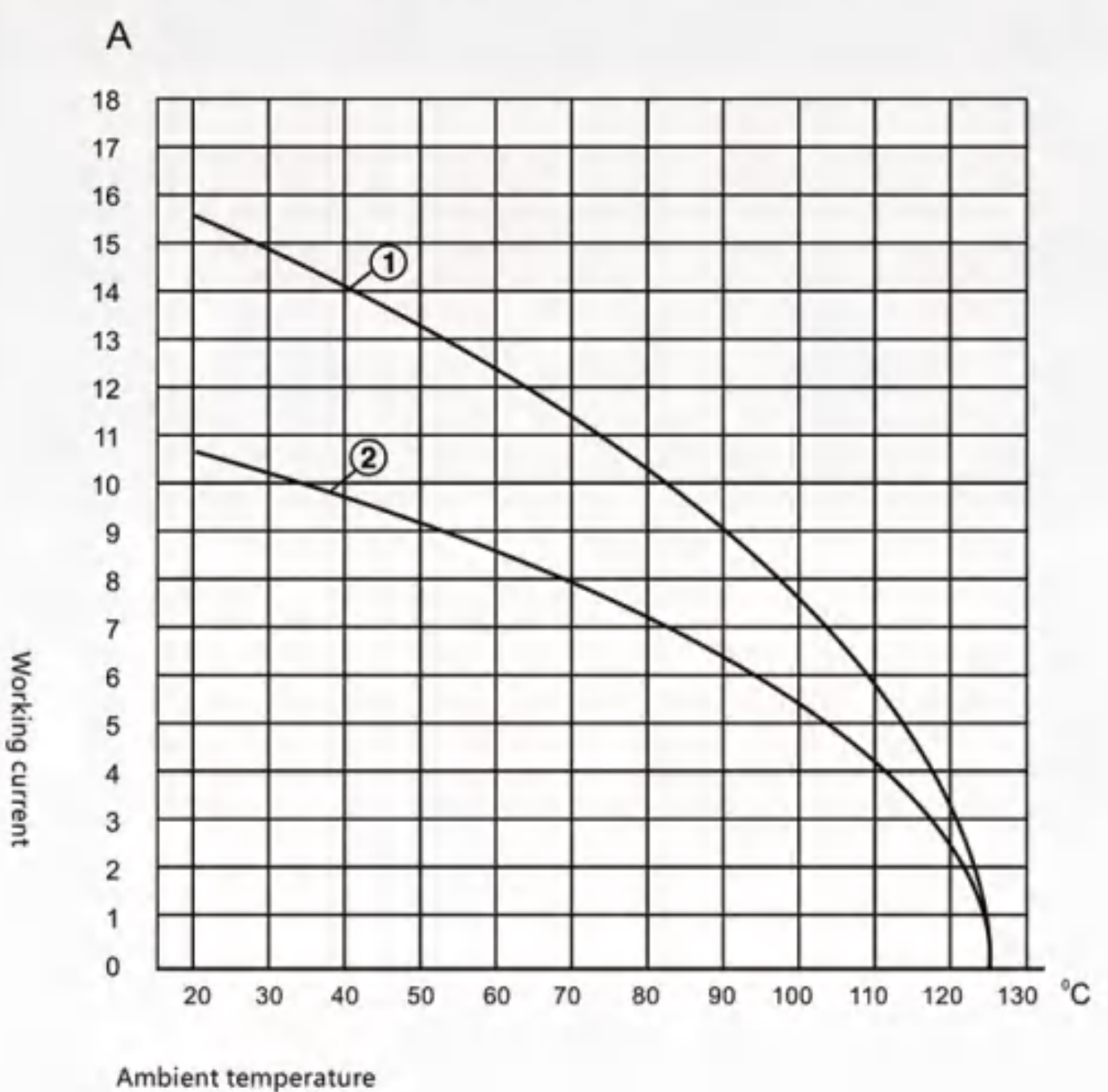


Insert	Type	Order No.
Male	HMEE-008-MC	3 008 070 20 101
Female	HMEE-008-FC	3 008 070 20 102

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



- ① H24B hood/housing with 6 modules;wire gauge:2.5mm²
- ② H24B hood/housing with 6 modules;wire gauge:1.5mm²

HME

Crimp contacts

Crimp contacts 16A

Contact resistance ≤1mΩ



silver plated



gold plated

Male	Order No.	Female	Order No.
ESM-0.37	4 016 110 10 037	ESF-0.37	4 016 110 20 037
ESM-0.5	4 016 110 10 050	ESF-0.5	4 016 110 20 050
ESM-0.75	4 016 110 10 075	ESF-0.75	4 016 110 20 075
ESM-1.0	4 016 110 10 100	ESF-1.0	4 016 110 20 100
ESM-1.5	4 016 110 10 150	ESF-1.5	4 016 110 20 150
ESM-2.5	4 016 110 10 250	ESF-2.5	4 016 110 20 250
ESM-4.0	4 016 110 10 400	ESF-4.0	4 016 110 20 400
EGM-0.37	4 016 210 10 037	EGF-0.37	4 016 210 20 037
EGM-0.5	4 016 210 10 050	EGF-0.5	4 016 210 20 050
EGM-0.75	4 016 210 10 075	EGF-0.75	4 016 210 20 075
EGM-1.0	4 016 210 10 100	EGF-1.0	4 016 210 20 100
EGM-1.5	4 016 210 10 150	EGF-1.5	4 016 210 20 150
EGM-2.5	4 016 210 10 250	EGF-2.5	4 016 210 20 250
EGM-4.0	4 016 210 10 400	EGF-4.0	4 016 210 20 400

Accessories

Tool

Crimping tool

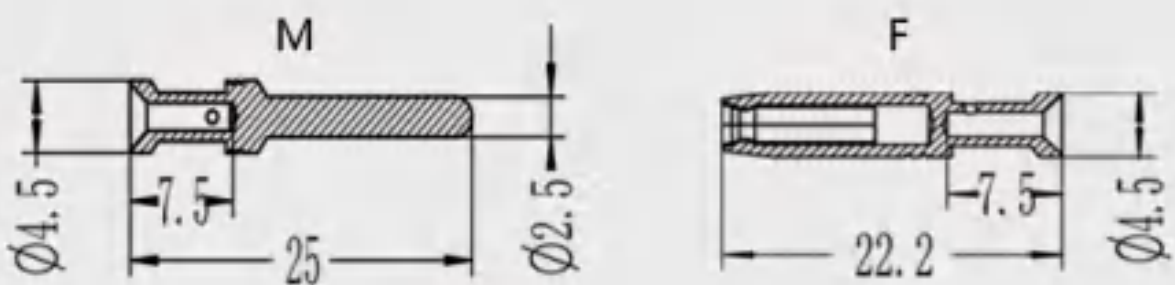


Contact removal tool



Wire gauge	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001

Application	Designation	Order No.
16A Terminal	WFT-HEE01	5 000 200 00 002



Identification	Wire gauge		Stripping length
no groove	0.14-0.37mm ²	AWG 26-22	7.5mm
no groove	0.5mm ²	AWG 20	7.5mm
1 groove	0.75mm ²	AWG 18	7.5mm
1 groove	1mm ²	AWG 18	7.5mm
2 groove	1.5mm ²	AWG 16	7.5mm
3 groove	2.5mm ²	AWG 14	7.5mm
wide groove	3mm ²	AWG 12	7.5mm
no groove	4mm ²	AWG 12	7.5mm

500V 16A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664
	DIN EN 61 984

Insrts

Number of contacts	20
Electrical data acc.to EN61 984	
-Rated current	16A
-Rated voltage	500V
-Rated impulse voltage	6kV
-Pollution degree	3
Rated voltage acc.to UL/CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Limiting temperatures	-40°C...+125°C
Flammability acc.to UL 94	V0
-Mating cycles	≥ 500

Contacts

Material	Copper alloy
Surface	Silver plating Gilding
Contact resistance	$\leq 1\text{m}\Omega$
Crimp connection	
-mm ²	0.14-4mm ²
-Wire gauge	
-AWG	26-12

Crimp connection Order crimp contacts separately

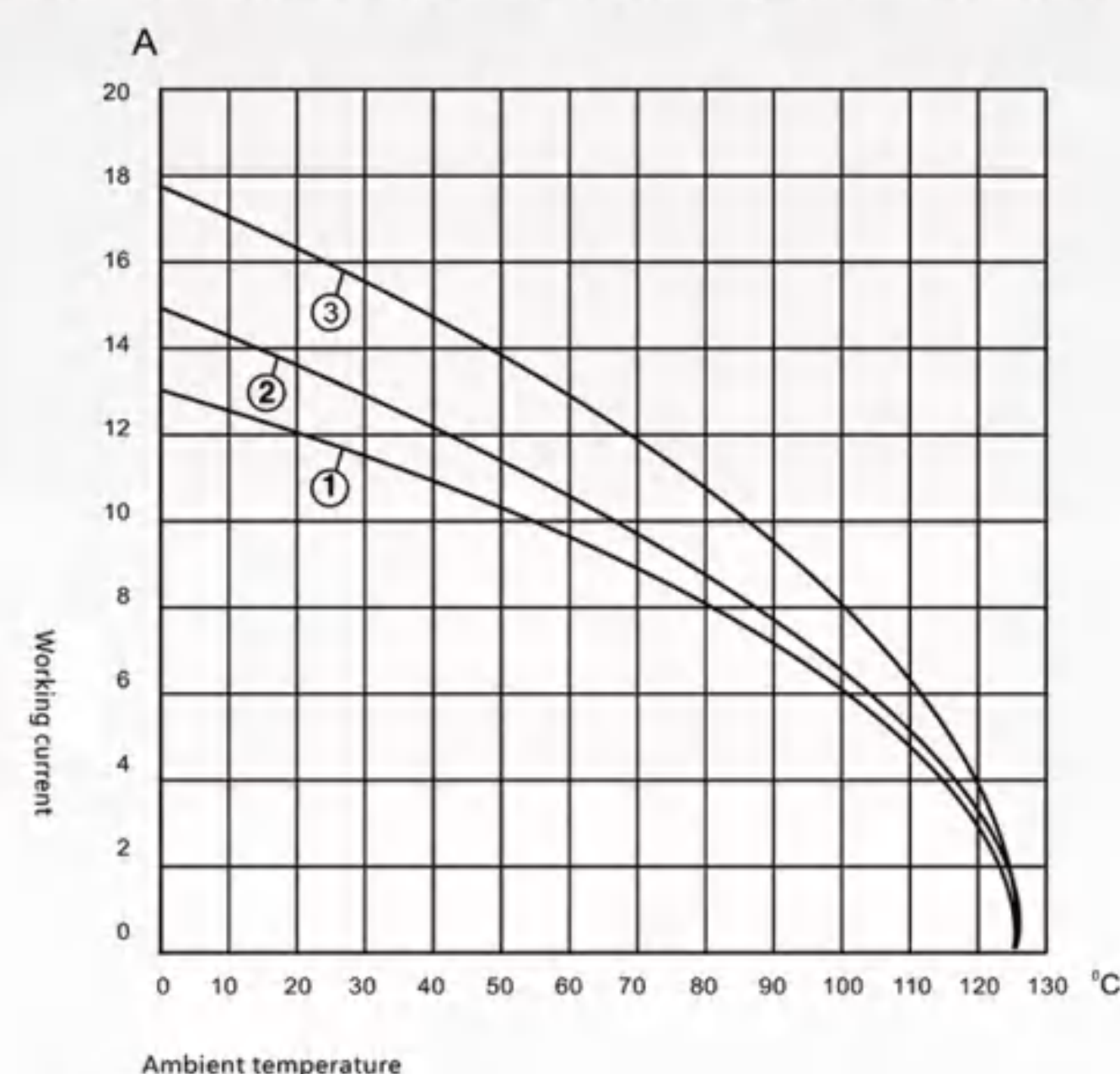


Insert	Type	Order No.
Male	HMEE-020-MC	3 020 070 20 101
Female	HMEE-020-FC	3 020 070 20 102

Current carrying capacity

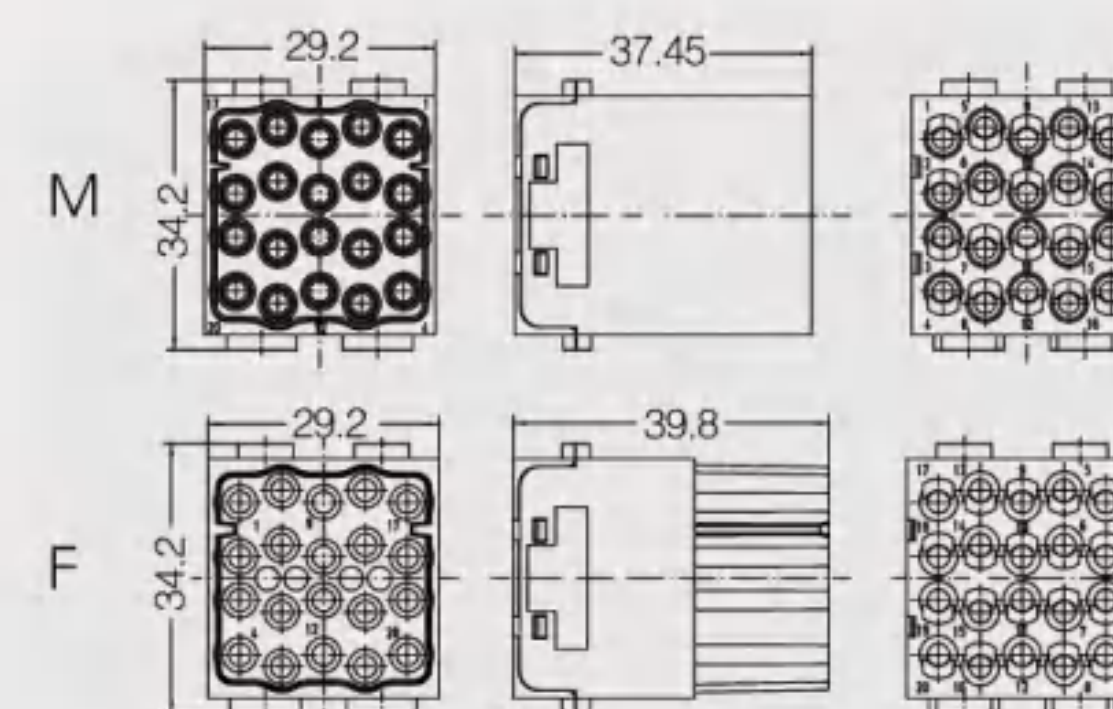
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals.

Control and test procedures according to DIN IEC 60512-3



- ① H24B hood/housing with 3 modules; wire gauge: 1.5mm²
 ② H24B hood/housing with 3 modules; wire gauge: 2.5mm²
 ③ H24B hood/housing with 3 modules; wire gauge: 4mm²

HMEE



Crimp contacts

Crimp contacts 16A

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



Silver plated



Gold plated

Male	Order No.	Female	Order No.
ESM-0.37	4 016 110 10 037	ESF-0.37	4 016 110 20 037
ESM-0.5	4 016 110 10 050	ESF-0.5	4 016 110 20 050
ESM-0.75	4 016 110 10 075	ESF-0.75	4 016 110 20 075
ESM-1.0	4 016 110 10 100	ESF-1.0	4 016 110 20 100
ESM-1.5	4 016 110 10 150	ESF-1.5	4 016 110 20 150
ESM-2.5	4 016 110 10 250	ESF-2.5	4 016 110 20 250
ESM-4.0	4 016 110 10 400	ESF-4.0	4 016 110 20 400
EGM-0.37	4 016 210 10 037	EGF-0.37	4 016 210 20 037
EGM-0.5	4 016 210 10 050	EGF-0.5	4 016 210 20 050
EGM-0.75	4 016 210 10 075	EGF-0.75	4 016 210 20 075
EGM-1.0	4 016 210 10 100	EGF-1.0	4 016 210 20 100
EGM-1.5	4 016 210 10 150	EGF-1.5	4 016 210 20 150
EGM-2.5	4 016 210 10 250	EGF-2.5	4 016 210 20 250
EGM-4.0	4 016 210 10 400	EGF-4.0	4 016 210 20 400

Accessories

Tool

Crimping tool

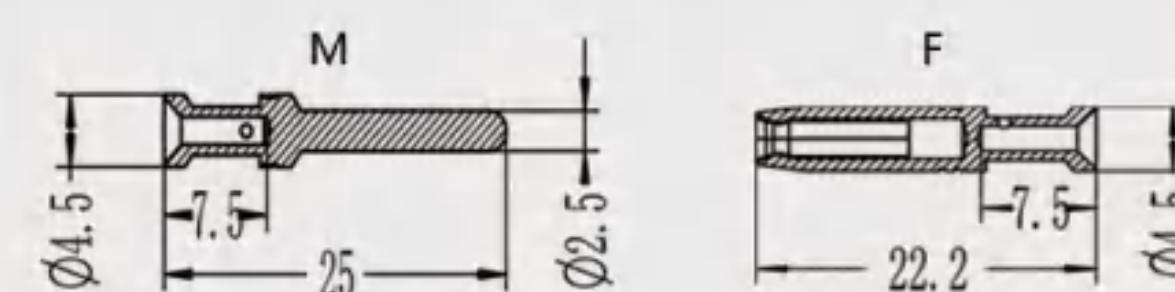


Contact removal tool



Wire gauge	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001

Application	Designation	Order No.
16A Terminal	WFT-HEE01	5 000 200 00 002



Identification	Wire gauge		Stripping length
no groove	0.14-0.37mm ²	AWG 26-22	7.5mm
no groove	0.5mm ²	AWG 20	7.5mm
1 groove	0.75mm ²	AWG 18	7.5mm
1 groove	1mm ²	AWG 18	7.5mm
2 groove	1.5mm ²	AWG 16	7.5mm
3 groove	2.5mm ²	AWG 14	7.5mm
wide groove	3mm ²	AWG 12	7.5mm
no groove	4mm ²	AWG 12	7.5mm

250V 10A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664
	DIN EN 61 984

Insrts

Number of contacts	12
Electrical data acc.to EN61 984	
-Rated current	10A
-Rated voltage	250V
-Rated impulse voltage	4kV
-Pollution degree	3
Rated voltage acc.to UL/CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Limiting temperatures	-40°C...+125°C
Flammability acc.to UL 94	V0
-Mating cycles	≥ 500

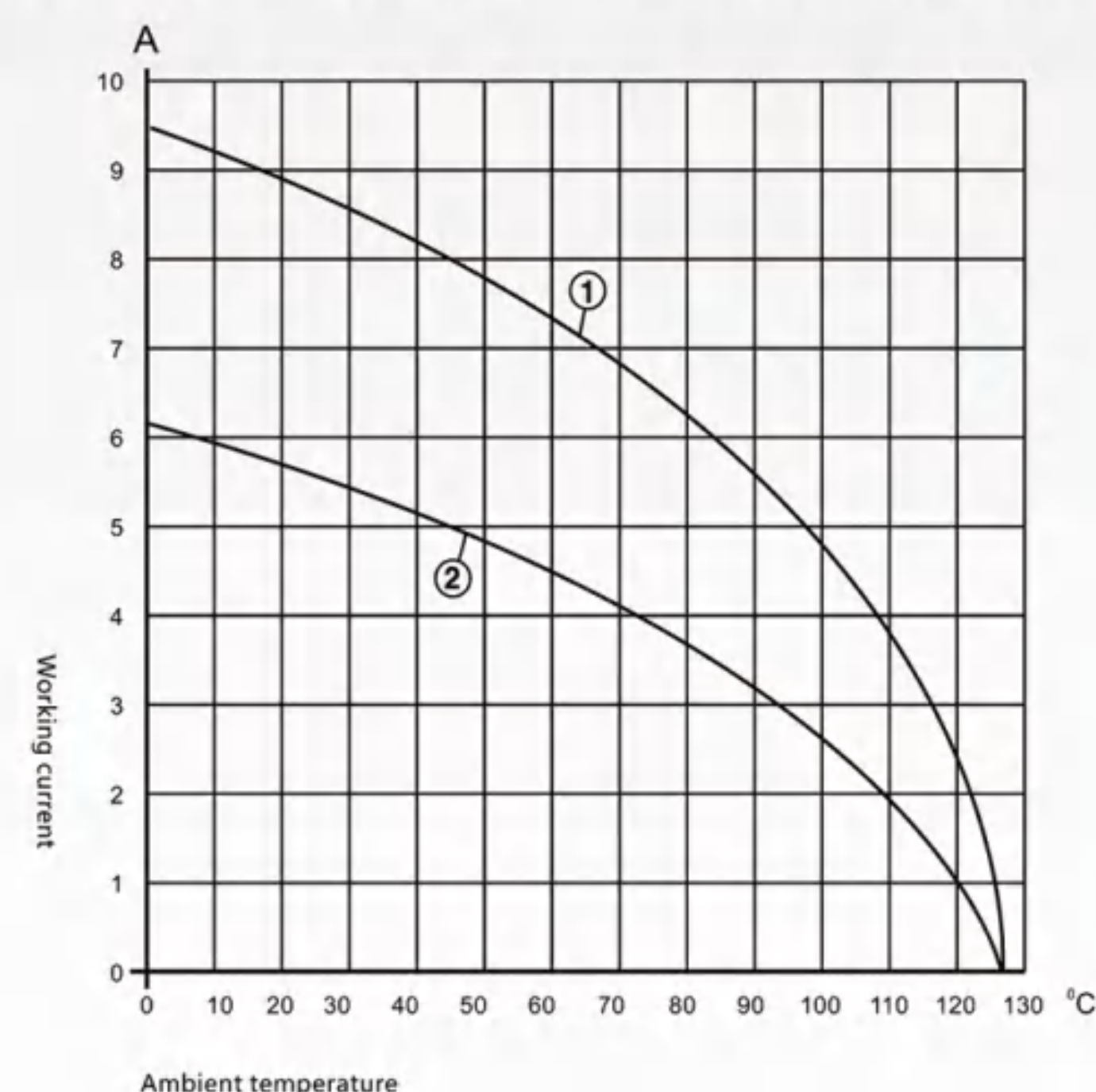
Contacts

Material	Copper alloy
Surface	Silver plating Gilding
Contact resistance	$\leq 3m\Omega$
Crimp connection	
-mm ²	0.14-2.5mm ²
-Wire gauge	
-AWG	26-14

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



① H24B hood/housing with 6 modules; wire gauge: 1.5mm²

② H24B hood/housing with 6 modules; wire gauge: 1.0mm²

Crimp connection Order crimp contacts separately



Insert	Type	Order No.
Male	HMD-012-MC	3 012 070 20 101
Female	HMD-012-FC	3 012 070 20 102

HMD

Crimp contacts

Crimp contacts 10A

Contact resistance $\leq 3m\Omega$	Male	Order No.	Female	Order No.
silver plated	DSM-0.37	4 010 110 10 037	DSF-0.37	4 010 110 20 037
	DSM-0.5	4 010 110 10 050	DSF-0.5	4 010 110 20 050
	DSM-0.75	4 010 110 10 075	DSF-0.75	4 010 110 20 075
	DSM-1.0	4 010 110 10 100	DSF-1.0	4 010 110 20 100
	DSM-1.5	4 010 110 10 150	DSF-1.5	4 010 110 20 150
gold plated	DSM-2.5	4 010 110 10 250	DSF-2.5	4 010 110 20 250
	DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
	DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
	DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
	DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
	DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
	DGM-2.5	4 010 210 10 250	DGF-2.5	4 010 210 20 250

Accessories

Tool
Crimping tool

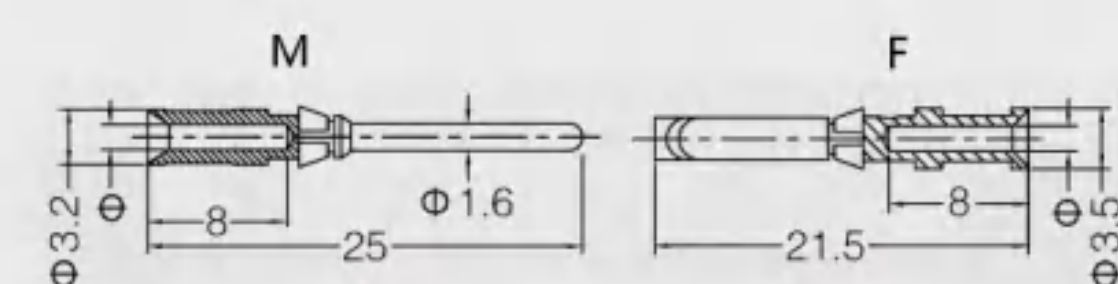


Contact removal tool



Wire gauge	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001

Application	Designation	Order No.
10A Terminal	WFT-HD01	5 000 200 00 003



Wire gauge	Φ	Stripping length
0.14-0.37mm ²	0.9	8 mm
0.5mm ²	1.1	8 mm
0.75mm ²	1.3	8 mm
1mm ²	1.45	8 mm
1.5mm ²	1.75	8 mm
2.5mm ²	2.25	6 mm

160V 10A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
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Inesrts	Contacts
Number of contacts	17
Electrical data acc.to EN61 984	Material Copper alloy
-Rated current	10A
-Rated voltage	160V
-Rated impulse voltage	2.5kV
-Pollution degree	3
Rated voltage acc.to UL/CSA	600V
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C...+125°C
Flammability acc.to UL 94	V0
-Mating cycles	≥500

Crimp connection Order crimp contacts separately



Insert	Type	Order No.
Male	HMDD-017-MC	3 017 070 20 101
Female	HMDD-017-FC	3 017 070 20 102

Crimp contacts

Crimp contacts 10A

Contact resistance ≤3mΩ	Male	Order No.	Female	Order No.
Silver plated	DSM-0.37	4 010 110 10 037	DSF-0.37	4 010 110 20 037
	DSM-0.5	4 010 110 10 050	DSF-0.5	4 010 110 20 050
	DSM-0.75	4 010 110 10 075	DSF-0.75	4 010 110 20 075
	DSM-1.0	4 010 110 10 100	DSF-1.0	4 010 110 20 100
	DSM-1.5	4 010 110 10 150	DSF-1.5	4 010 110 20 150
	DSM-2.5	4 010 110 10 250	DSF-2.5	4 010 110 20 250
Gold plated	DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
	DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
	DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
	DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
	DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
	DGM-2.5	4 010 210 10 250	DGF-2.5	4 010 210 20 250

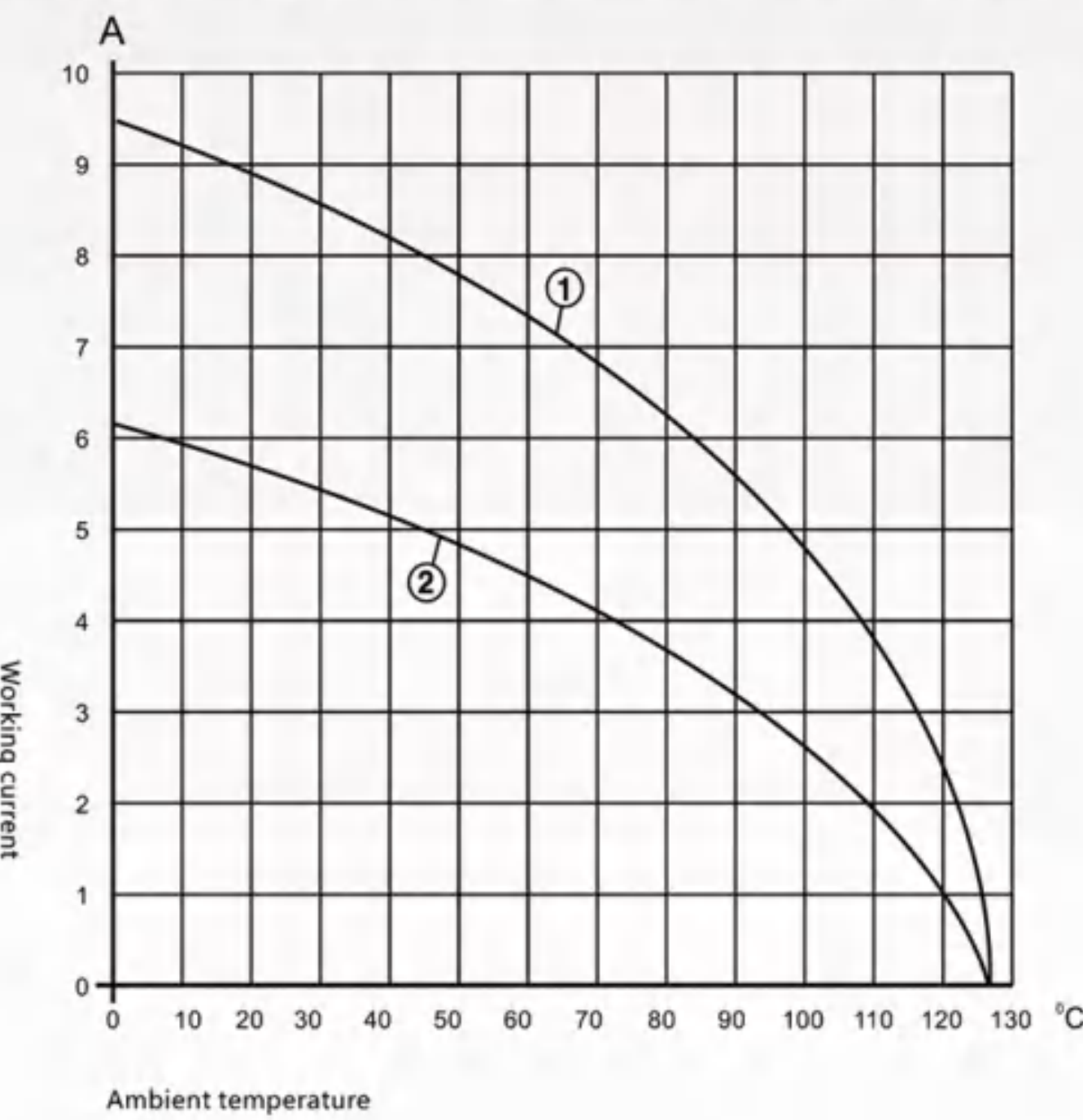
Accessories

Tool	Wire gauge	Designation	Order No.
Crimping tool	0.37-4mm ²	WFT-LY01	5 000 100 00 001
Contact removal tool			
	Application	Designation	Order No.
	10A Terminal	WFT-HD01	5 000 200 00 003

Current carrying capacity

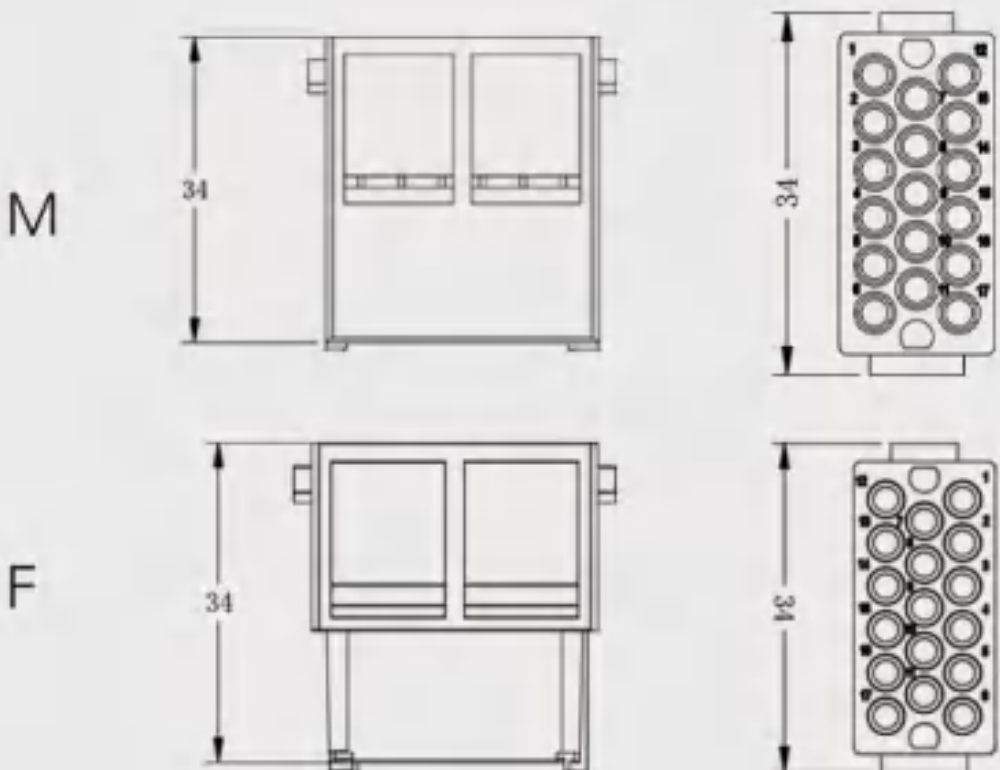
The current carrying is limited by maximun temperature of materials for inserts and contacts including terminals.

Control and test procedures according to DIN IEC 60512-3



- ① H24B hood/housing with 6 modules; wire gauge: 1.5mm²
- ② H24B hood/housing with 6 modules; wire gauge: 1.0mm²

HMDD



Wire gauge	Φ	Stripping length
0.14-0.37mm ²	0.9	8 mm
0.5mm ²	1.1	8 mm
0.75mm ²	1.3	8 mm
1mm ²	1.45	8 mm
1.5mm ²	1.75	8 mm
2.5mm ²	2.25	6 mm

400V 10A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

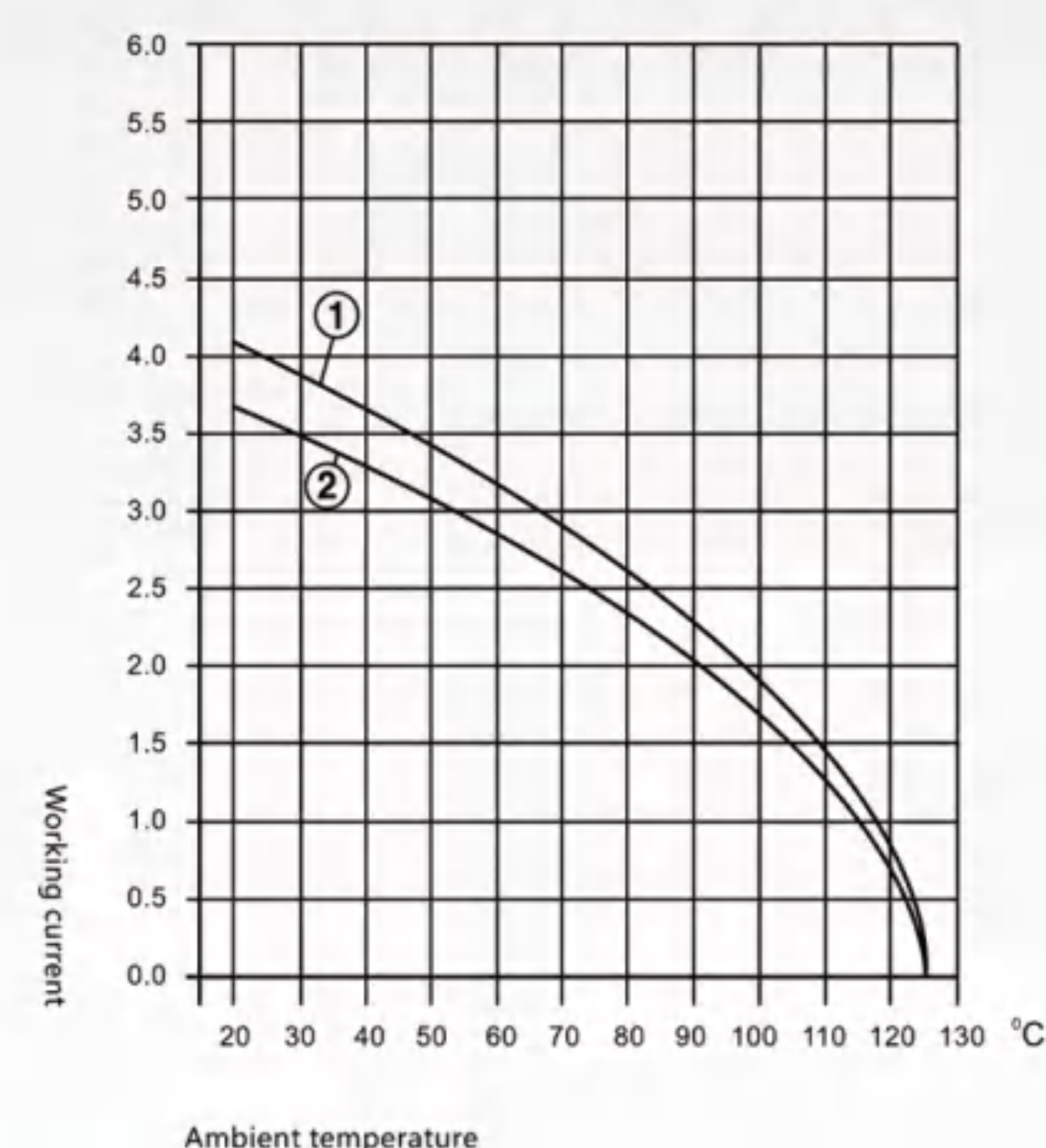
Specifications	DIN EN 60 664 DIN EN 61 984
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Insrts		Contacts	
Number of contacts	36	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating
-Rated current	10A	Contact resistance	≤1mΩ
-Rated voltage	400V	Crimp connection	
-Rated impulse voltage	6kV	-mm ²	0.14-2.5mm ²
-Pollution degree	3	-Wire gauge	
		-AWG	26-14
Rated voltage acc.to UL/CSA	600V		
Insulation resistance	≥10 ¹⁰ Ω		
Material	Polycarbonate		
Limiting temperatures	-40°C-+125°C		
Flammability acc.to UL 94	V0		
-Mating cycles	≥500		

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



Turned contacts

H24B hood/housing with 6 modules;wire gauge:0.5mm²

Stamped contacts

H24B hood/housing with 6 modules;wire gauge:0.5mm²

HMDD



Insert	Type	Order No.
Male	HMDD-036-MC	3 017 074 11 36 101
Female	HMDD-036-FC	3 017 074 11 36 102

Crimp contacts

Crimp contacts 10A

Contact resistance ≤3mΩ	Male	Order No.	Female	Order No.
	DSM-0.37	4 010 110 10 037	DSF-0.37	4 010 110 20 037
	DSM-0.5	4 010 110 10 050	DSF-0.5	4 010 110 20 050
	DSM-0.75	4 010 110 10 075	DSF-0.75	4 010 110 20 075
	DSM-1.0	4 010 110 10 100	DSF-1.0	4 010 110 20 100
	DSM-1.5	4 010 110 10 150	DSF-1.5	4 010 110 20 150
	DSM-2.5	4 010 110 10 250	DSF-2.5	4 010 110 20 250
	DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
	DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
	DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
	DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
	DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
	DGM-2.5	4 010 210 10 250	DGF-2.5	4 010 210 20 250

Accessories

Tool
Crimping tool

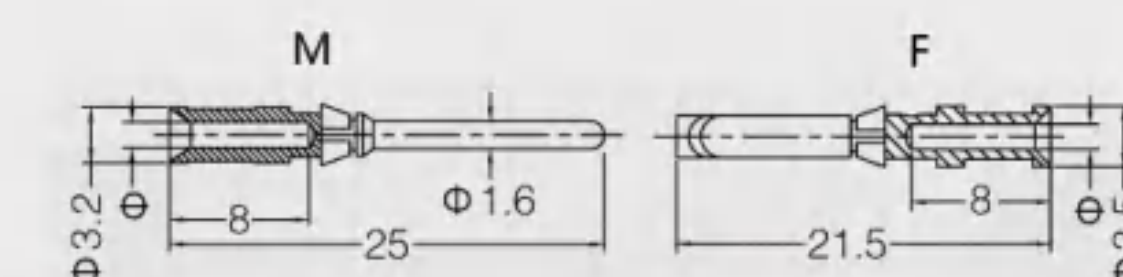


Contact removal tool



Wire gauge	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001

Application	Designation	Order No.
10A Terminal	WFT-HD01	5 000 200 00 003



Wire gauge	Φ	Stripping length
0.14-0.37mm ²	AWG 26-22	0.9
0.5mm ²	AWG 20	1.1
0.75mm ²	AWG 18	1.3
1mm ²	AWG 18	1.45
1.5mm ²	AWG 16	1.75
2.5mm ²	AWG 14	2.25

50V 5A
Insertrs



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
----------------	--------------------------------

Insertrs	Contacts
Number of contacts	9
Electrical data acc.to EN61 984	Material Copper alloy
-Rated current	5A
-Rated voltage	50V
-Rated impulse voltage	0.8kV
-Pollution degree	3
Rated voltage acc.to UL/CSA	600V
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C...+125°C
Flammability acc.to UL 94	V0
-Mating cycles	≥500

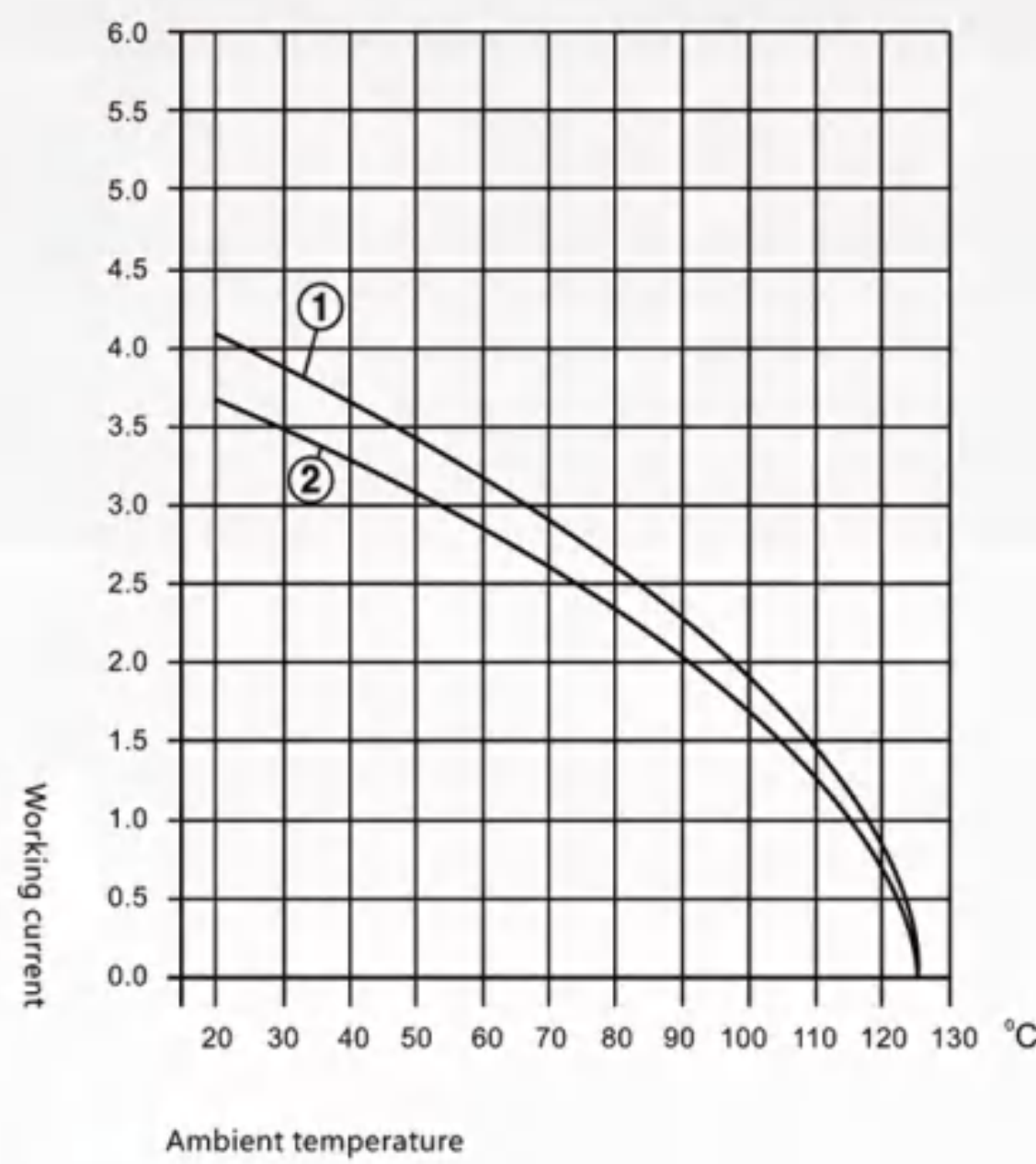
Crimp connection Order crimp contacts separately

Insert	Type	Order No.
Male	HMDS-009-MJ	3 009 070 20 101
Female	HMDS-009-FJ	3 009 070 20 102

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

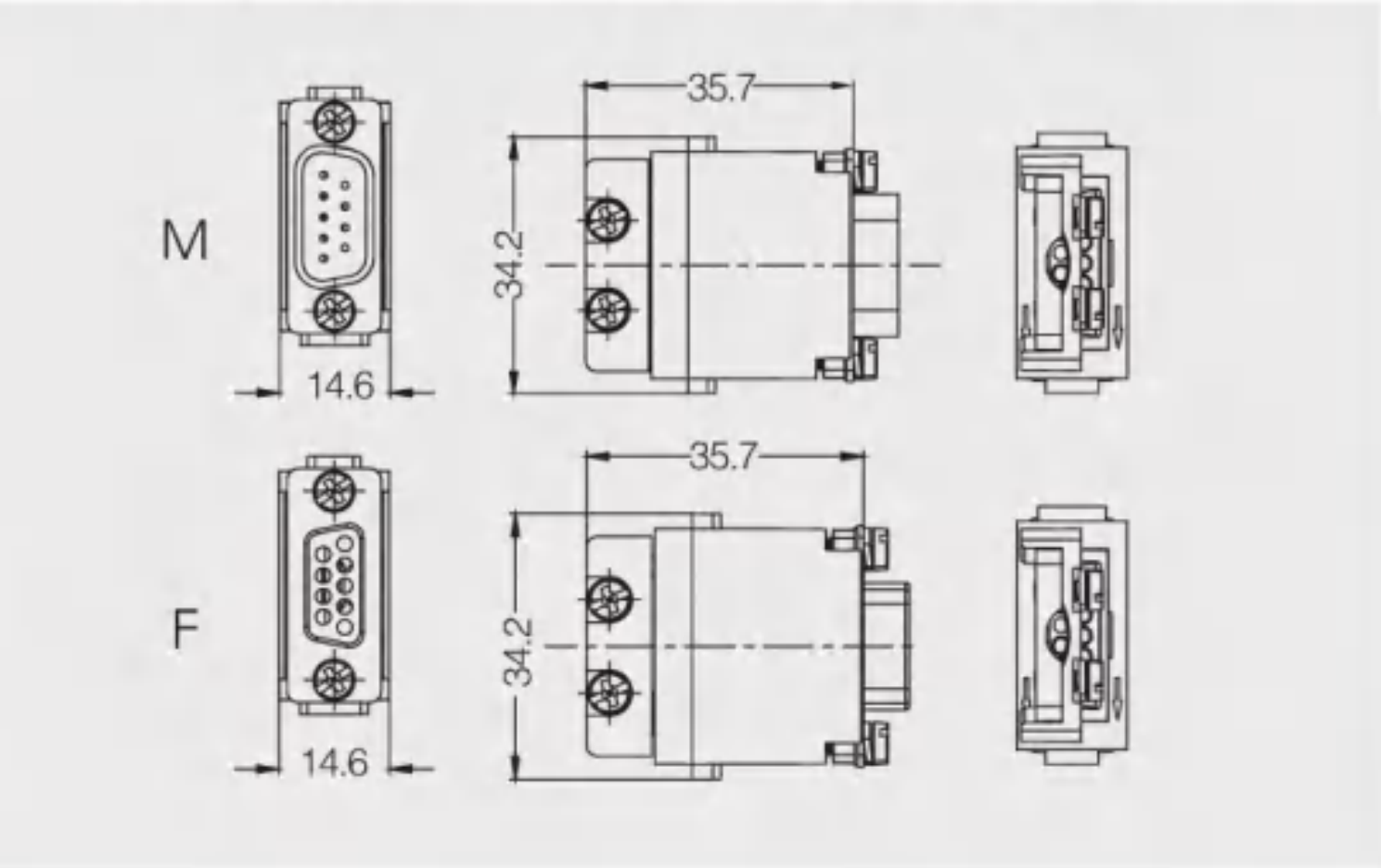


Turned contacts

H24B hood/housing with 6 modules;wire gauge:0.5mm²

Stamped contacts

H24B hood/housing with 6 modules;wire gauge:0.5mm²



HMDS

Crimp contacts

Crimp contacts 5A

Contact resistance ≤3mΩ	Male	Order No.	Female	Order No.
Silver plated	SSM-0.25	4 005 110 10 025	SSF-0.25	4 005 110 20 025
	SSM-0.33	4 005 110 10 033	SSF-0.33	4 005 110 20 033
	SSM-0.52	4 005 110 10 052	SSF-0.52	4 005 110 20 052
	SSM-0.82	4 005 110 10 082	SSF-0.82	4 005 110 20 082
Gold plated	SGM-0.25	4 005 210 10 025	SGF-0.25	4 005 210 20 025
	SGM-0.33	4 005 210 10 033	SGF-0.33	4 005 210 20 033
	SGM-0.52	4 005 210 10 052	SGF-0.52	4 005 210 20 052
	SGM-0.82	4 005 210 10 082	SGF-0.82	4 005 210 20 082

Accessories

Tool	Wire gauge	Designation	Order No.
Crimping tool	0.09-0.82mm²	WFT-LY04	5 000 100 00 005
Contact removal tool	5A Terminal	WFT-S01	5 000 200 00 004

a	b	c	d	e	f
8.10	4.0	14.8	0.64	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	1.12	1.66	14.4
8.23	4.2	14.0	1.35	1.75	13.6
Wire gauge		Stripping length			
0.09-0.25mm²		AWG28-24			
0.25-0.33mm²		AWG26-22			
0.33-0.52mm²		AWG22-20			
0.52-0.82mm²		AWG22-18			

50V 5A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
----------------	--------------------------------

Insrts		Contacts	
Number of contacts	25	Material	Copper alloy
Electrical data acc.to EN61 984		Surface	Silver plating Gilding
-Rated current	5A	Contact resistance	≤3mΩ
-Rated voltage	50V	Crimp connection	
-Rated impulse voltage	0.8kV	-mm ²	0.09-0.82mm ²
-Pollution degree	3	-Wire gauge	
		-AWG	28-18
Rated voltage acc.to UL/CSA	600V		
Insulation resistance	≥10 ¹⁰ Ω		
Material	Polycarbonate		
Limiting temperatures	-40°C...+125°C		
Flammability acc.to UL 94	V0		
-Mating cycles	≥500		

Crimp connection Order crimp contacts separately

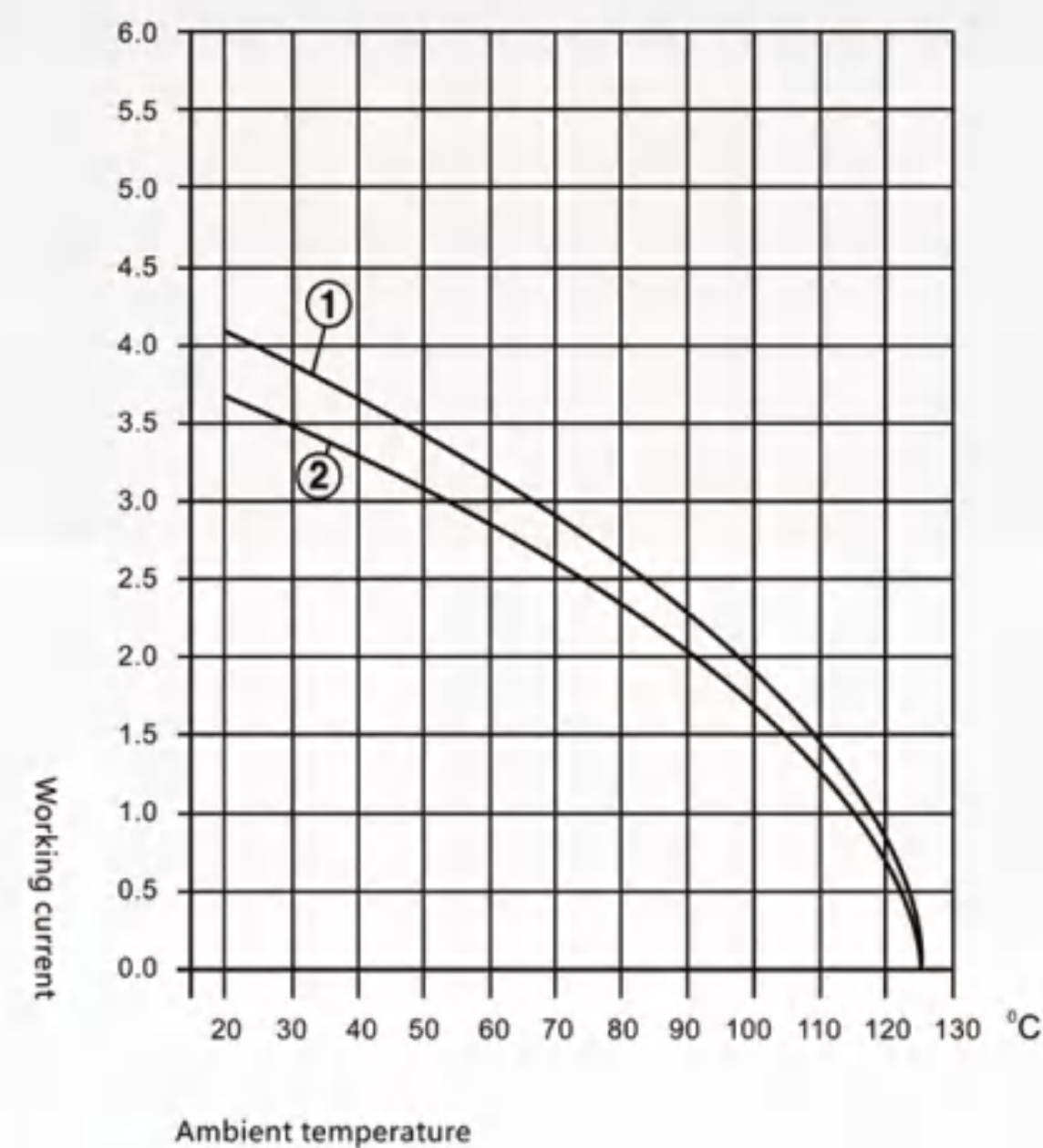
Insert	Type	Order No.
Male	HMDS-025-MC	3 025 070 20 101
Female	HMDS-025-FC	3 025 070 20 102



Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



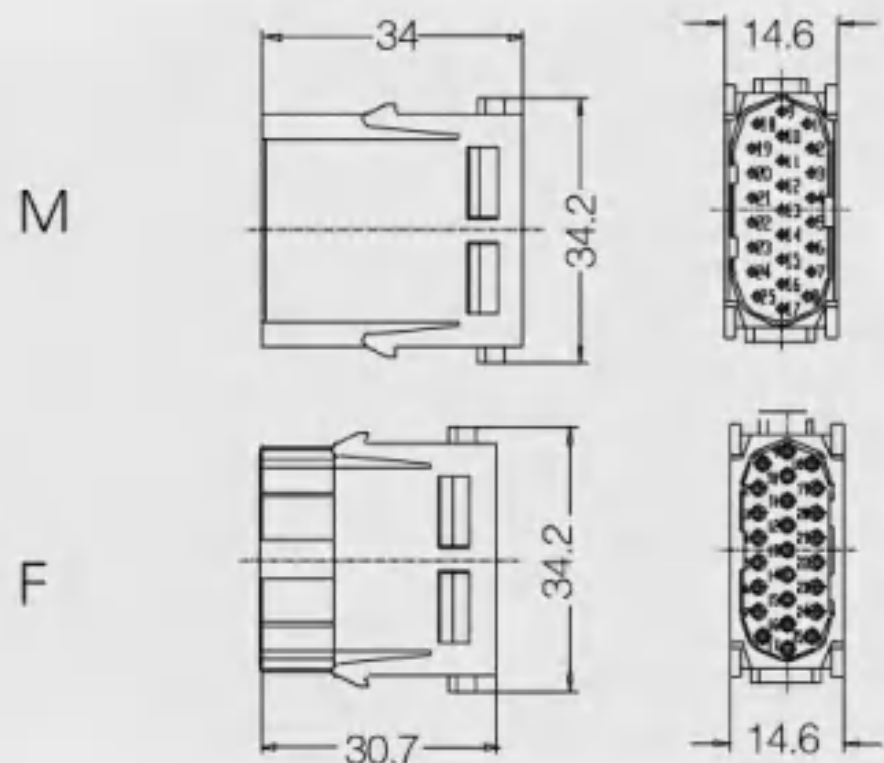
Ambient temperature

Turned contacts

H24B hood/housing with 6 modules;wire gauge:0.5mm²

Stamped contacts

H24B hood/housing with 6 modules;wire gauge:0.5mm²



Crimp contacts

Crimp contacts 5A

Contact resistance ≤3mΩ		Male	Order No.	Female	Order No.
	Silver plated	SSM-0.25	4 005 110 10 025	SSF-0.25	4 005 110 20 025
		SSM-0.33	4 005 110 10 033	SSF-0.33	4 005 110 20 033
		SSM-0.52	4 005 110 10 052	SSF-0.52	4 005 110 20 052
		SSM-0.82	4 005 110 10 082	SSF-0.82	4 005 110 20 082
	Gold plated	SGM-0.25	4 005 210 10 025	SGF-0.25	4 005 210 20 025
		SGM-0.33	4 005 210 10 033	SGF-0.33	4 005 210 20 033
		SGM-0.52	4 005 210 10 052	SGF-0.52	4 005 210 20 052
		SGM-0.82	4 005 210 10 082	SGF-0.82	4 005 210 20 082

Accessories

Tool	Wire gauge	Designation	Order No.
Crimping tool	0.09-0.82mm ²	WFT-LY04	5 000 100 00 005
Contact removal tool			
	Application	Designation	Order No.
	5A Terminal	WFT-S01	5 000 200 00 004

a	b	c	d	e	f
8.10	4.0	14.8	0.64	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	1.12	1.66	14.4
8.23	4.2	14.0	1.35	1.75	13.6

Wire gauge		Stripping length
0.09-0.25mm ²	AWG28-24	5 mm
0.25-0.33mm ²	AWG26-22	5 mm
0.33-0.52mm ²	AWG22-20	5 mm
0.52-0.82mm ²	AWG22-18	5 mm

50V 1A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664
	DIN EN 61 984

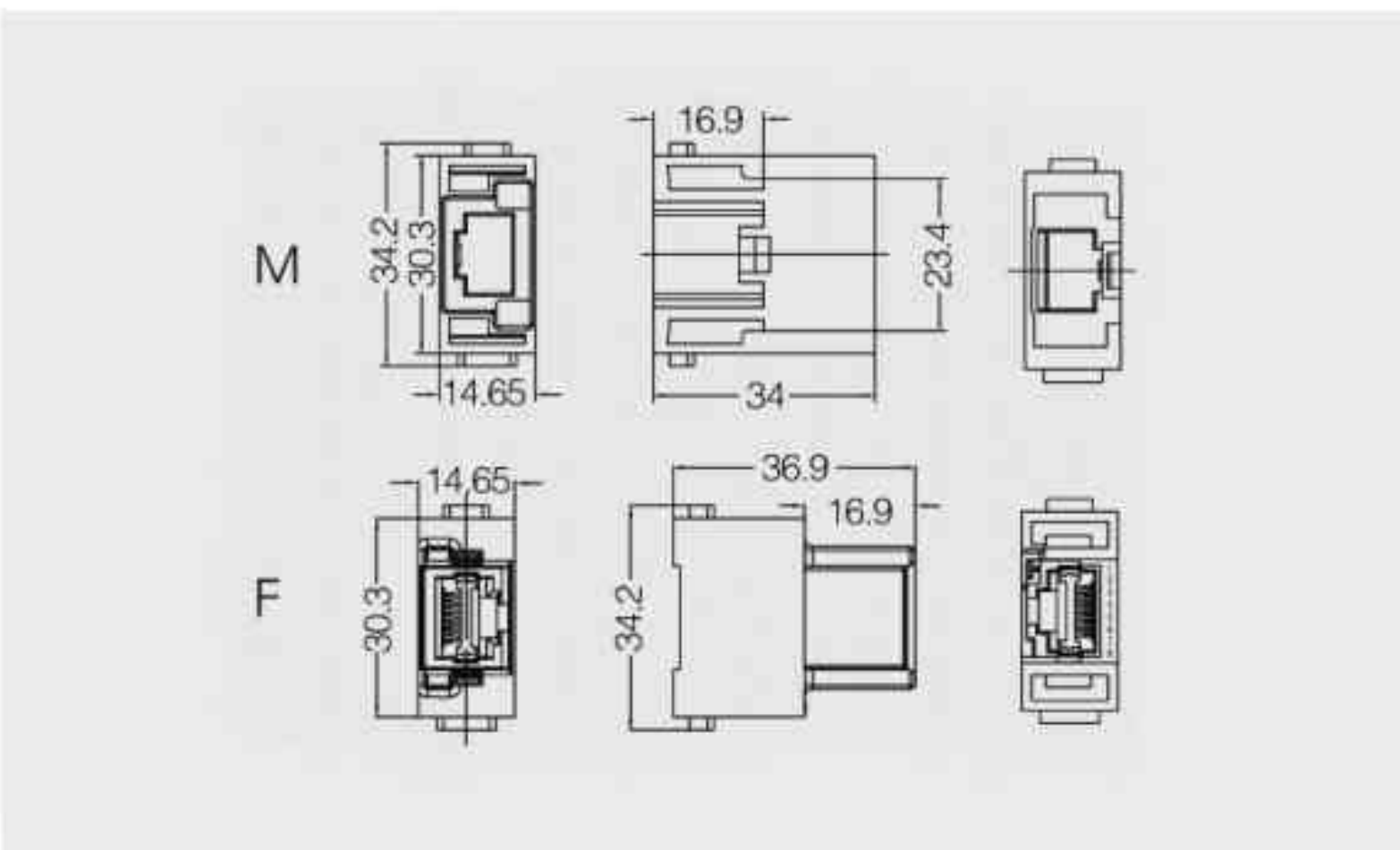
Inesrts

Number of contacts	8
Electrical dataacc.to EN61 984	
-Rated current	1A
-Rated voltage	50V
-Rated impulse voltage	0.8kV
-Pollution degree	3
Rated voltage acc.to UL/CSA	600V
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C...+125°C
Flammability acc.to UL 94	V0
-Mating cycles	≥500

Crimp terminal Order crimp contacts separately



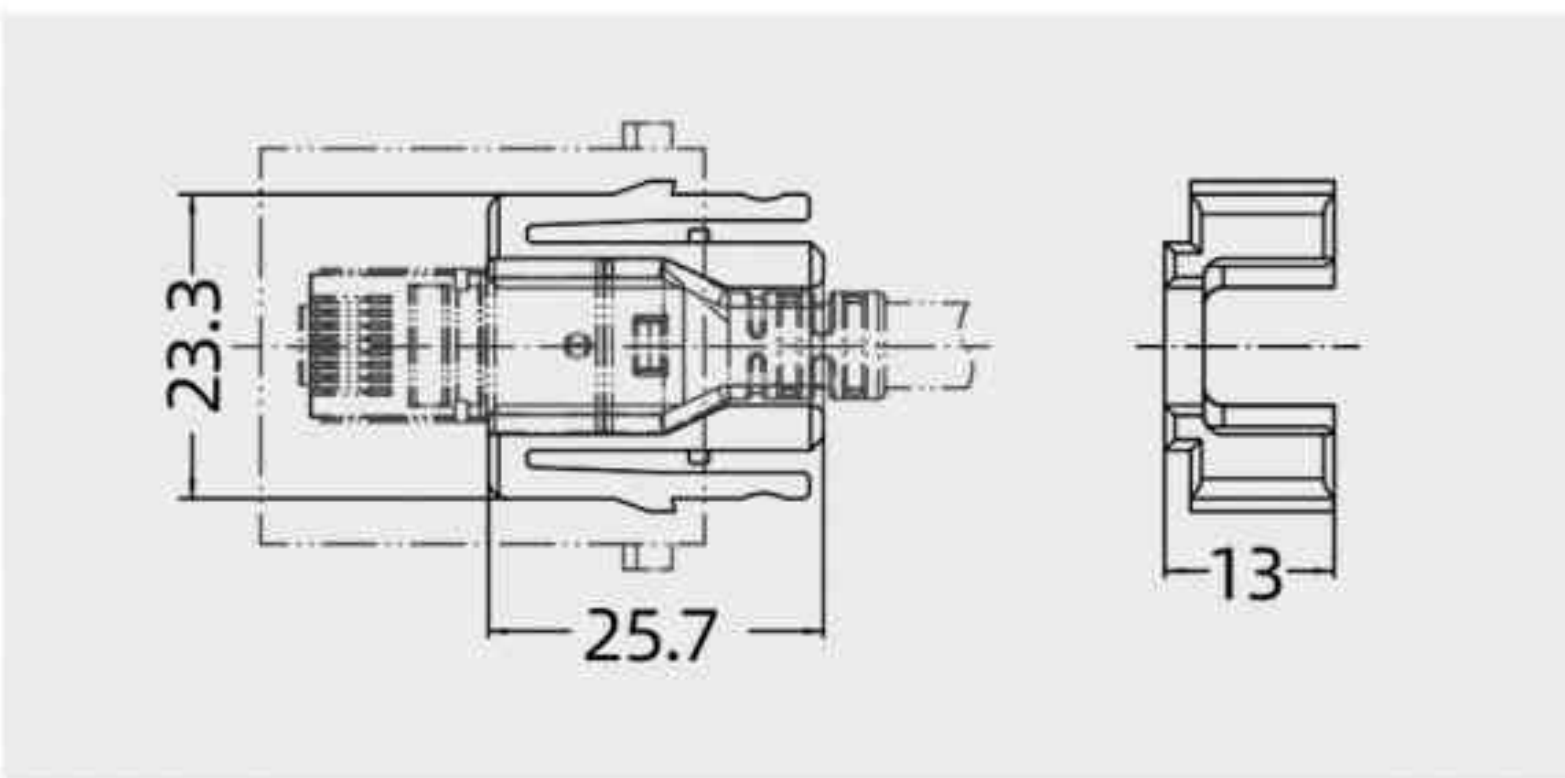
Insert	Type	Order No.
Male	HM-RJ45-M	3 045 070 40 101
Female	HM-RJ45-F	3 045 070 40 102



HM

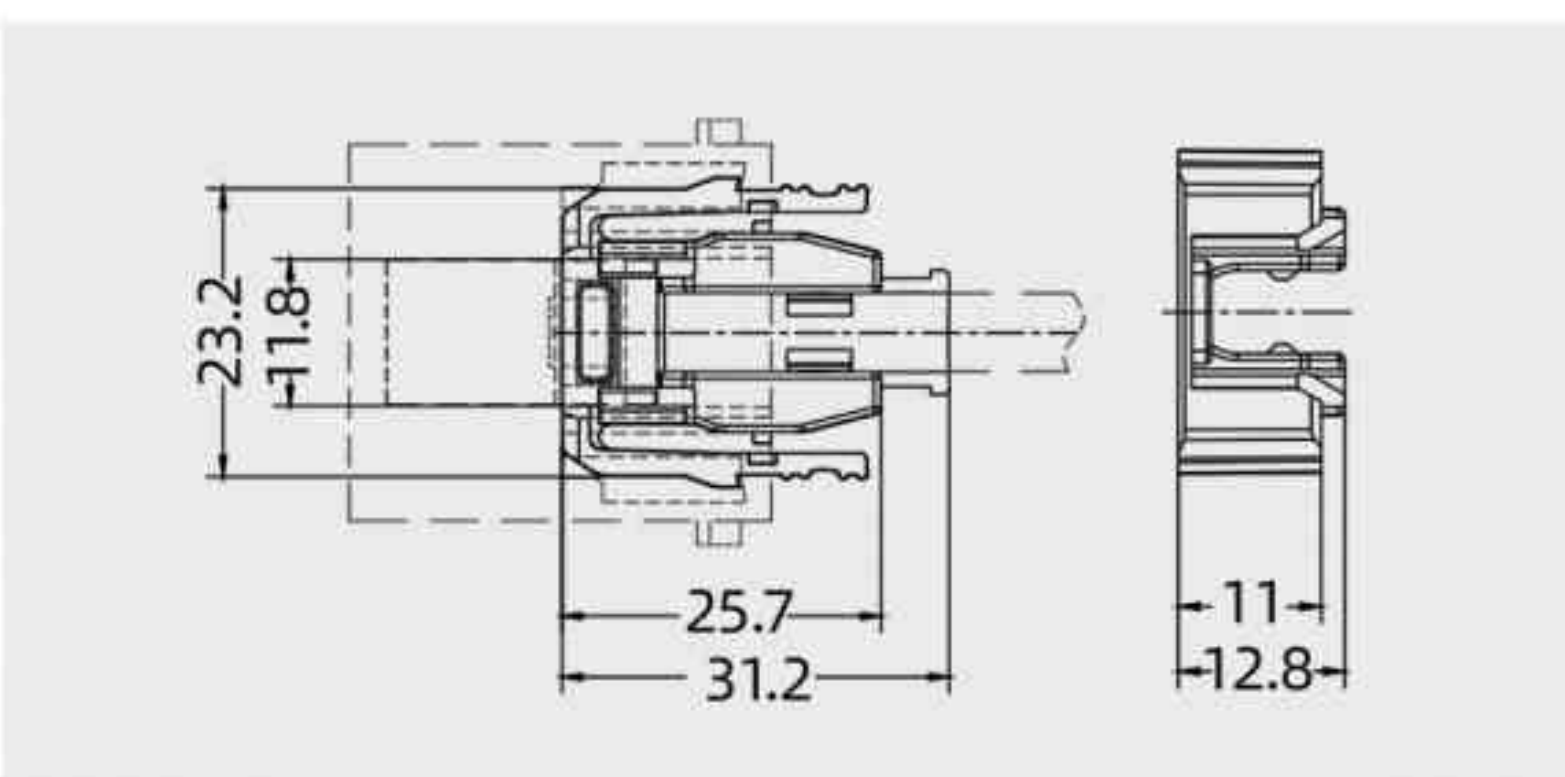
Adapter

Male	Designation	Order No.
For standard cable go with male insert	HM-RJ45-APT	3 045 070 40 002

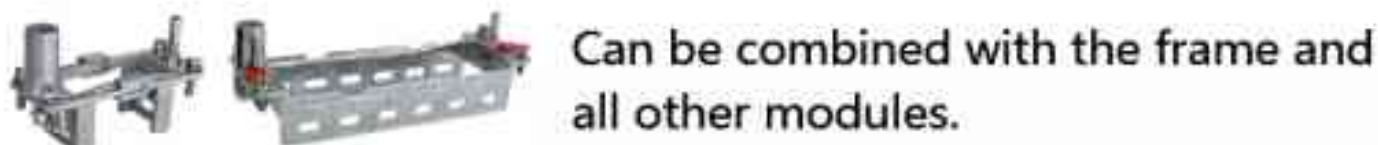


Adapter

Male	Designation	Order No.
For standard cable go with male insert	HM-RJ45-APT/2	3 045 070 40 001



Inesrts



Tenchnical characteristics

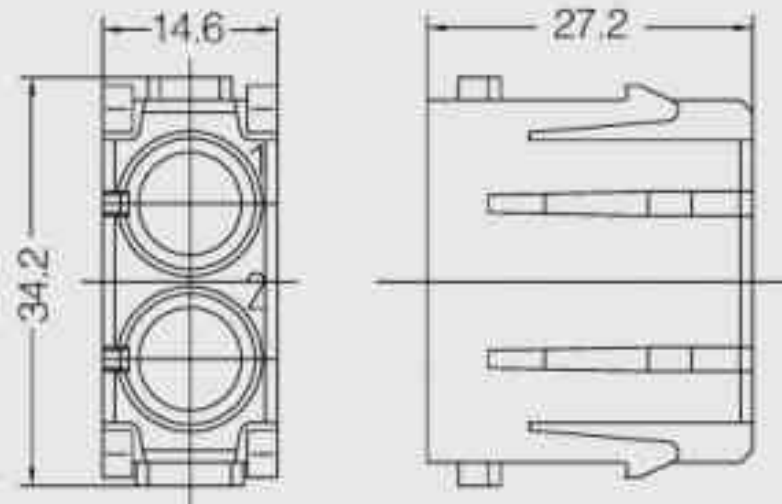
Specifications					
Specifications		DIN EN 60 664 DIN EN 61 984			
Inesrts			Contacts		
Number of contacts		2	Material		Polyoxymethylene
			Colour		Black
Material		Polycarbonate	Soft tube connect		
Limiting temperatures		-40°C...+80°C	-Internal diameter(ID)		6mm/1/4"
Flammability acc.to UL 94		V0	Working pressure		Maximum 8 bar/166 psi
-Mating cycles		≥500	Sealing		
			-Material		FPM
			Shut off valve		
			-Material		Polypropylene

Pneumatic module

HMP



Description	Type	Order No.
Two-hole pneumatic module	HMP-002	3 002 000 00 100

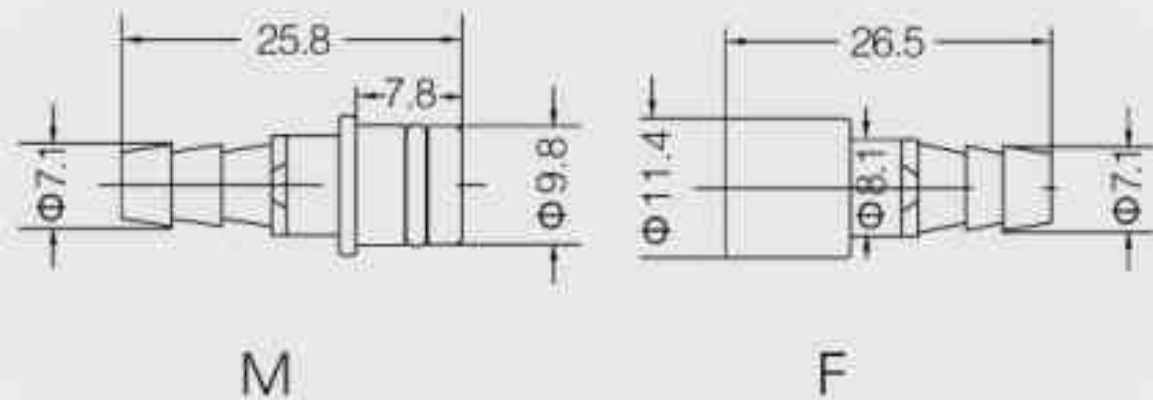


Contacts

Pneumatic contacts for tubeinternal diameter(ID)



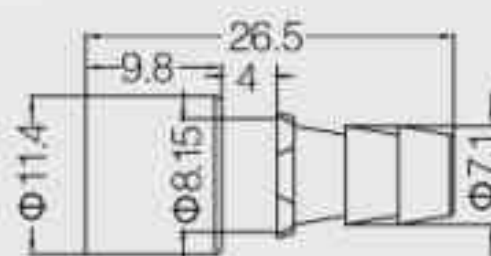
Description	Category	ID	Designation	Order No.
Without shut off	Male	6.0mm	PCM-6.0	4 000 000 10 600
Without shut off	Female	6.0mm	PCF-6.0	4 000 000 20 600



Pneumatic contacts for tubeinternal diameter(ID)



Description	Category	ID	Designation	Order No.
With shut off	Female	6.0mm	PCFS-6.0	4 000 300 20 600



Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664
	DIN EN 61 984

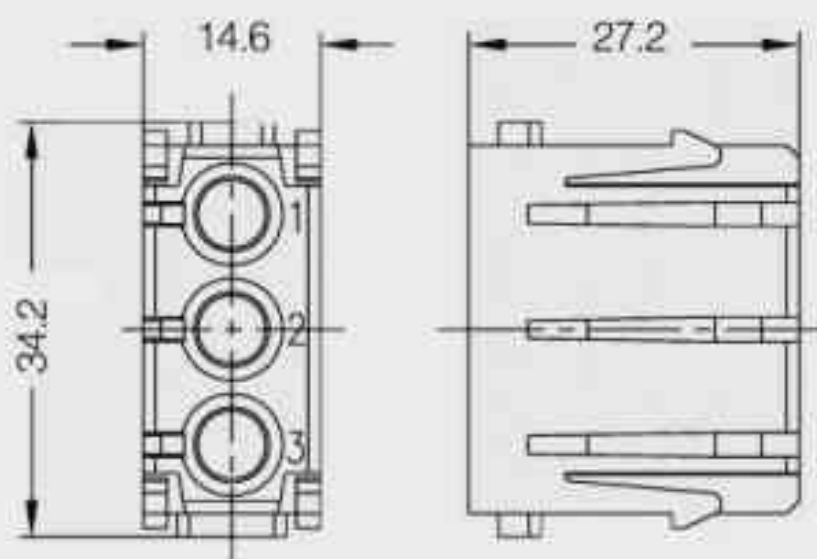
Inesrts		Contacts	
Number of contacts	3	Material	Polyoxymethylene
		Colour	Black
Material	Polycarbonate	Tube termination	
Limiting temperatures	-40°C...+80°C	-Internal diameter(ID)	1.6mm/1/16" 3.0mm 4.0mm/1/8"
Flammability acc.to UL 94	V0	Working pressure	Maximum 8 bar/116 psi
-Mating cycles	≥500	Sealing	
		-Material	FPM
		Shut off valve	
		-Material	Polypropylene

Pneumatic module



Description	Type	Order No.
Three-hole pneumatic module	HMP-003	3 003 000 00 100

HMP

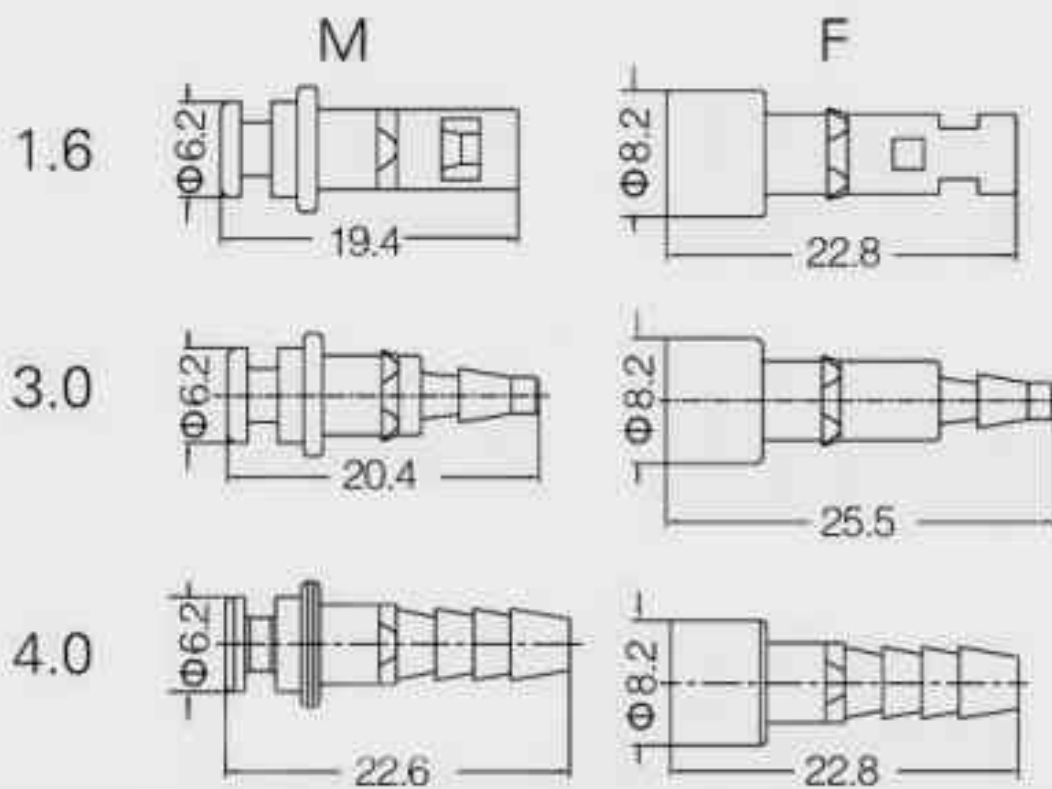


Contacts

Pneumatic contacts for tubeinternal diameter(ID)



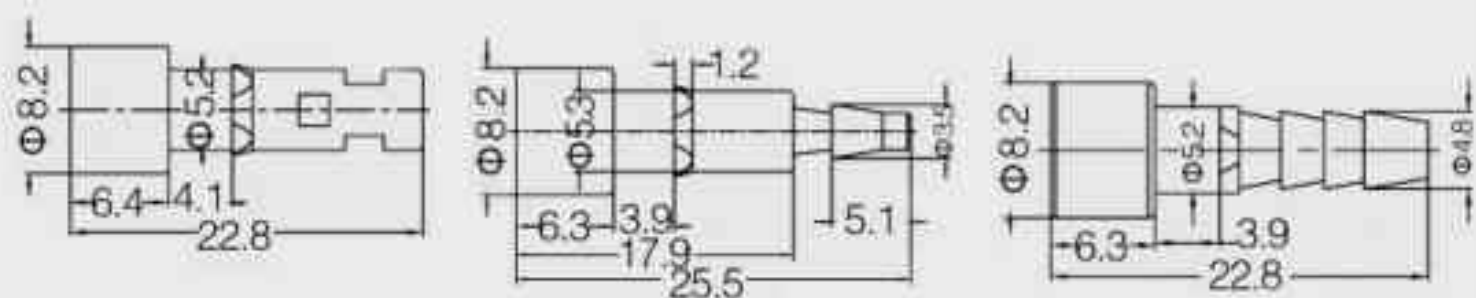
Description	Category	ID	Designation	Order No.
Without shut off	Male	1.6mm	PCM-1.6	4 000 000 10 160
		3.0mm	PCM-3.0	4 000 000 10 300
		4.0mm	PCM-4.0	4 000 000 10 400
Without shut off	Female	1.6mm	PCF-1.6	4 000 000 20 160
		3.0mm	PCF-3.0	4 000 000 20 300
		4.0mm	PCF-4.0	4 000 000 20 400



Pneumatic contacts for tubeinternal diameter(ID)



Description	Category	ID	Designation	Order No.
With shut off	Female	1.6mm	PCFS-1.6	4 000 300 20 160
		3.0mm	PCFS-3.0	4 000 300 20 300
		4.0mm	PCFS-4.0	4 000 300 20 400



Insertr



Can be combined with the frame and all other modules.

Technical characteristics

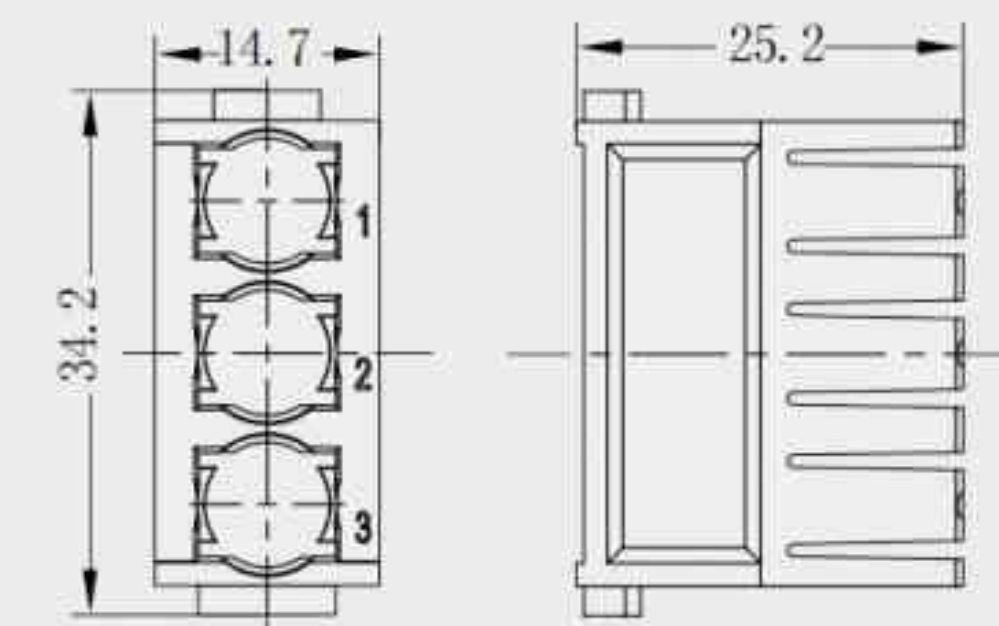
Specifications

Specifications	DIN EN 60 664
	DIN EN 61 984

Insertr		Contacts	
Number of contacts	3	Material	Copper
		Colour	Black
Material	Polycarbonate	Tube termination	
Limiting temperatures	-40°C...+80°C	-Outer diameter	3.0mm/4.0mm/6.0mm
		-Inner diameter	6.0mm
Flammability acc.to UL 94		Working pressure	Maximum 10bar/145psi
-Mating cycles		Sealing	
		-Material	FPM
		Shut off valve	
		-Material	Polypropylene

Pneumatic module

Description	Type	Order No.
Three-hole pneumatic module	HMP-003-V2	3 000 000 00 001



Contacts

For quick insertion of the outer diameter (OD) of the trachea

Description	Category	OD	Designation	Order No.
Without shut off	Male	3.0mm	MPCM-OD3.0	4 001 000 10 300
		4.0mm	MPCM-OD4.0	4 001 000 10 400
		6.0mm	MPCM-OD6.0	4 001 000 10 600
Without shut off	Female	3.0mm	MPCF-OD3.0	4 001 000 20 300
		4.0mm	MPCF-OD4.0	4 001 000 20 400
		6.0mm	MPCF-OD6.0	4 001 000 20 600



OD	ΦA	B	ΦC	D
3.0	8	43.7	8	48
4.0	9.8	43.9	9.8	50.2
6.0	9.8	45.9	9.8	52.2

For quick insertion of the outer diameter (OD) of the trachea

Description	Category	OD	Designation	Order No.
With shut off	Female	3.0mm	MPCFS-OD3.0	4 001 300 20 300
		4.0mm	MPCFS-OD4.0	4 001 300 20 400
		6.0mm	MPCFS-OD6.0	4 001 300 20 600



OD	ΦA	B	C	D
3.0	8	7.1	34.8	48
4.0	9.8	7.1	36.8	50.2
6.0	9.8	9.1	36.8	52.2

Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

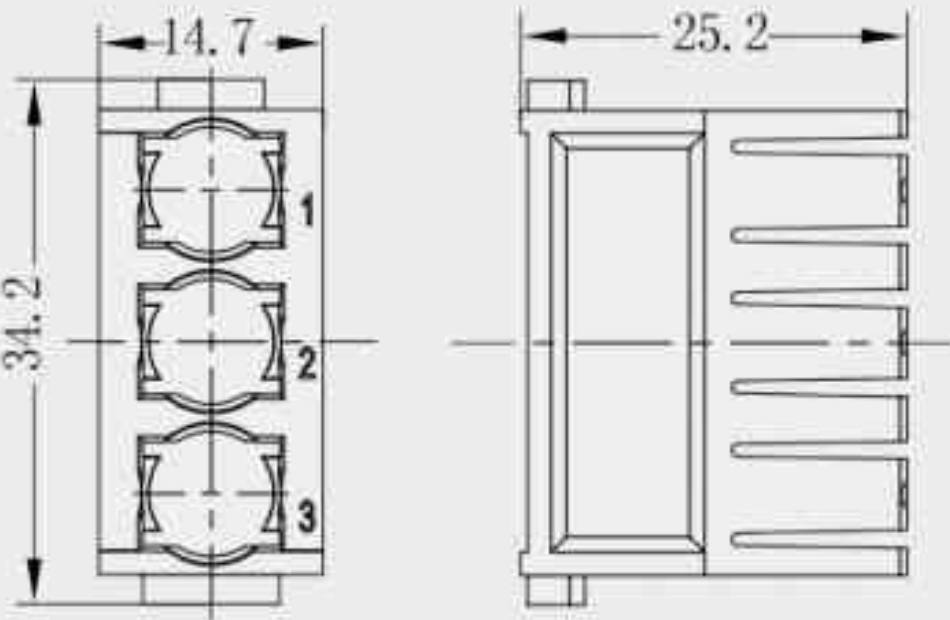
Specifications	DIN EN 60 664 DIN EN 61 984
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Inesrts		Contacts	
Number of contacts	3	Material	Copper
		Colour	Nickel plating
Material	Polycarbonate	Tube termination	
Limiting temperatures	-40°C...+80°C	-Outer diameter	3.0mm/4.0mm/6.0mm
		-Inner diameter	6.0mm
Flammability acc.to UL 94	V0	Working pressure	Maximum 10bar/145psi
-Mating cycles	≥500	Sealing	
		-Material	FPM
		Shut off valve	
		-Material	Polypropylene

Pneumatic module



Description	Type	Order No.
Three-hole pneumatic module	HMP-003-V2	3 000 000 00 001



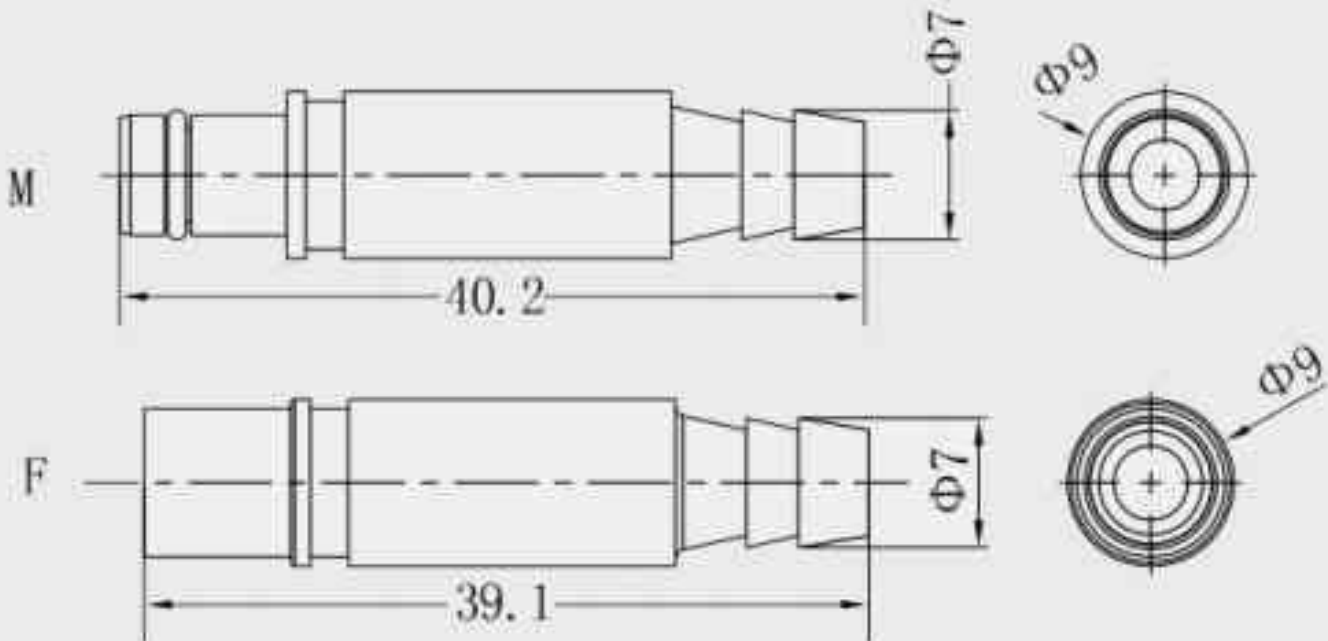
HMP

Contacts

Needle - used for direct insertion into the inner diameter (ID) of the trachea



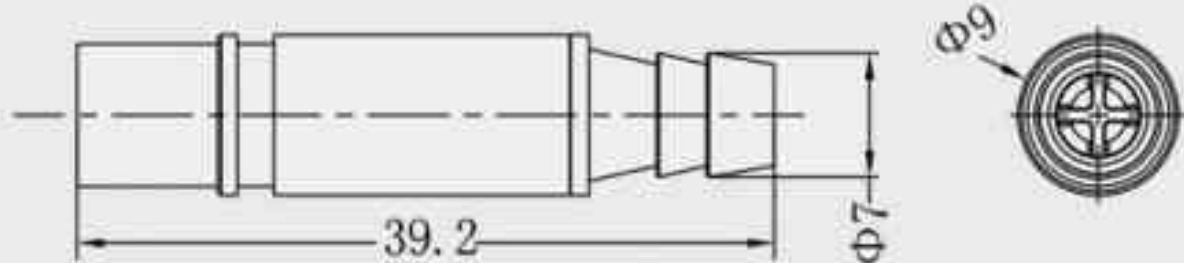
Description	Category	ID	Designation	Order No.
Without shut off	Male	3.0mm	MPCM-ID3.0	4 001 000 10 301
		4.0mm	MPCM-ID4.0	4 001 000 10 401
		6.0mm	MPCM-ID6.0	4 001 000 10 501
Without shut off	Female	3.0mm	MPCF-ID3.0	4 001 000 20 301
		4.0mm	MPCF-ID4.0	4 001 000 20 401
		6.0mm	MPCF-ID6.0	4 001 000 20 601



Needle - used for direct insertion into the inner diameter (ID) of the trachea



Description	Category	ID	Designation	Order No.
With shut off	Female	3.0mm	MPCFS-ID3.0	4 001 300 20 301
		4.0mm	MPCFS-ID4.0	4 001 300 20 401
		6.0mm	MPCFS-ID6.0	4 001 300 20 601



50V 5A
Insrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

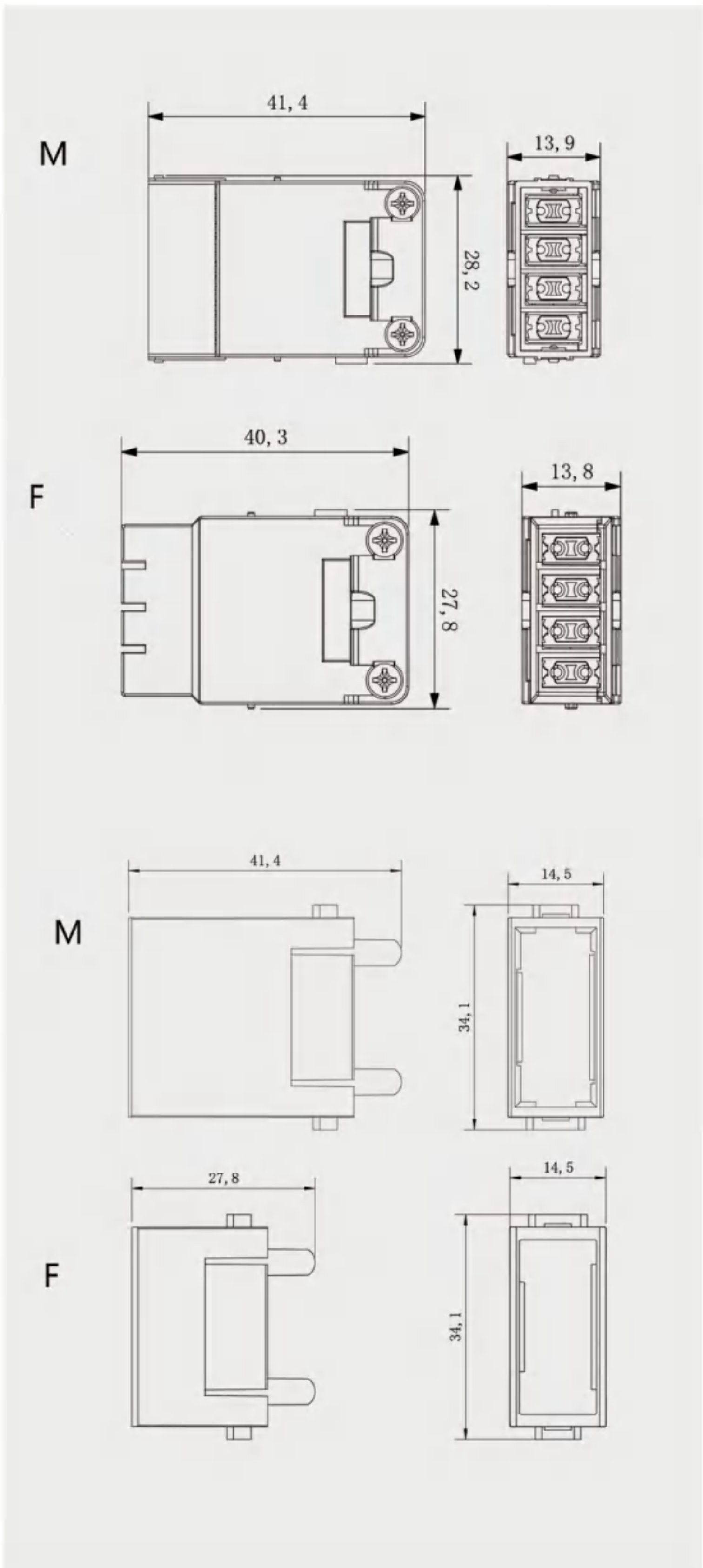
Specifications	DIN EN 60 664 DIN EN 61 984
----------------	--------------------------------

Insrts		Adapter Module	
Number of contacts	8+Block	Number of contacts	1
Electrical data acc.to EN61 984		Insulation resistance	
-Rated current	5A	Material	Polycarbonate
-Rated voltage	50V	Limiting temperatures	-40°C...+125°C
-Rated impulse voltage	0.8kV	Flammability acc.to UL 94 V0	
-Pollution degree	3	-Mating cycles	≥500
Surface	Passivation	Contacts	
Insulation resistance	≥10 ¹⁰ Ω	Surface	Gilding
Limiting temperatures	-40°C...+85°C	Contact resistance	≤3mΩ
Flammability acc.to UL 94	V0	Crimp connection	0.09-0.82mm ²
-Mating cycles	≥500	-AWG	28-18
Materials	Insulator Polycarbonate External conductor Zinc alloy		

Crimp connection Order crimp contacts separately It should be used in conjunction with cable clamps. Refer to page 98.

Insert		Type	Order No.
Male		HMG-008-MC	3 008 160 91 101
Female		HMG-008-FC	3 008 160 91 102

Adapter Module		Type	Order No.
Male		HMM.P-M	3 000 150 86 101
Female		HMM.P-F	3 000 150 86 102



HMG

Crimp contacts

Crimp contacts 5A

Contact resistance ≤3mΩ

	Male	Order No.	Female	Order No.
	SGM-0.25	4 005 210 10 025	SGF-0.25	4 005 210 20 025
	SGM-0.33	4 005 210 10 033	SGF-0.33	4 005 210 20 033
	SGM-0.52	4 005 210 10 052	SGF-0.52	4 005 210 20 052
	SGM-0.82	4 005 210 10 082	SGF-0.82	4 005 210 20 082
	Gold plated			

Accessories

Tool	Wire gauge	Designation	Order No.
Crimping tool	0.09-0.82mm ²	WFT-LY04	5 000 100 00 005



Tool	Application	Designation	Order No.
Contact removal tool	5A Terminal	WFT-S01	5 000 200 00 004



Technical drawings of two types of wire terminals, M and F, showing dimensions a, b, c, d, e, and f.

Terminal M dimensions:

- a: Length of the main body
- b: Length of the terminal head
- c: Length of the terminal head
- d: Diameter of the terminal head
- e: Diameter of the main body
- f: Total length

Terminal F dimensions:

- a: Length of the main body
- b: Length of the terminal head
- c: Length of the terminal head
- d: Diameter of the terminal head
- e: Diameter of the main body
- f: Total length

a	b	c	d	e	f
8.10	4.0	14.8	0.64	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	1.12	1.66	14.4
8.23	4.2	14.0	1.35	1.75	13.6

Wire gauge		Stripping length
0.09-0.25mm ²	AWG28-24	5 mm
0.25-0.33mm ²	AWG26-22	5 mm
0.33-0.52mm ²	AWG22-20	5 mm
0.52-0.82mm ²	AWG22-18	5 mm

50V 10A
Inesrts



Can be combined with the frame and all other modules.

Tenchnical characteristics

Specifications

Specifications	DIN EN 60 664 DIN EN 61 984
----------------	--------------------------------

Inesrts		Adapter Module	
Number of contacts	2x4+Block	Number of contacts	1
Electrical data acc.to EN61 984		Insulation resistance	
-Rated current	10A	Material	Polycarbonate
-Rated voltage	50V	Limiting temperatures	-40°C...+125°C
-Rated impulse voltage	0.8kV	Flammability acc.to UL 94	V0
-Pollution degree	3	-Mating cycles	≥500
Surface	Passivation	Contacts	
Insulation resistance	≥10 Ω	Surface	Gilding
Limiting temperatures	-40°C...+85°C	Contact resistance	≤3mΩ
Flammability acc.to UL 94	V0	Crimp connection	0.14-2.5mm ²
-Mating cycles	≥500	-AWG	26-14
Materials	Insulator	Polycarbonate	
External conductor		Zinc alloy	

Crimp connection Order crimp contacts separately It should be used in conjunction with cable clamps. Refer to page 98.

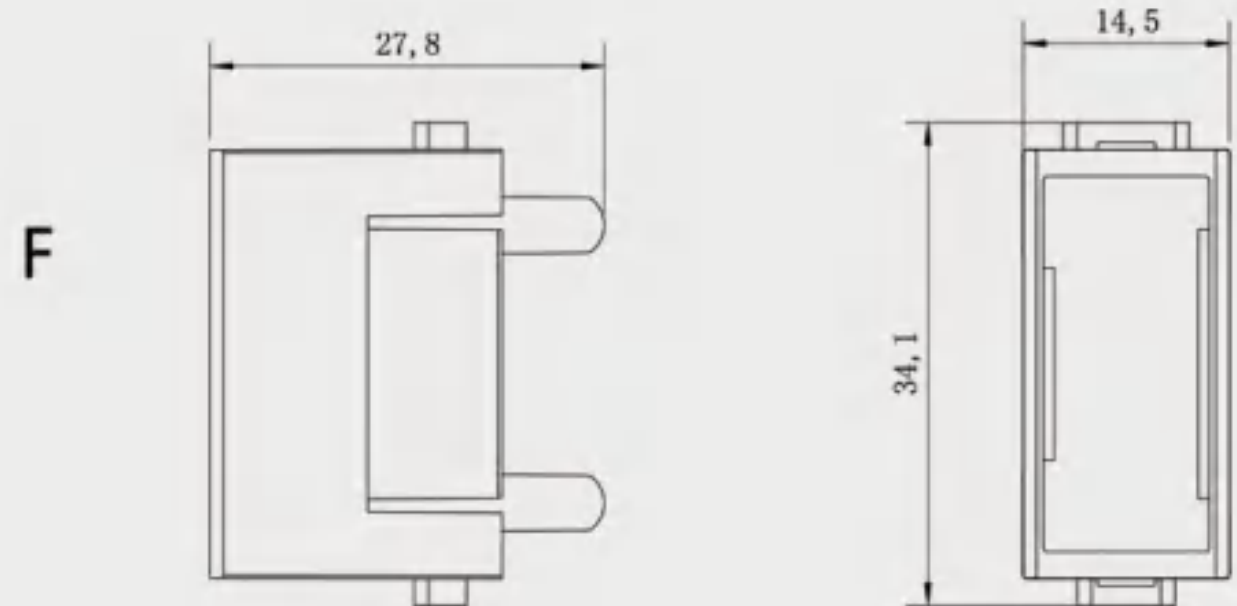
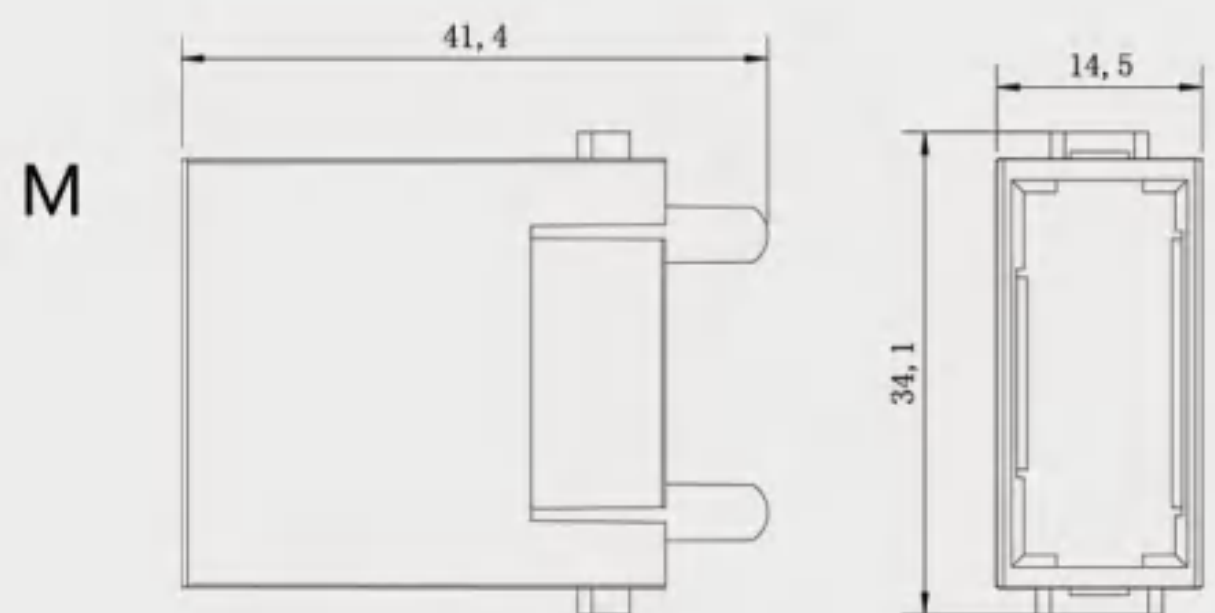
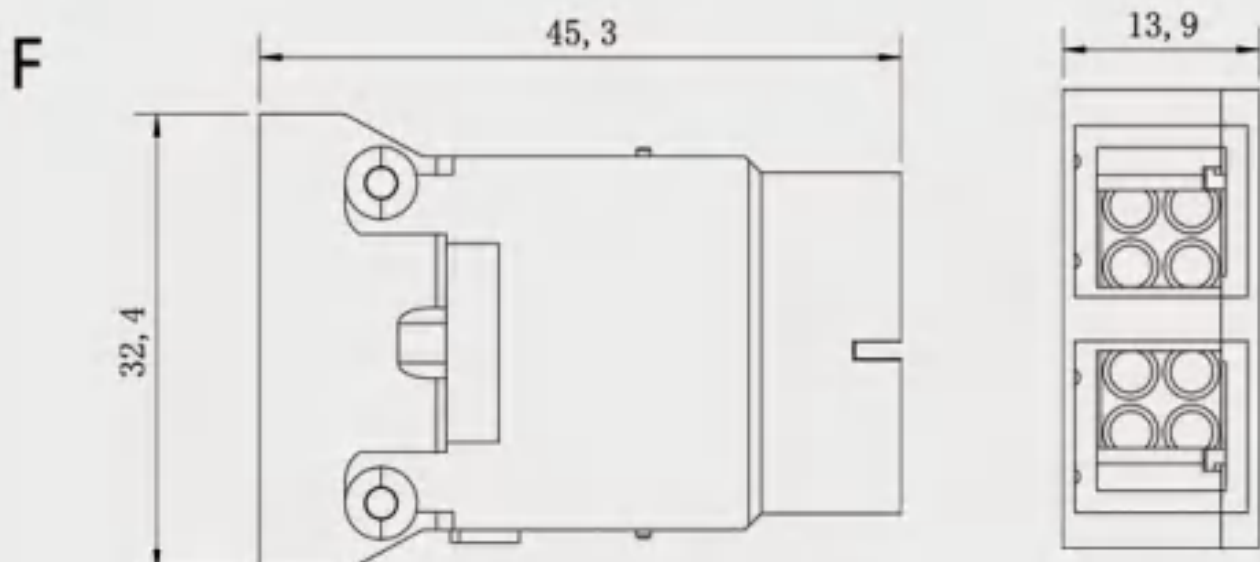
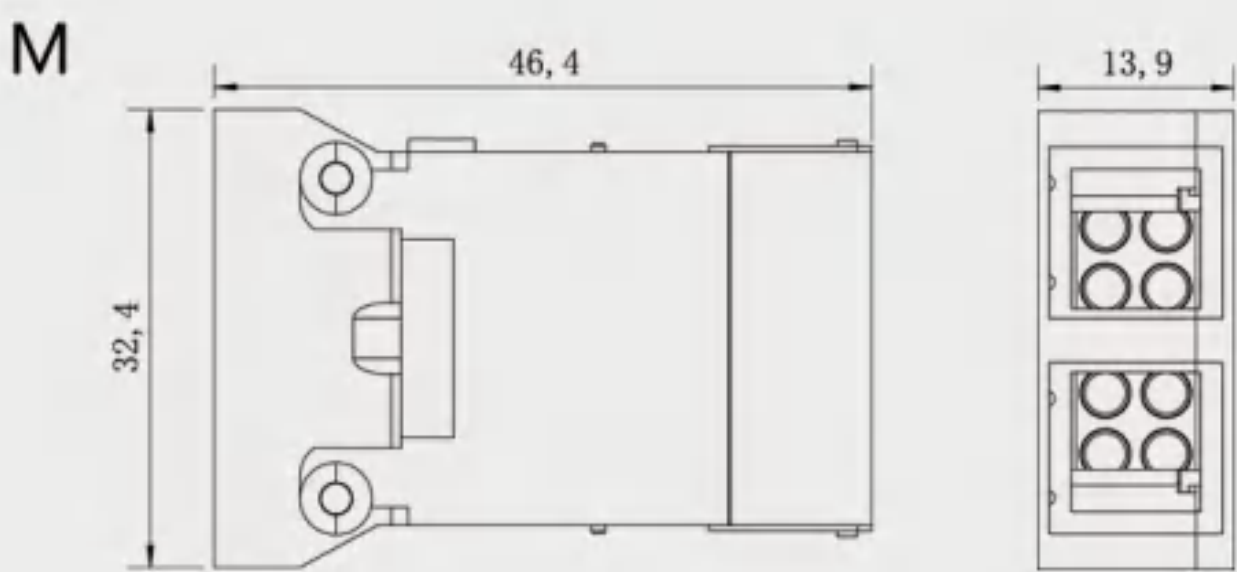


Insert	Type	Order No.
Male	HMM-008-MC	3 008 150 90 101
Female	HMM-008-FC	3 008 150 90 102

Adapter Module



Insert	Type	Order No.
Male	HMM.P-M	3 000 150 86 101
Female	HMM.P-F	3 000 150 86 102



HMD

Crimp contacts

Crimp contacts 10A

Contact resistance ≤3mΩ



Gold plated

Male	Order No.	Female	Order No.
DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
DGM-2.5	4 010 210 10 250	DGF-2.5	4 010 210 20 250

Accessories

Tool

Crimping tool

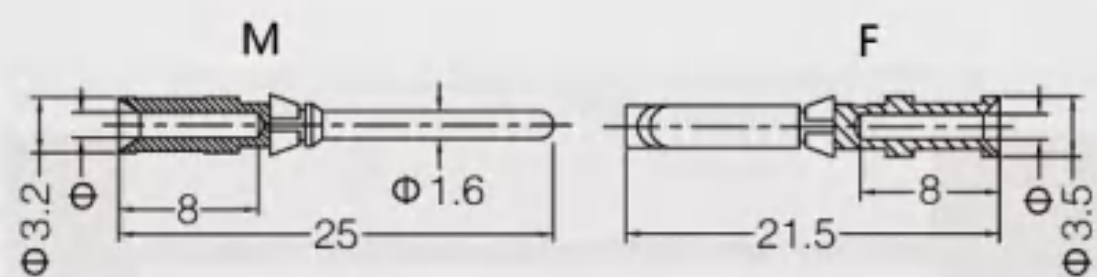


Contact removal tool



Wire gauge	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001

Application	Designation	Order No.
10A Terminal	WFT-HD01	5 000 200 00 003

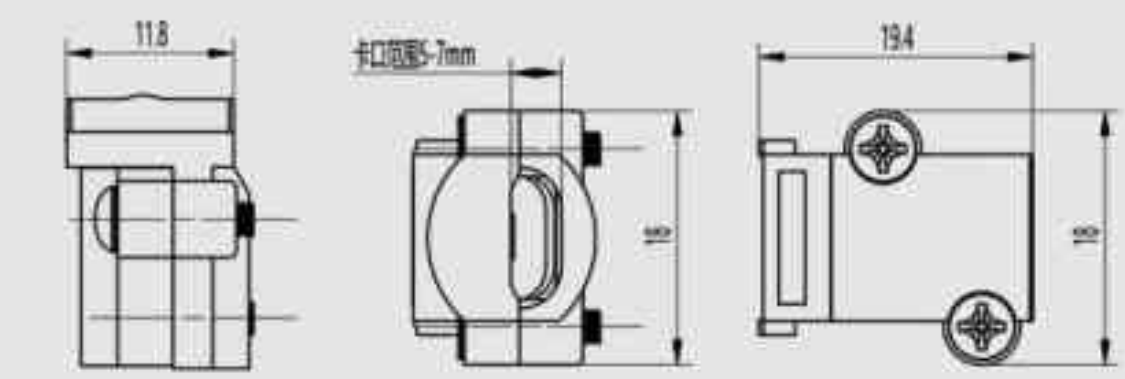
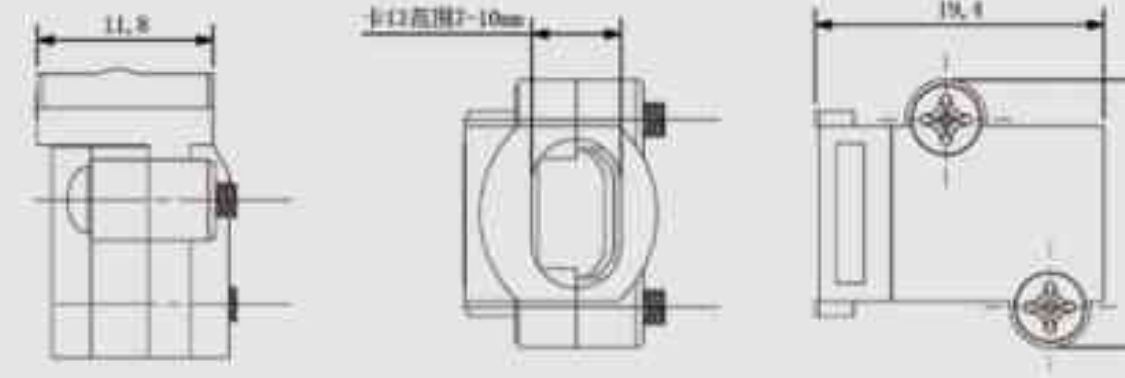
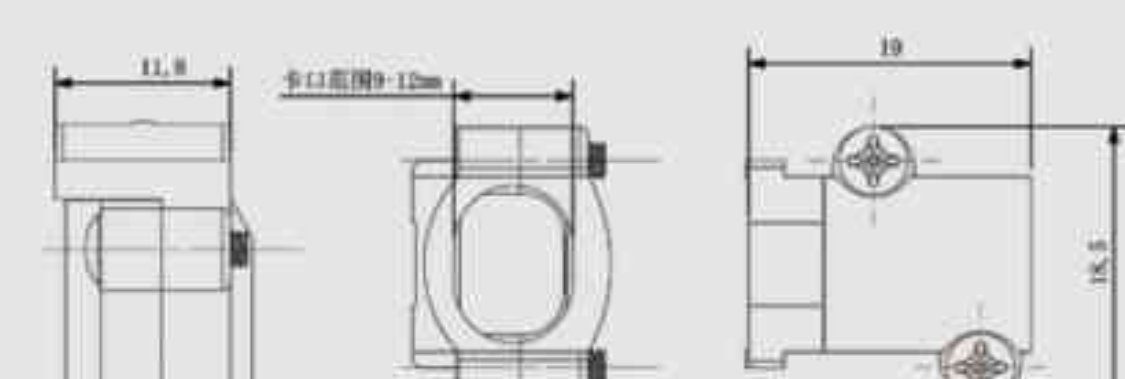


Wire gauge	Φ	Stripping length
0.14-0.37mm ²	0.9	8 mm
0.5mm ²	1.1	8 mm
0.75mm ²	1.3	8 mm
1mm ²	1.45	8 mm
1.5mm ²	1.75	8 mm
2.5mm ²	2.25	6 mm

Technical Characteristics

Material	Polycarbonate
Surface	Passivation
Bayonet range	5-12

Frame construction version

Identification	Type	Order No.	Drawing	Dimensions mm
Compatible with gigabit and hundred-megabit chips  NEW	HM-C5-7(5-7)	3 014 160 91 102		
Compatible with gigabit and hundred-megabit chips  NEW	HM-C7-10(7-10)	3 014 160 91 101		
Compatible with gigabit chips  NEW	HM-C9-12(9-12)	3 014 160 91 103		

HM

Q-coax Electromagnetic Shielding module

EMC-004、EMC-008 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inserts

Number of contacts	1,2
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Limiting temperatures	-40°C~+125°C
Flammability acc.to UL94	V0
Mating cycles	≥ 500

Coax connector

Number of contacts	
-Q-Coax	4 + Shielding
-High-density Q-Coax	8 + Shielding
Electrical data acc.to EN61 984	
-Q-Coax	10A 50V 0.8KV 3
-High-density Q-Coax	5A 50V 0.8KV 3
Rated current	10/5A
Rated voltage	50V
Rated impulse voltage	0.8KV
Pollution resistance	3
Material	
-Insulator	Polycarbonate
-Outer conductor	Zinc alloy
Contact resistance	$\leq 4m\Omega$
Limiting temperatures	-40°C~+85°C
Flammability acc.to UL94	V0
Surface of conductor	Nickel
Cable diameter	3-9.5mm

Crimp contacts(5A)

Material	Copper alloy
Surface treatment	Gilding
Contact resistance	$\leq 3m\Omega$
Crimp connection	
-mm ²	0.09-0.52mm ²
-AWG	28-20

Crimp contacts(10A)

Material	Copper alloy
Surface treatment	Gilding
Contact resistance	$\leq 3m\Omega$
Crimp connection	
-mm ²	0.14-2.5mm ²
-AWG	26-14

HM

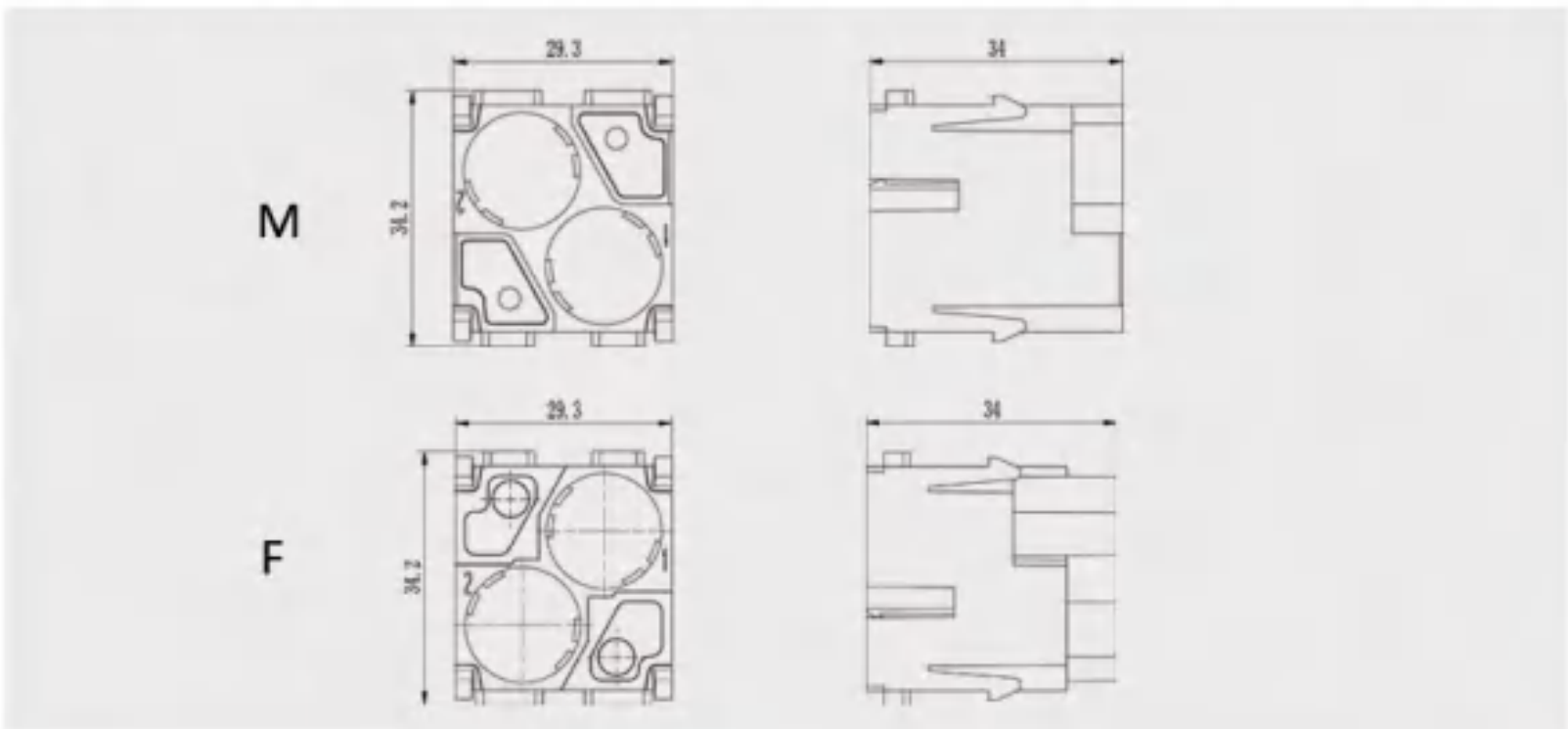


Can be combined with the frame and all other modules.

Crimp connection



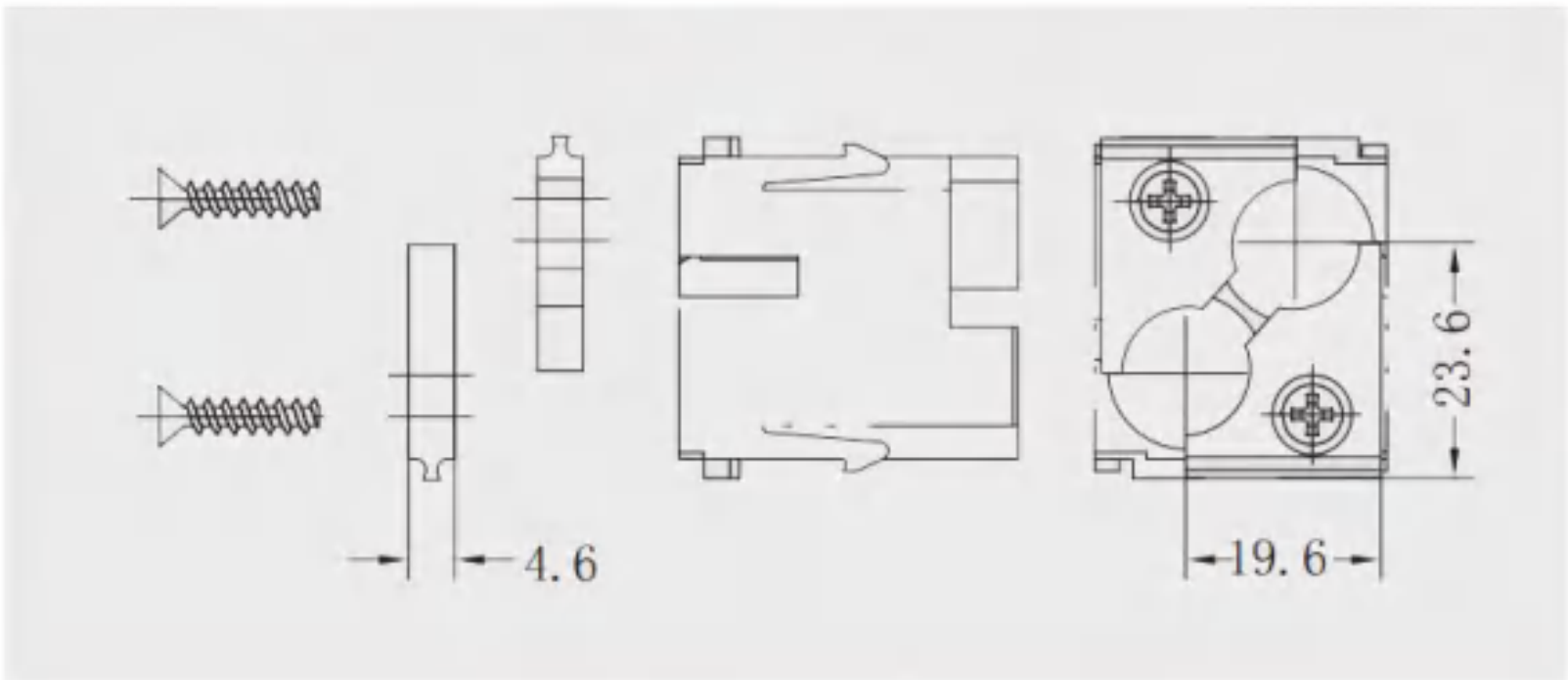
Insert	Type	Order No.
Male	HM-002-M	3 002 070 20 101
Female	HM-002-F	3 002 070 20 102



Q-Coax Metal adapter



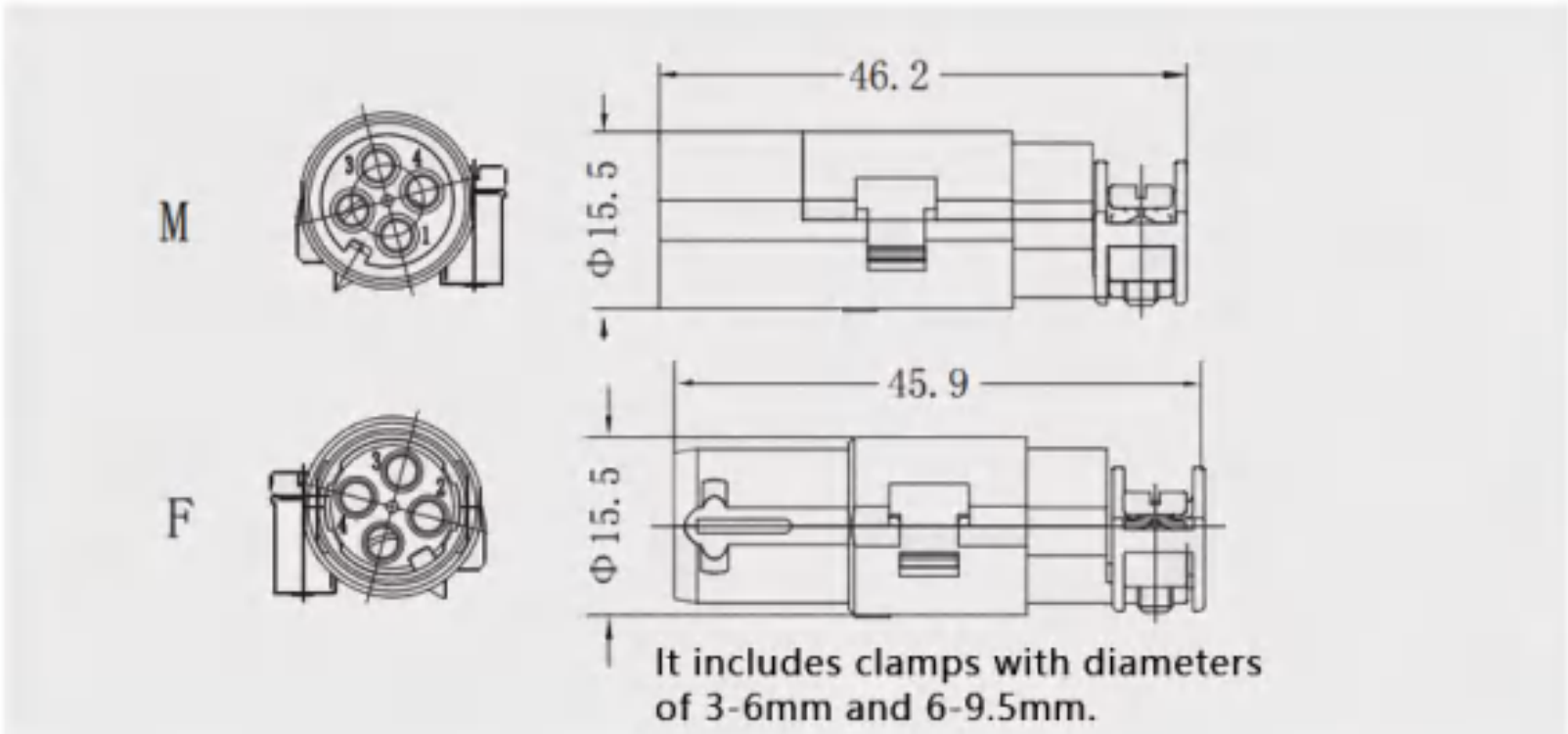
Description	Type	Order No.
	APT-H2MQ	2 015 000 36



Q-Coax 4 needles Order 10A crimp contacts separately



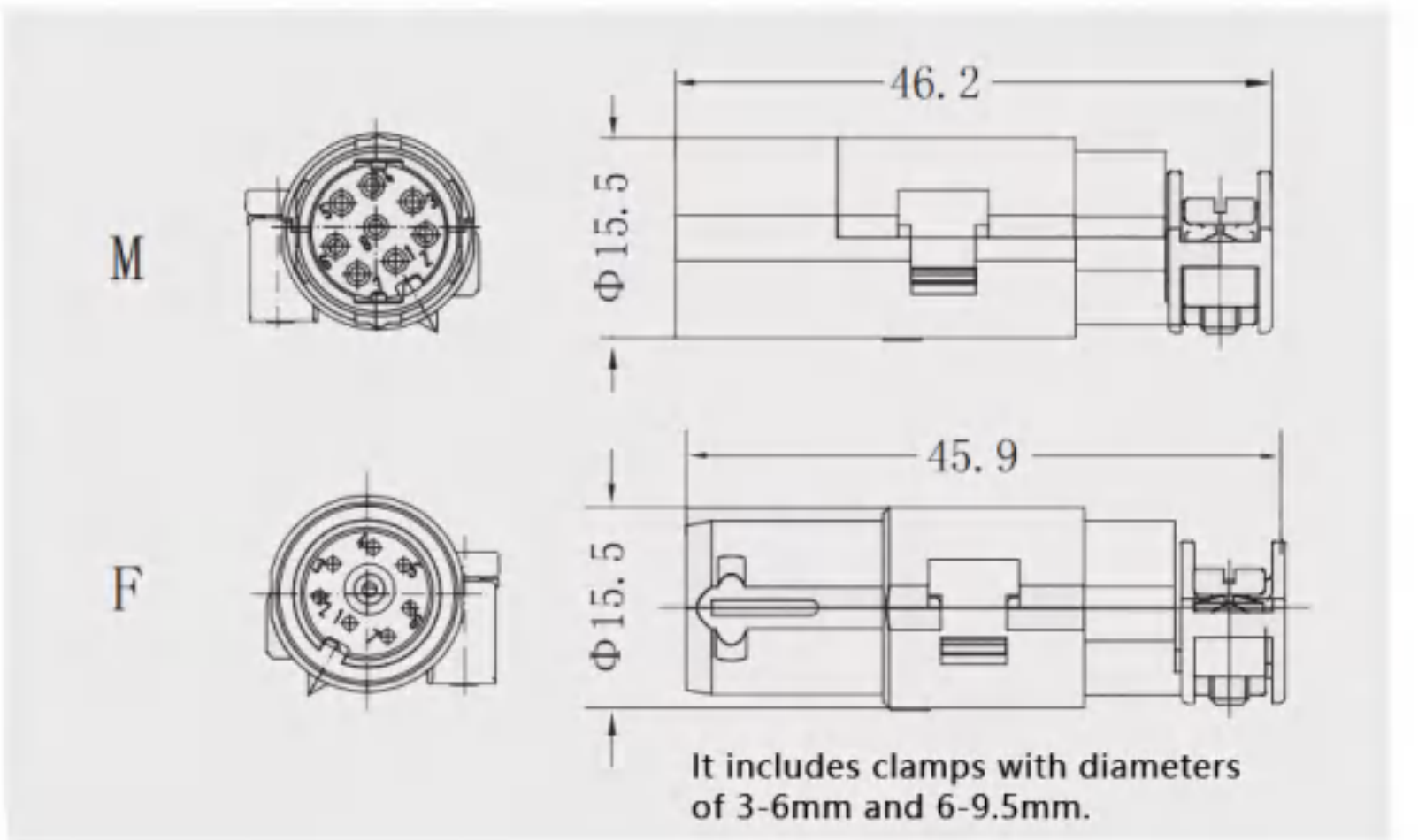
Insert	Type	Order No.
Male	EMC-004-MC	3 004 100 90 102
Female	EMC-004-FC	3 004 100 90 101



Q-Coax 8 needles Order 5A crimp contacts separately



Insert	Type	Order No.
Male	EMC-008-MC	3 008 100 90 101
Female	EMC-008-FC	3 008 100 90 102



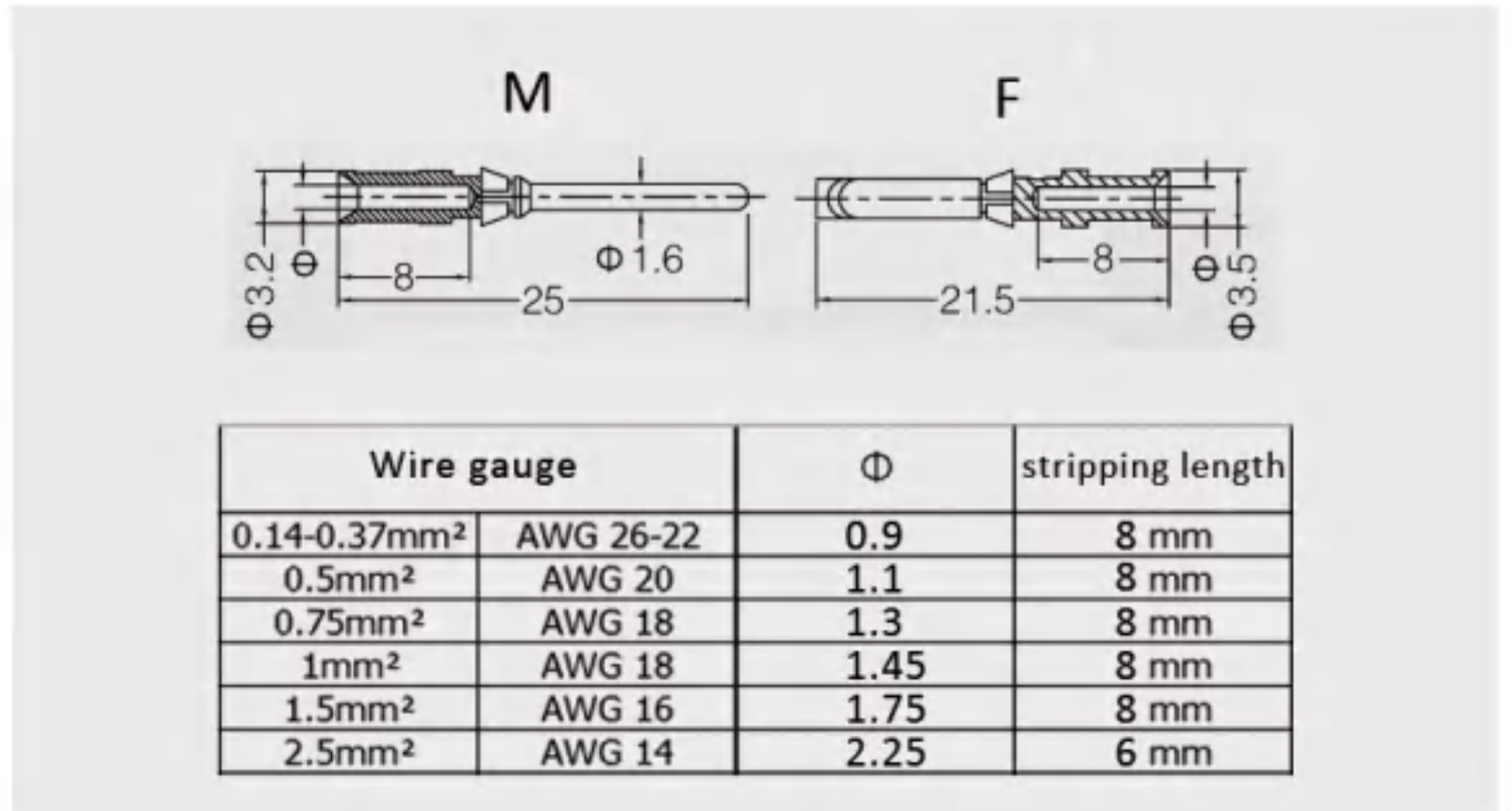
HM

Crimp contacts

Crimp contacts 10A



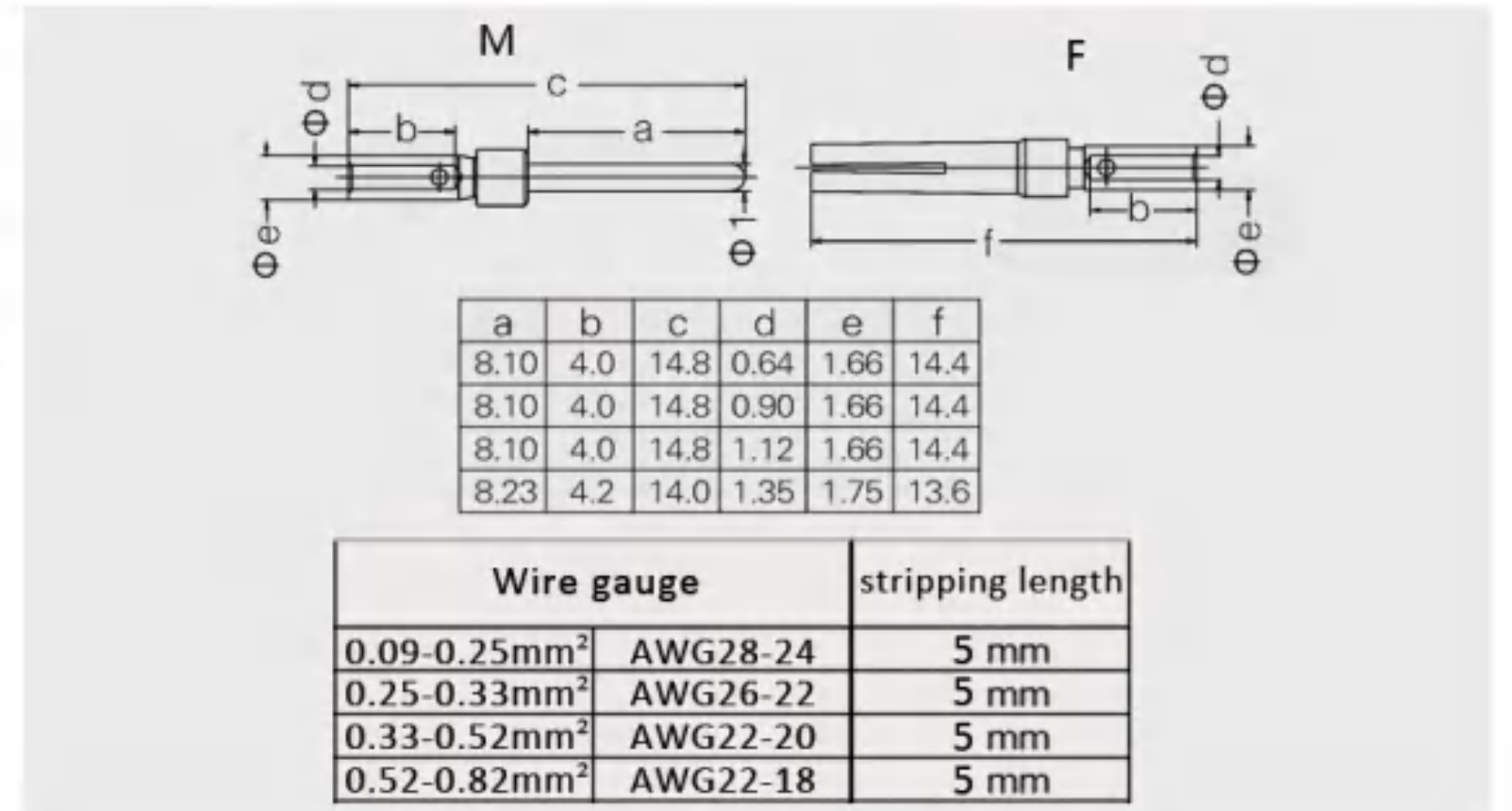
Male	Order No.	Female	Order No.
DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
DGM-2.5	4 010 210 10 250	DGF-2.5	4 010 210 20 250



Crimp contacts 5A



Male	Order No.	Female	Order No.
SGM-0.25	4 005 210 10 025	SGF-0.25	4 005 210 20 025
SGM-0.33	4 005 210 10 033	SGF-0.33	4 005 210 20 033
SGM-0.52	4 005 210 10 052	SGF-0.52	4 005 210 20 052
SGM-0.82	4 005 210 10 082	SGF-0.82	4 005 210 20 082



Q-coax Electromagnetic Shielding module

EMC-001 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

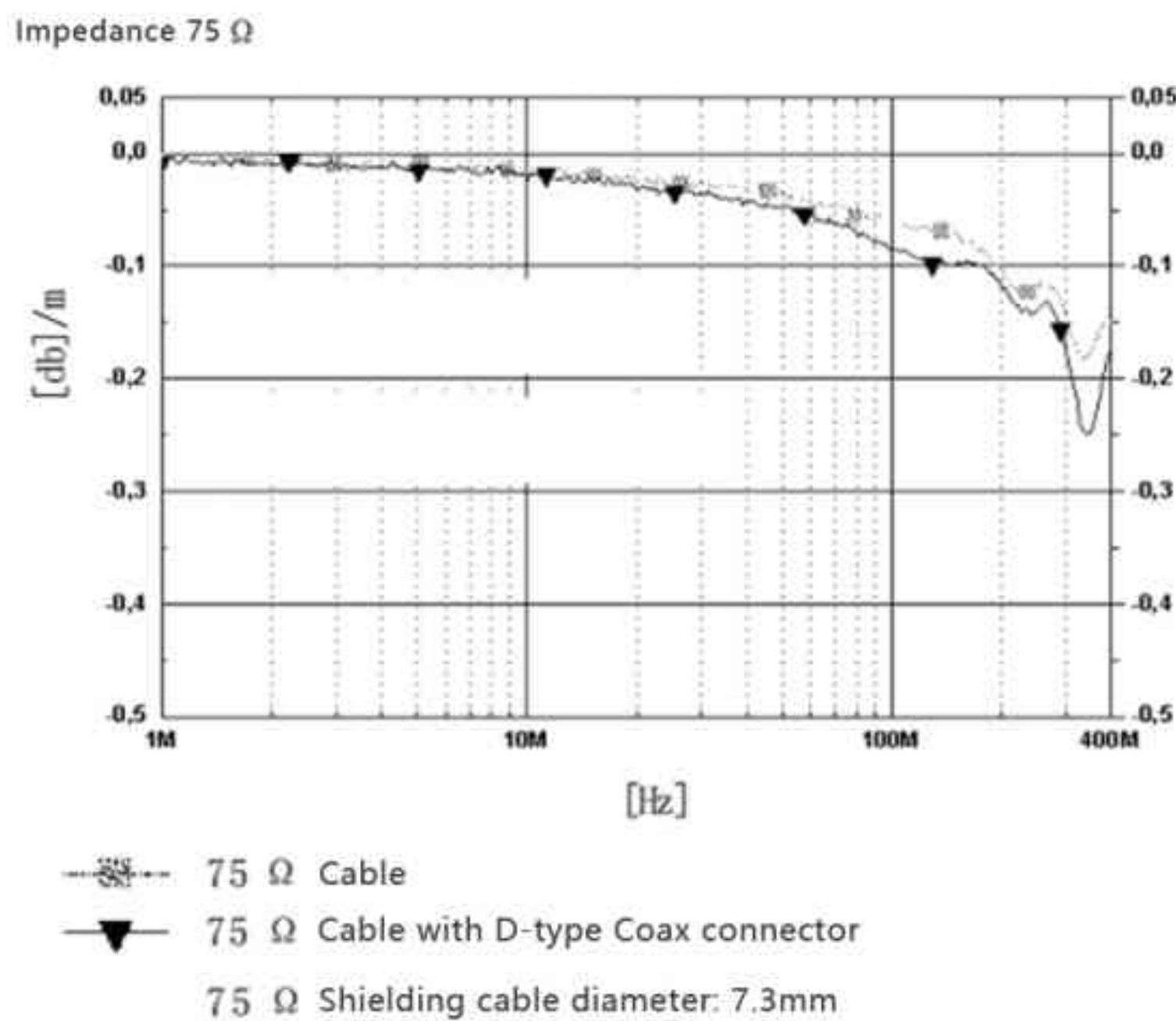
Specifications

DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Insersts

Number of contacts	1 , 2
Insulation resistance	$\geq 10^9 \Omega$
Material	Polycarbonate
Limiting temperatures	-40°C~+85°C
Flammability acc.to UL94	V0
Mating cycles	≥ 500
Coax connector	
Number of contacts	1+Block
Electrical dataacc.to EN61 984	
-D-type Coax needle	10A 50V 0.8KV 3
Rated current	10A
Rated voltage	50V
Rated impulse voltage	0.8KV
Pollution resistance	3
Material	
-D-type Coax needle	75Ω
Material	
-Insulator	Polycarbonate
-Outer conductor	Zinc alloy
Contact resistance	$\leq 4m\Omega$
Limiting temperatures	-40°C~+85°C
Flammability acc.to UL94	V0
Surface of comductor	Nickel
Cable diameter	3-9.5mm
D-shaped needle (10A)	
Material	Copper alloy
Surface treatment	Gilding
Contact resistance	$\leq 3m\Omega$
Crimp connection	
-mm ²	0.14-2.5mm ²
-AWG	26-14

Transmission performance



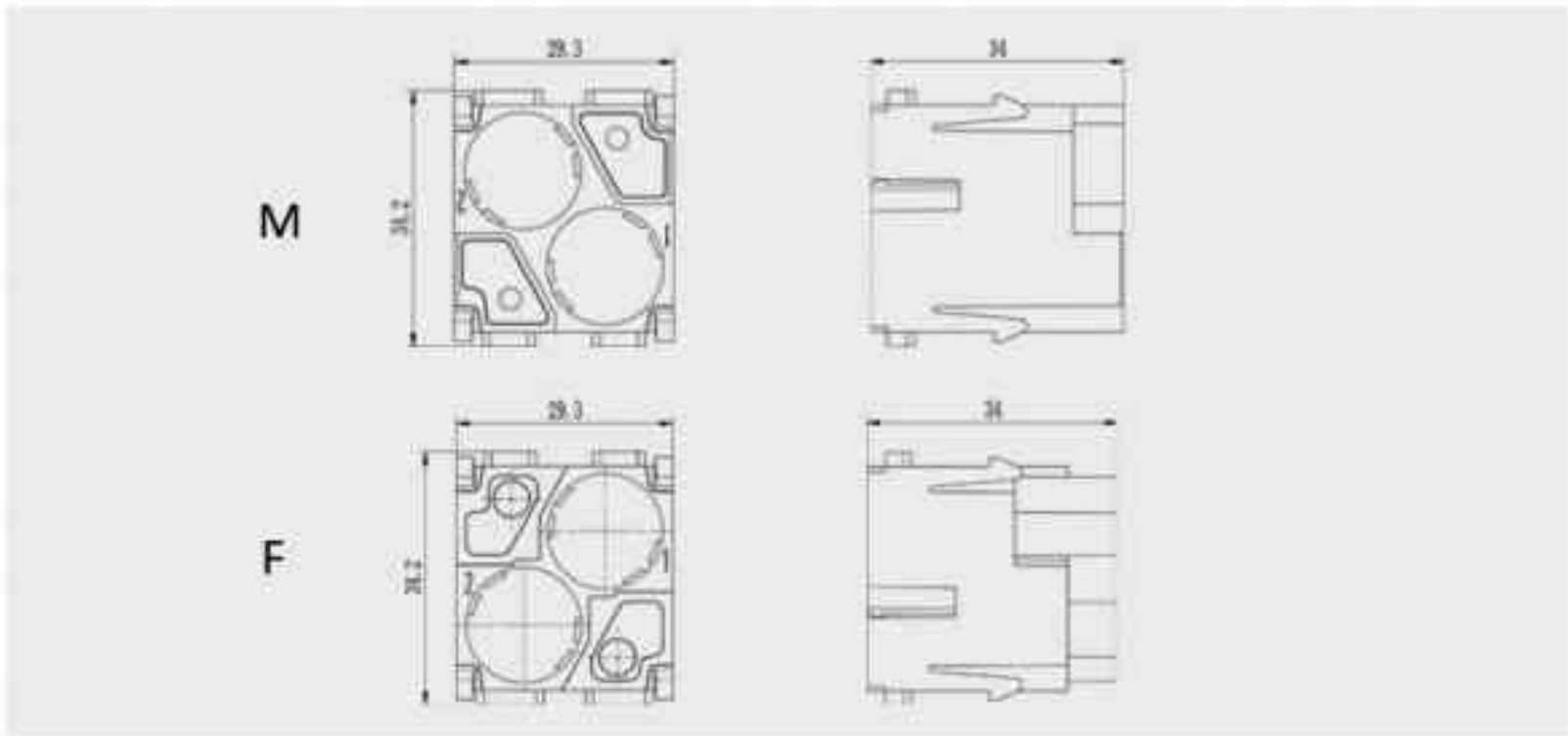
HM

 Can be combined with the frame and all other modules.

Crimp connection



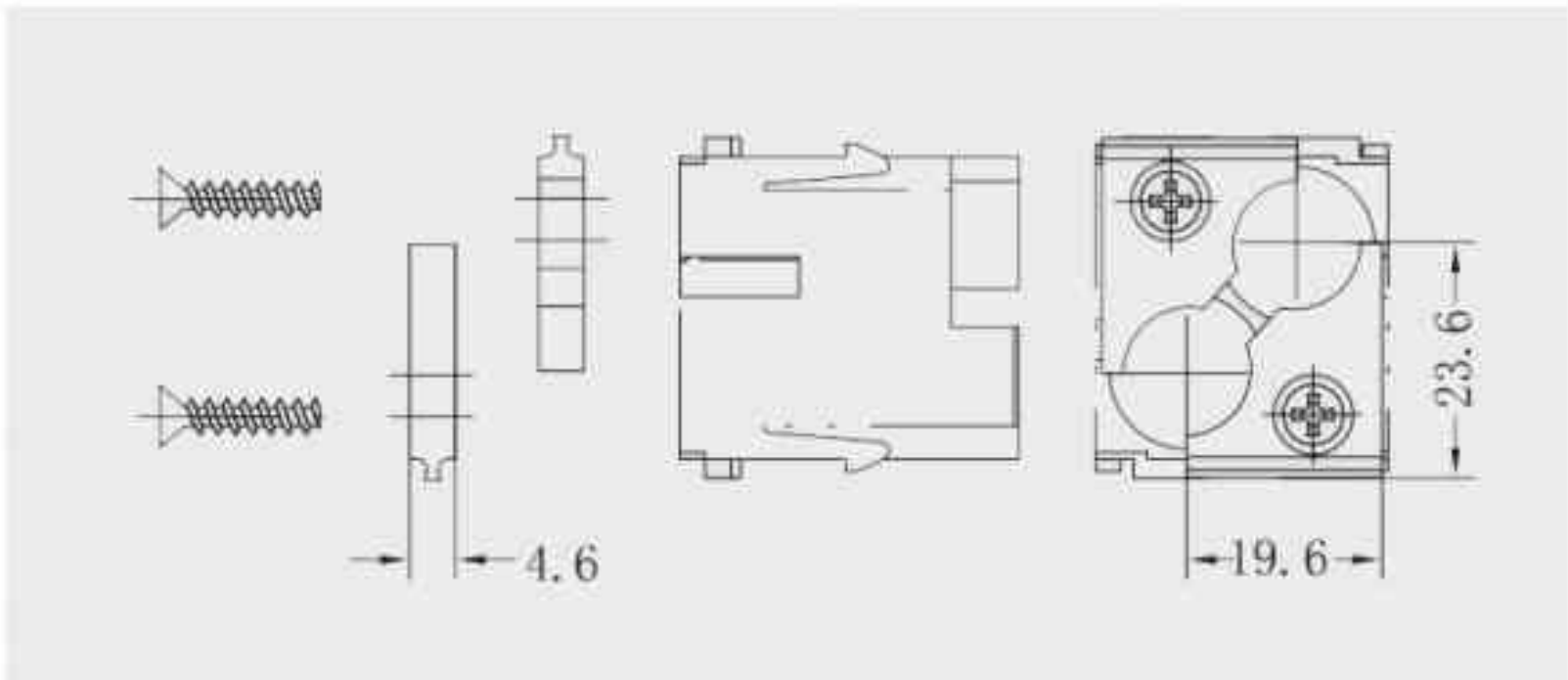
Insert	Type	Order No.
Male	HM-002-M	3 002 070 20 101
Female	HM-002-F	3 002 070 20 102



Q-Coax Metal adapter



Description	Type	Order No.
	APT-H2MQ	2 015 000 36

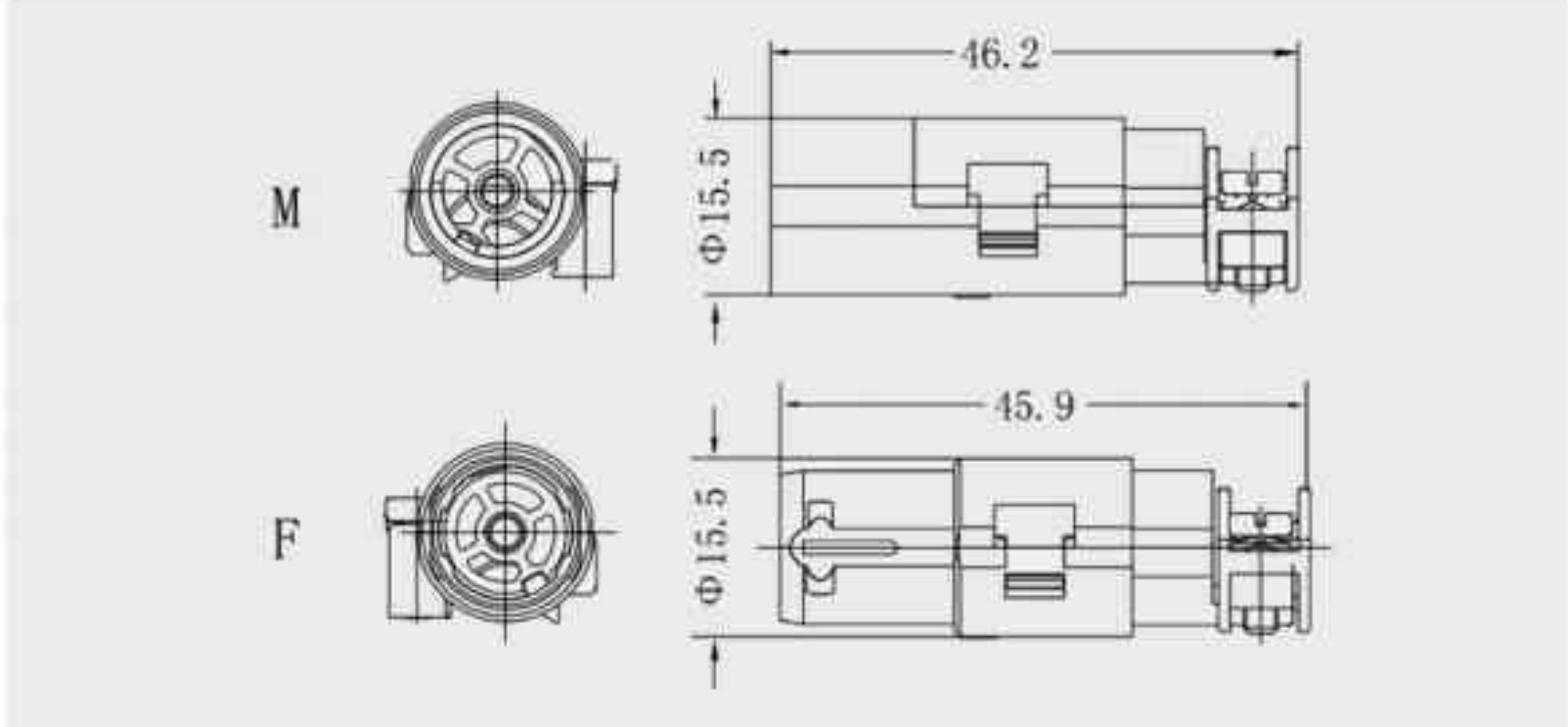


Q-Coax One needle Order 10A crimp contacts separately

Impedance 75Ω



Insert	Type	Order No.
Male	EMC-001-MC	3 001 100 90 101
Female	EMC-001-FC	3 001 100 90 102

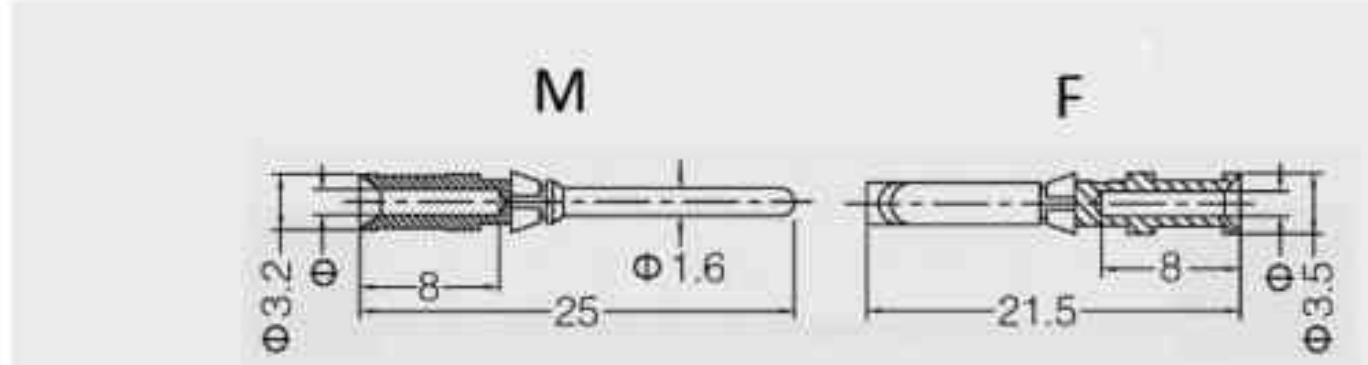


HM

Crimp contacts

Crimp contacts 10A

Male	Order No.	Female	Order No.
DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
DGM-2.5	4 010 210 10 250	DGF-2.5	4 010 210 20 250



Accessories

Tool
Crimping tool



Contact removal tool

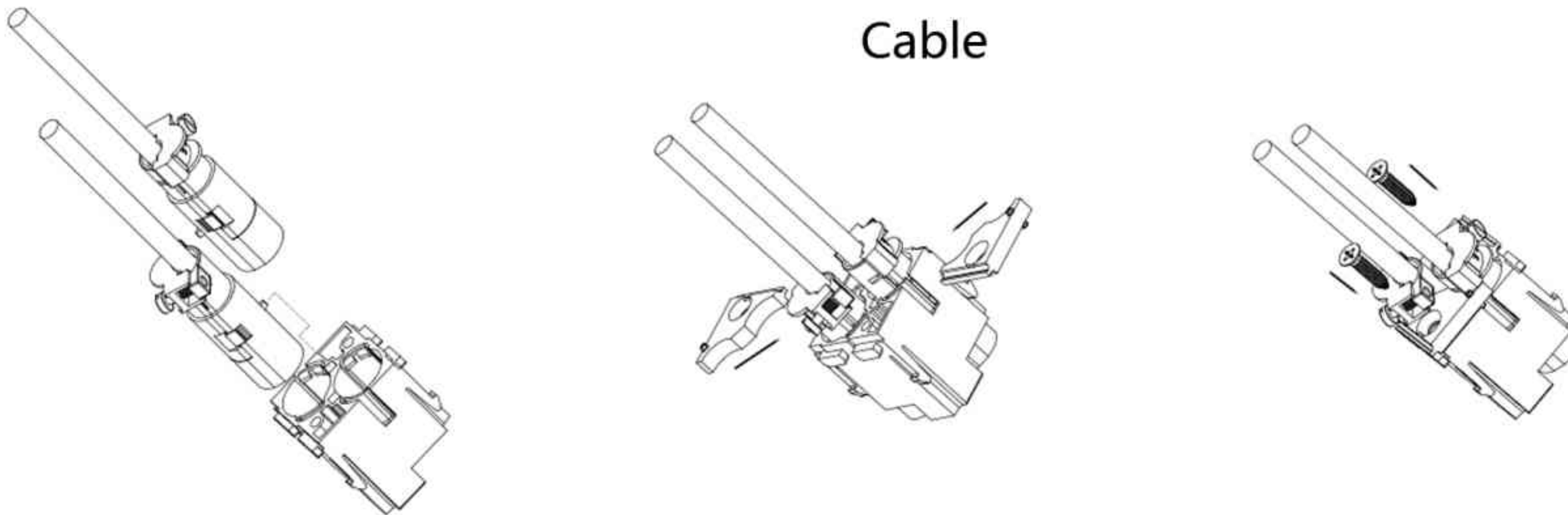
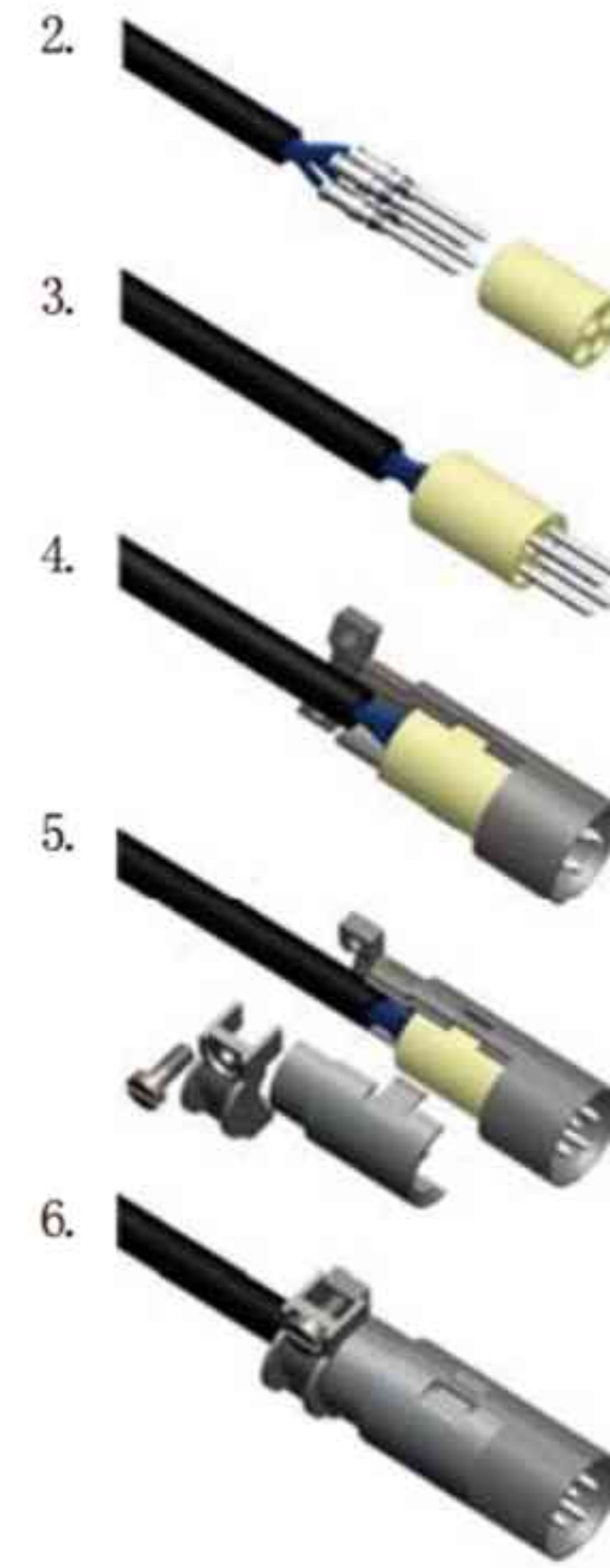
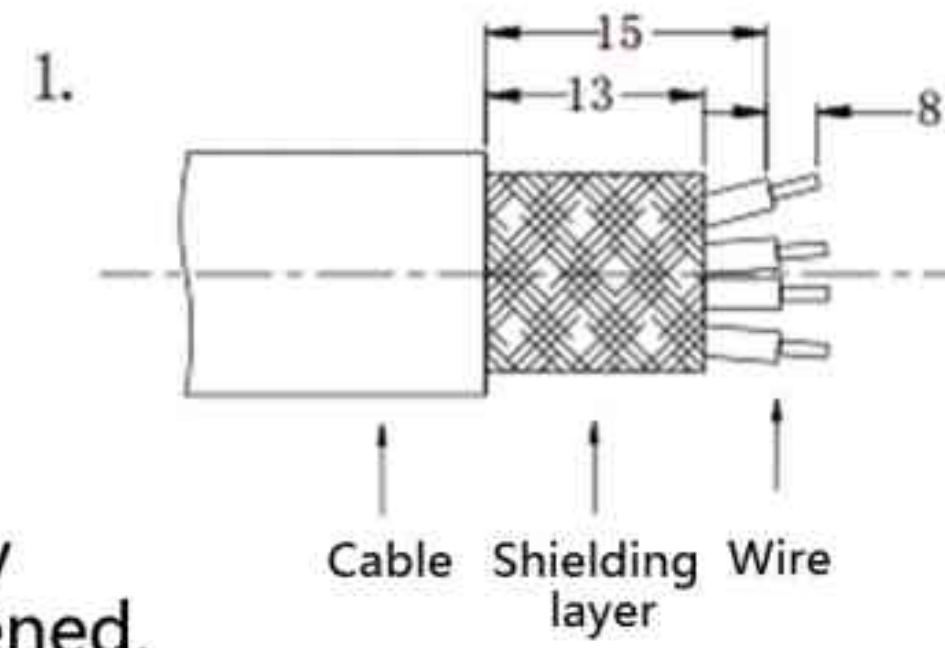


Wire gauge	Designation	Order No.
0.37-4mm²	WFT-LY01	5 000 100 00 001

Wire gauge	Φ	Stripping length
0.14-0.37mm²	AWG 26-22	0.9
0.5mm²	AWG 20	1.1
0.75mm²	AWG 18	1.3
1mm²	AWG 18	1.45
1.5mm²	AWG 16	1.75
2.5mm²	AWG 14	2.25

Application	Designation	Order No.
10A Terminal	WFT-HD01	5 000 200 00 003

1. Remove the cable insulation and shielding layer.
2. Press the wire onto the D-shaped cold pressing needle.
3. Insert the D-shaped needle that has been properly wired into the insulating core until it is securely fastened.
4. Insert the already installed core into the metal housing with shielding function, following the direction of the slot.
5. Use cable clamps to secure the shielded cable (small clamps are 3-6mm in size, and large clamps are 6-9.5mm in size)
6. Inspect the cables.
7. Close the cover of the metal shell and insert it into the Q-Coax core of the corresponding abdominal cavity.



HM-002-M/F Installation Instructions

Step 1: Insert the pre-assembled Coax core into the socket of HM-002-M/F. During the insertion process, align the "triangular positioning mark" on the Coax plug body with the "positioning slot" on the HM-002-M/F socket. Follow this direction to insert it. When you hear a "click" sound, it indicates that the assembly is complete, meaning the hook has caught the step surface of the Coax.

Step 2: Insert the pair of adapters APT-H2MQ in the direction indicated by the arrows, and place them horizontally onto the fixed step surfaces of the HM-002-M/F and Coax cores. As shown in Figure 2

Step 3: Secure the adapter fixing screws. Once done, the installation of the HM-002-M/F module is complete.

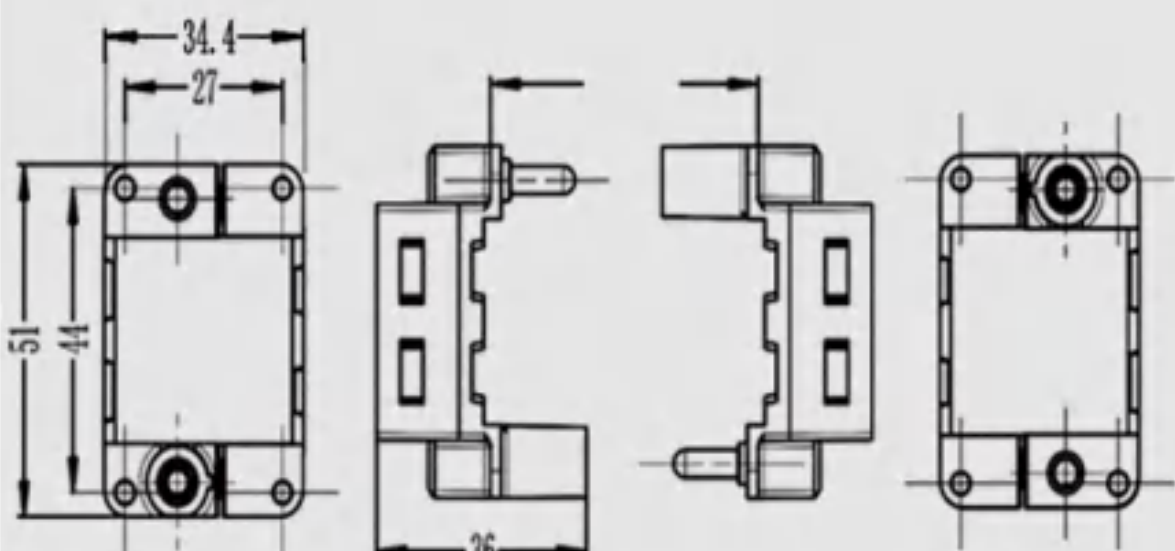
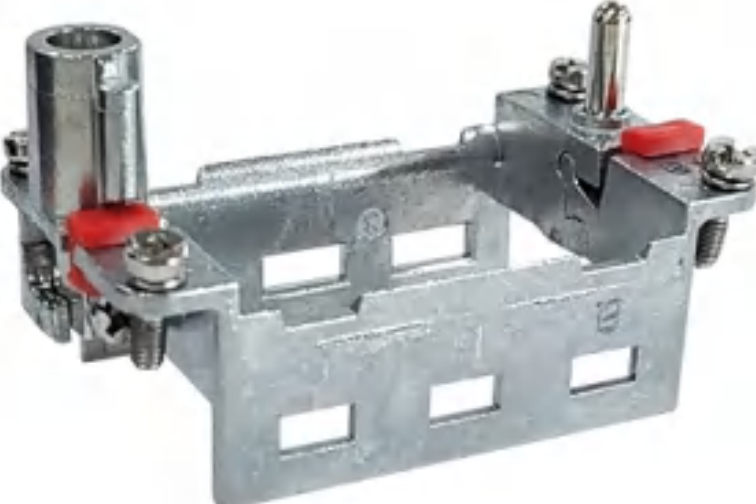
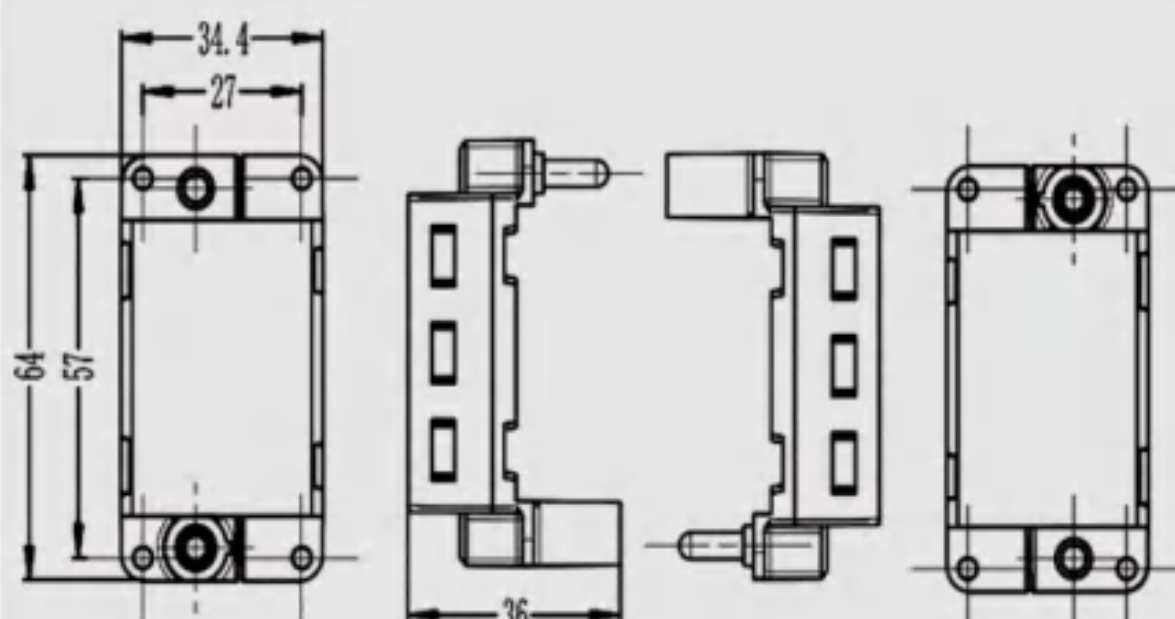
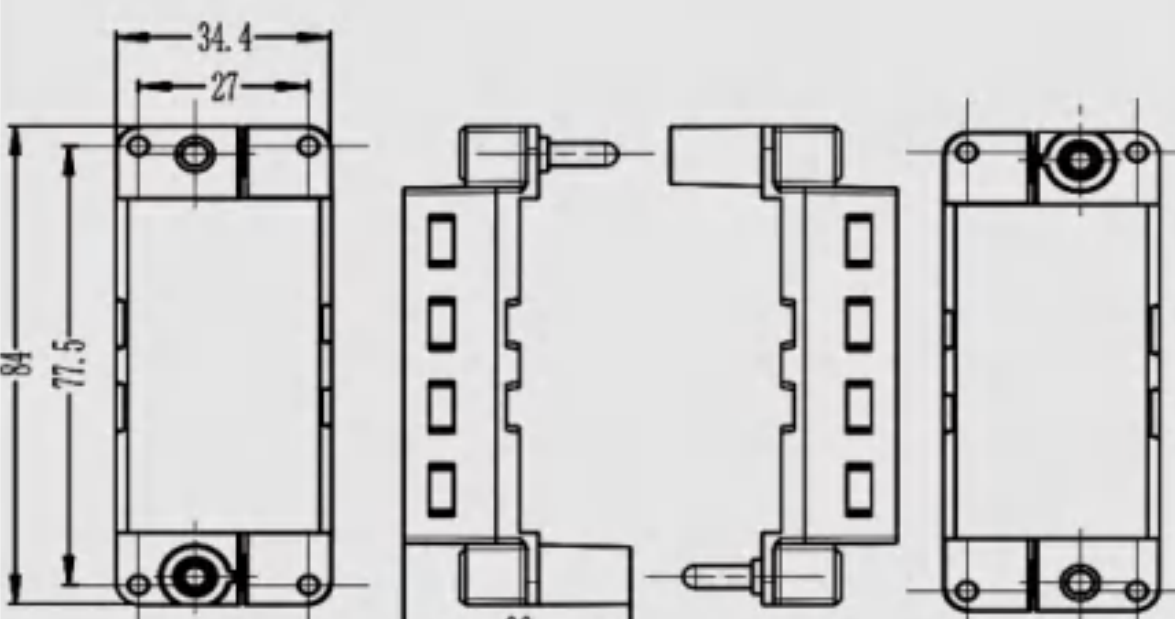
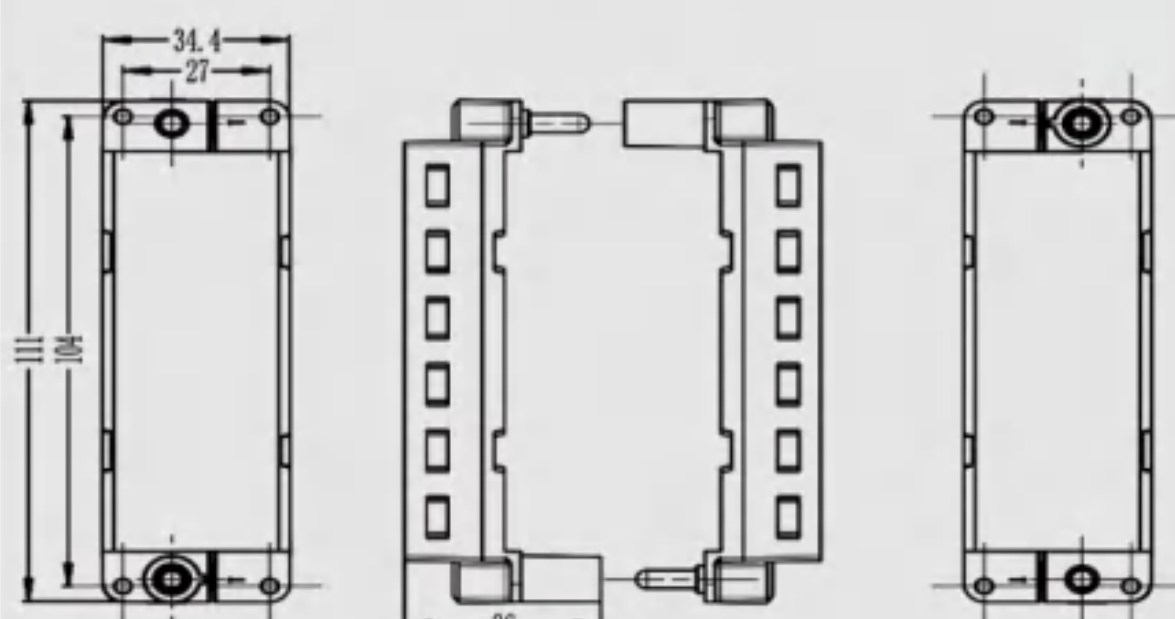
Step 4: Install the installed HM-002-M/F module onto the module frame.



Technical Characteristics

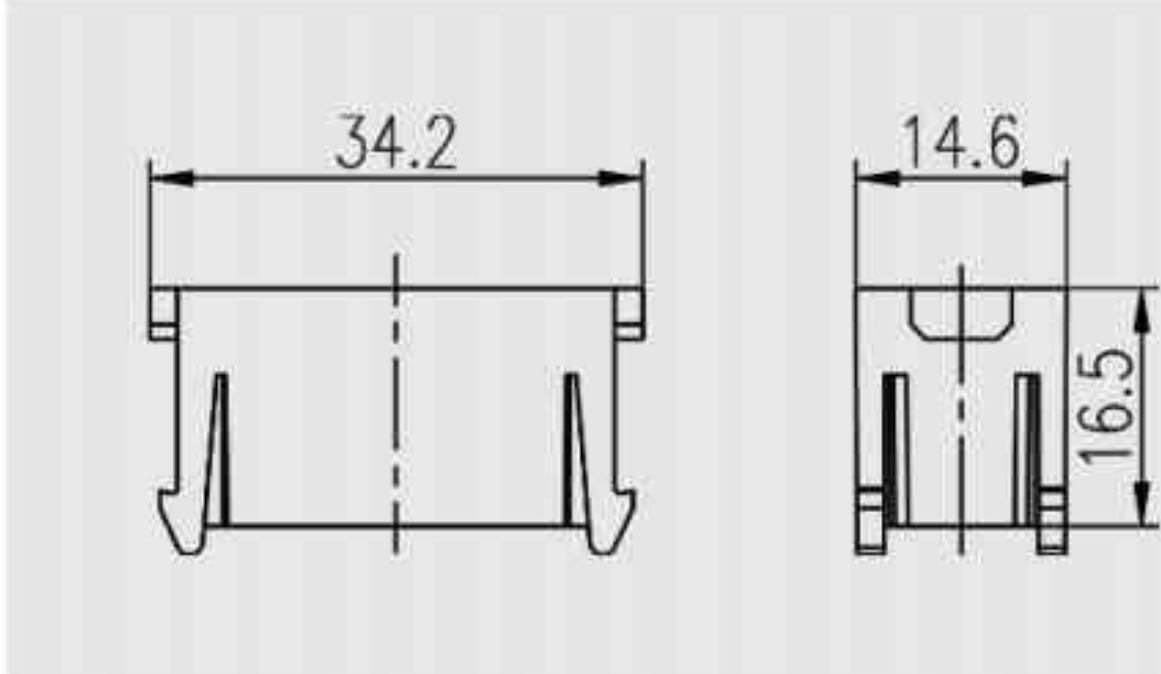
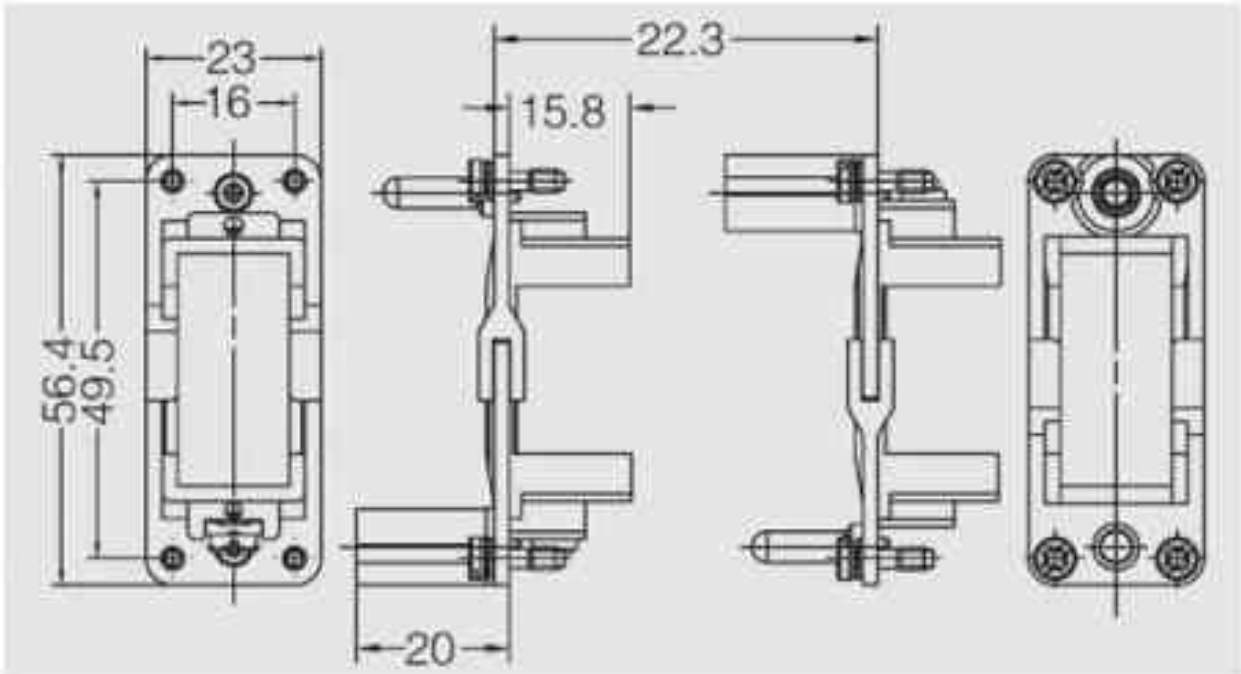
Number of modules	1 (10A Framework) 2,3,4,6
PE contact(Wire gauge)	
—Power side	4-10mm ² AWG 12 - 8
—Signal side	1-2.5mm ² 18-14
Material	zinc die—cast
Limiting temperatures	-40°C...+125°C
Mechanical working life(Mating cycles)	≥500

Frame construction version

Identification	Type	Order No.	Drawing	Dimensions mm
 The matching core is based on P67-P84. For two modules	NEW (AB) H6B-T2-M (ab) H6B-T2-F	3 006 020 00 101 3 006 020 00 102		
 The matching core is based on P67-P84. For three modules	NEW (ABC) H10B-T3-M (abc) H10B-T3-F	3 010 020 00 101 3 010 020 00 102		
 The matching core is based on P67-P84. For four modules	NEW (ABCD) H16B-T4-M (abcd) H16B-T4-F	3 016 020 00 101 3 016 020 00 102		
 The matching core is based on P67-P84. For six modules	NEW (ABCDEF) H24B-T6-M (abcdef) H24B-T6-F	3 024 020 00 101 3 024 020 00 102		

HM

Frame construction version

Identification	Designation	Order No.	Drawing	Dimensions mm
	HM-000	3 000 000 00 100		
Size 10A ,detail please find the page 127-128	(A) H10A-T1-M	3 010 010 00 101		
	(a) H10A-T1-F	3 010 010 00 102		
 For one module				

HM



HK



High-current connector

HK-004/0,004/2
technical characteristics



HK-004/0,004/2, technical characteristics

Current carrying capacity

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

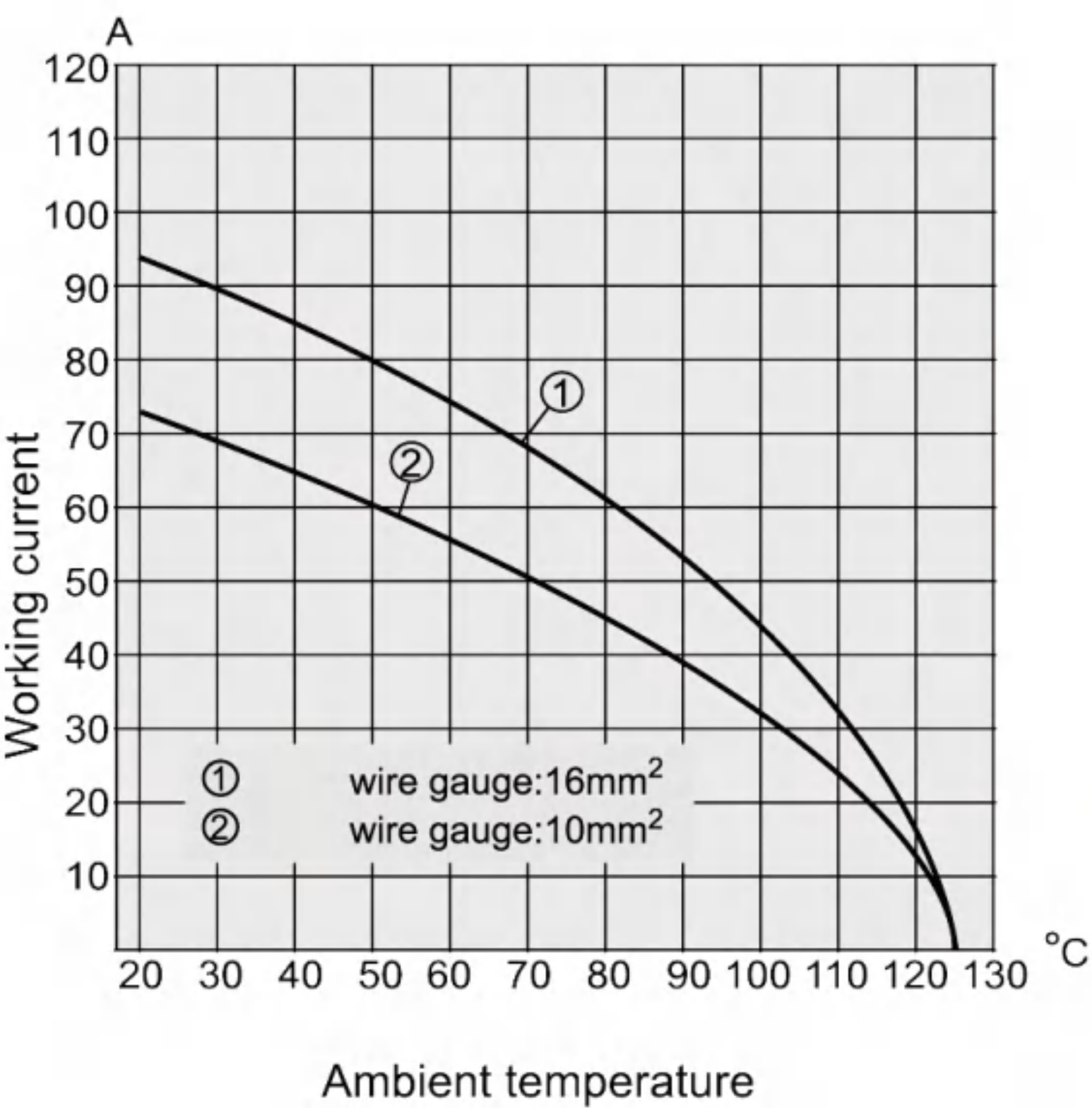
Control and test procedures according to DIN IEC 60512-3

Specifications

DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inesrts	
Number of contacts	4/0,4/2,
Working current (See current carrying capacity)	
Power area	80A
Signal area	16A
Working voltage	
Power area	830V
Signal area	400V
Pollution degree 2	
Power area	1000V
Signal area	400/690V
Pollution degree	3
Rated impulse voltage	
Power area	8KV
Signal area	6KV
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600V/300V
Mechanical working life(mating cycles)	≥ 500

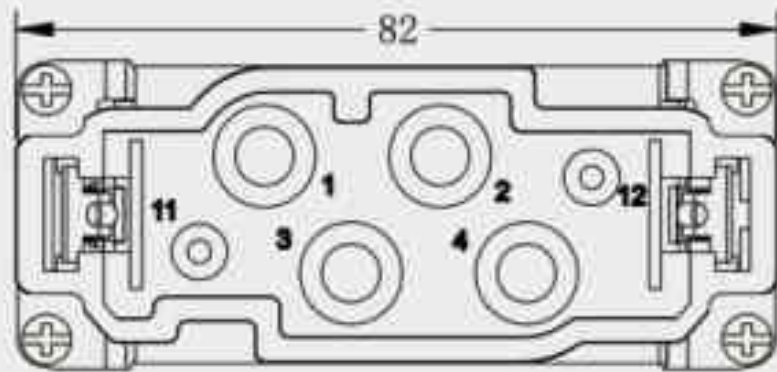
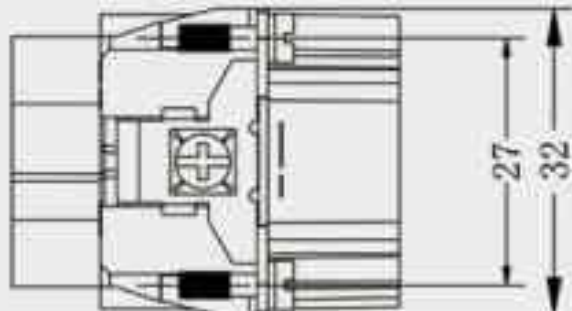
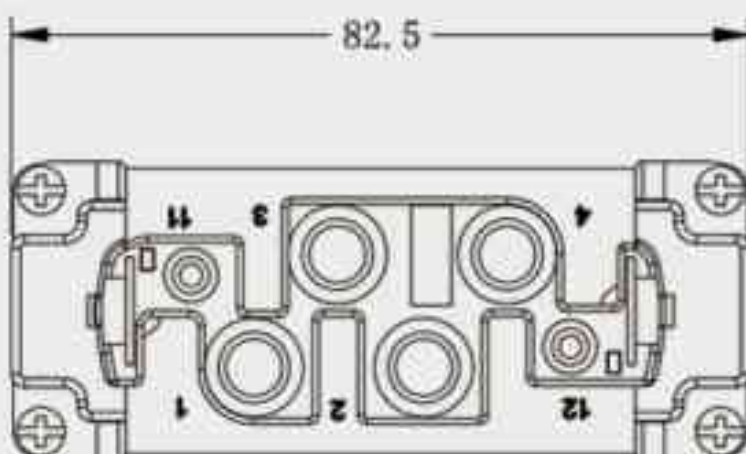
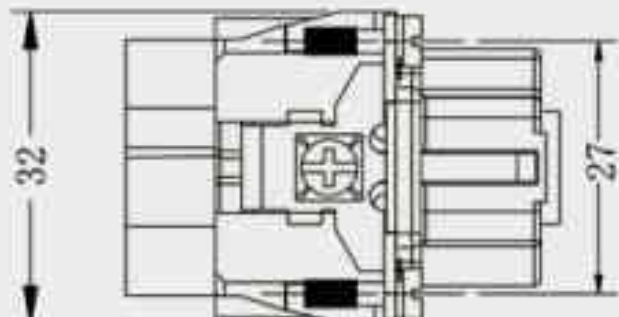
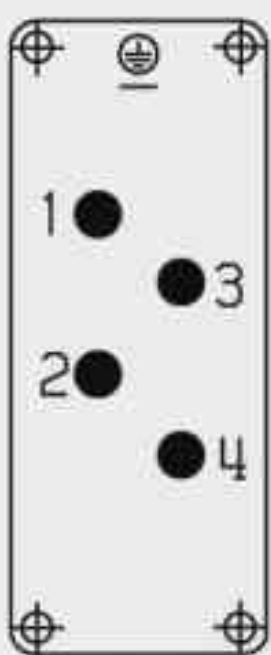
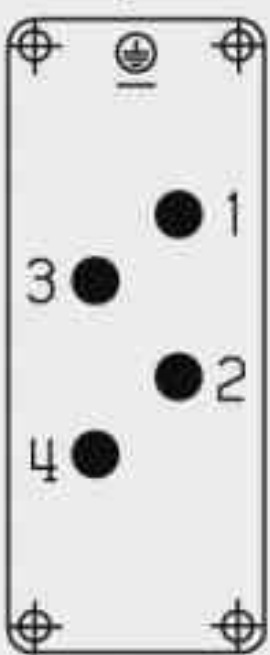
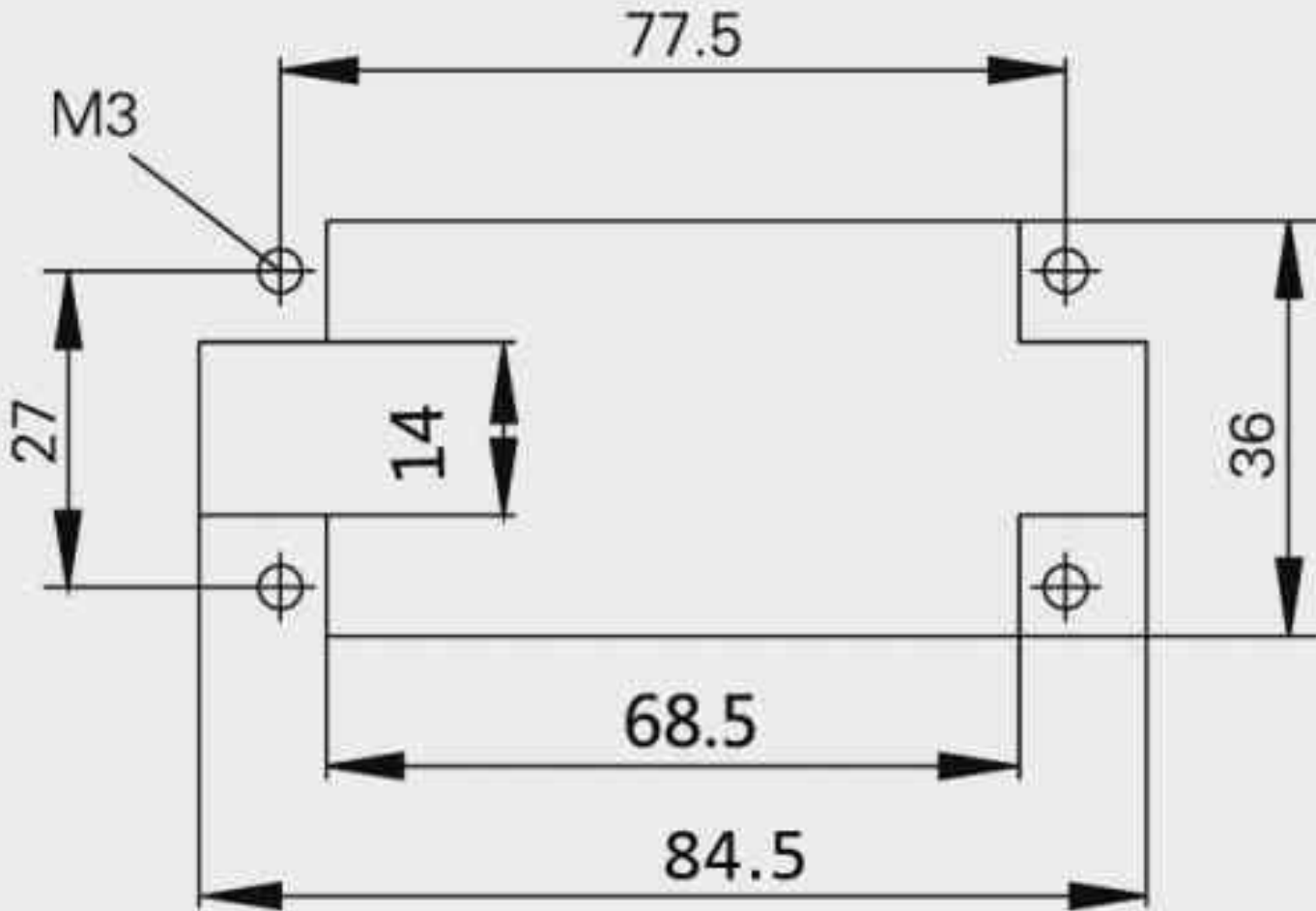
Contacts															
Material	Copper alloy														
Surface	Hard silver-plated Hard gold-plated														
Contact resistance	Power area ≤0.3mΩ Signal area ≤ 1 m Ω														
Terminal	Screw terminal														
Wire gauge	Power area 1.5-16mm ² AWG16-6 Signal area 0.5-2.5mm ² AWG20-14														
Tighening torque	Power area <table><tr><td>mm²</td><td>1.5</td><td>2.5</td><td>4</td><td>6</td><td>10</td><td>16</td></tr><tr><td>N.m</td><td>1.2</td><td>2</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> Signal area 0.5 N.m	mm ²	1.5	2.5	4	6	10	16	N.m	1.2	2	3	3	3	3
mm ²	1.5	2.5	4	6	10	16									
N.m	1.2	2	3	3	3	3									



HK

HK-004/0,004/2
technical characteristics

Size **H16B**, detail please find the page 171-185

Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection 	HK-004/0-M	3 004 080 10 101	M 	
	HK-004/0-F	3 004 080 10 102		
			F 	
			Maximum distance between inserts 21mm	
HK 	HK-004/2-M	3 004 082 10 101	M 	
	HK-004/2-F	3 004 082 10 102		
			HK-004/0	HK-004/2
			Contacts arrangement view from termination side 	
			Panel cutout drawing	

HK-004/8

technical characteristics



HK-004/8 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

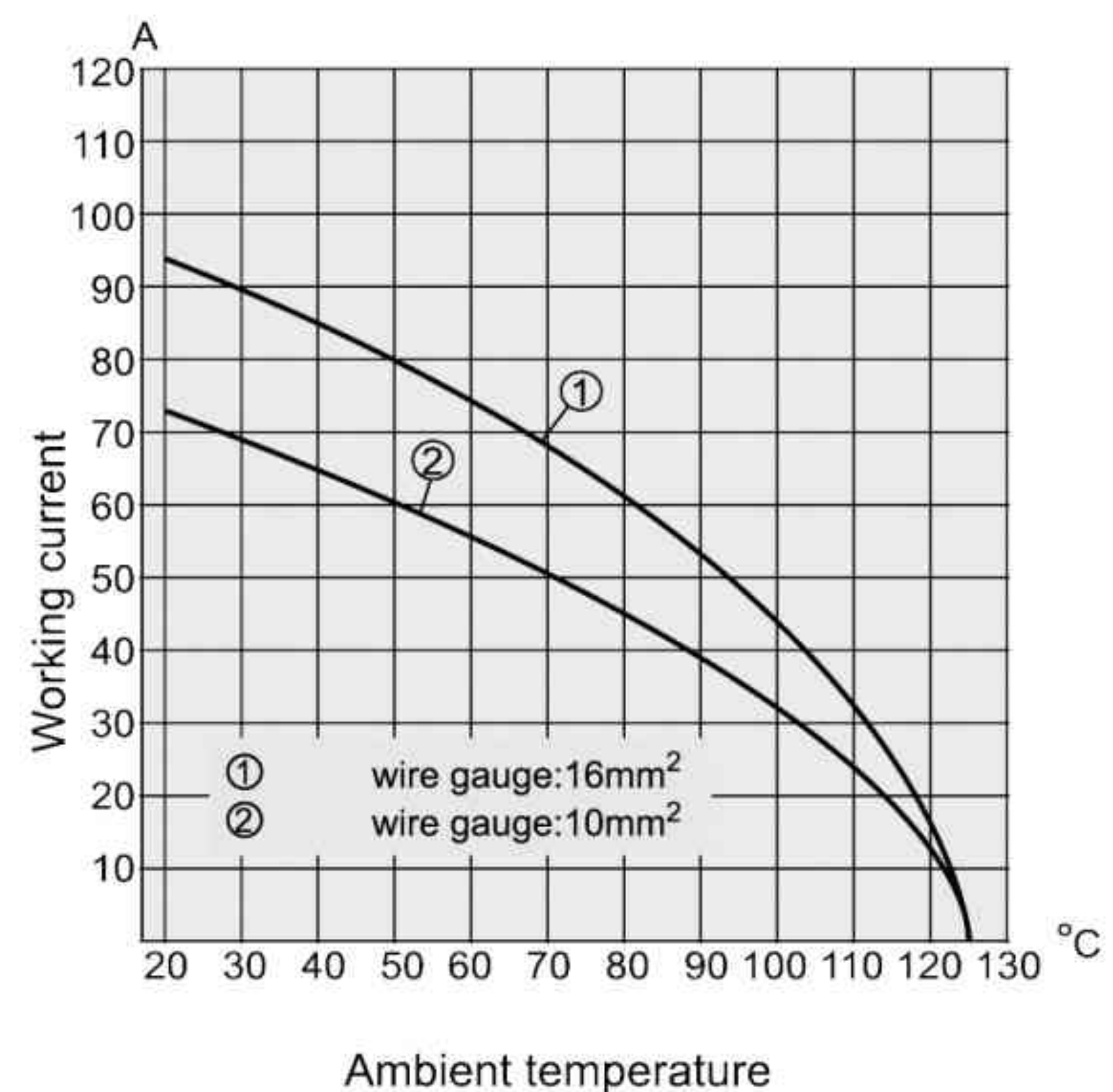
DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inserts

Number of contacts	4/8
Working current (See current carrying capacity)	
Power area	80A
Signal area	16A
Working voltage	
Power area	830V
Signal area	400V
Pollution degree 2	
Power area	400/690V/6kV
Pollution degree	3
Rated impulse voltage	
Power area	6KV
Signal area	6KV
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600V/600V
Mechanical working life(mating cycles)	≥ 500

Contacts

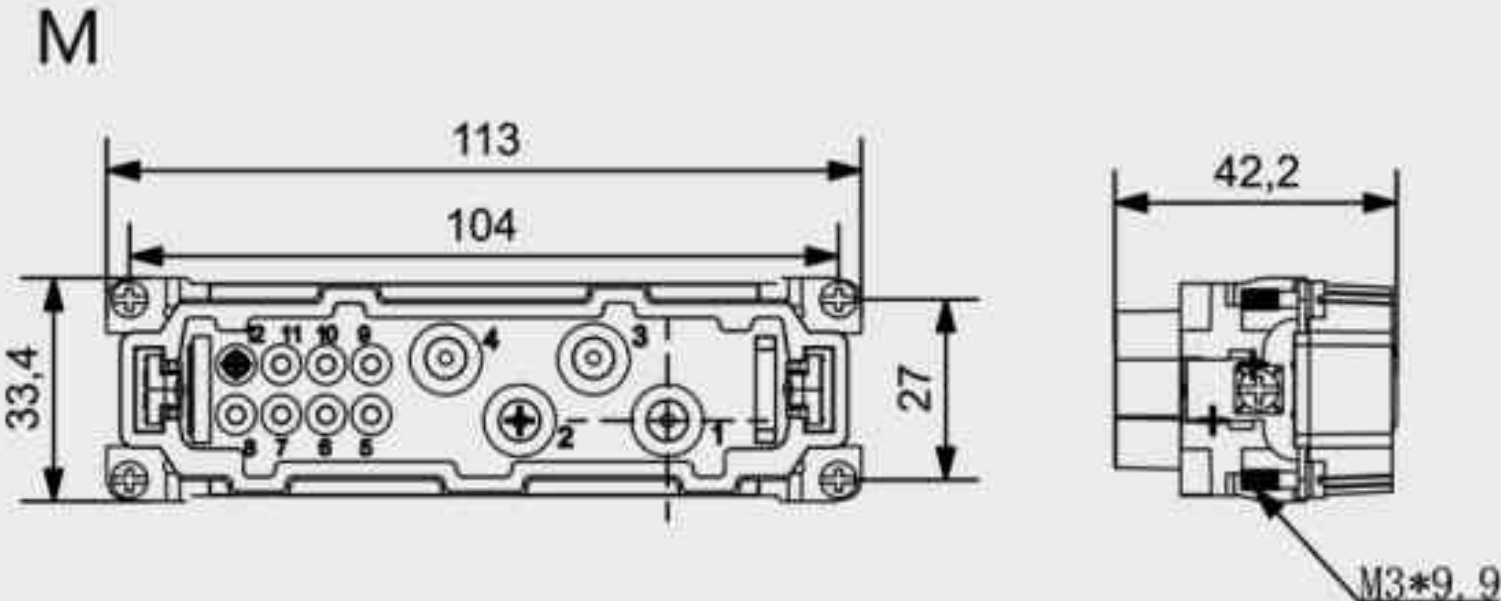
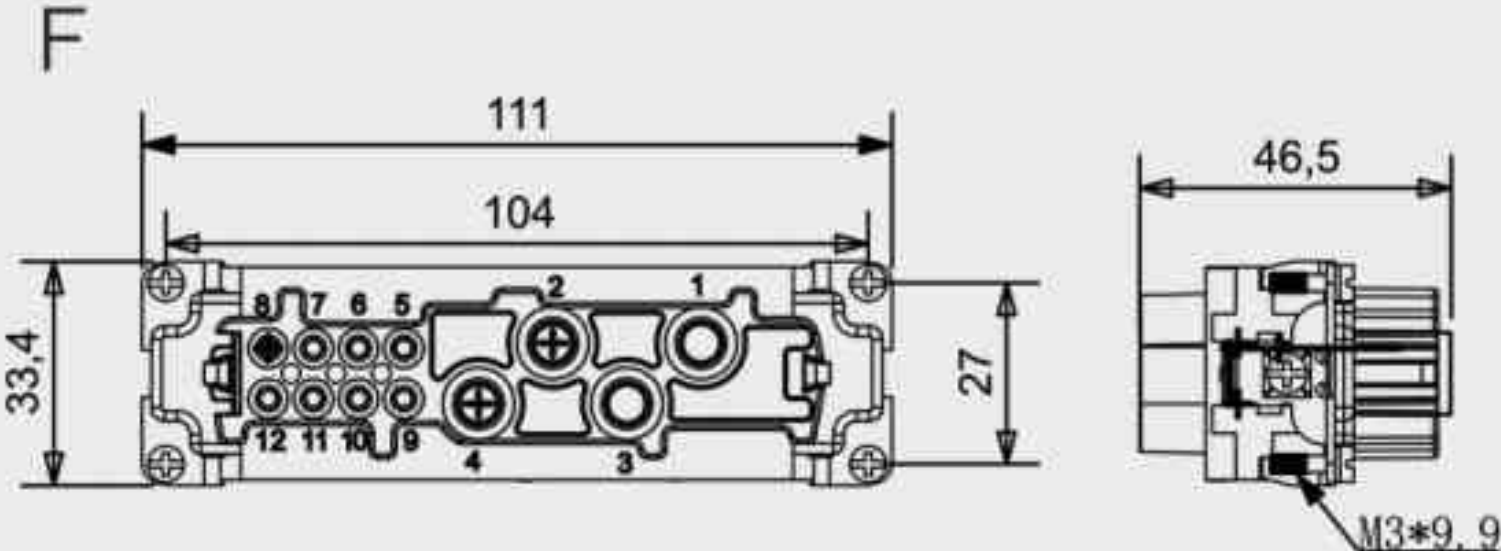
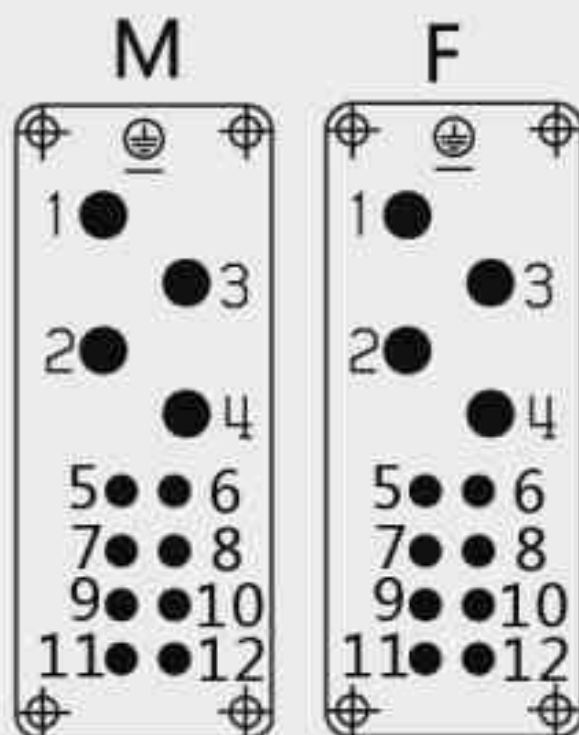
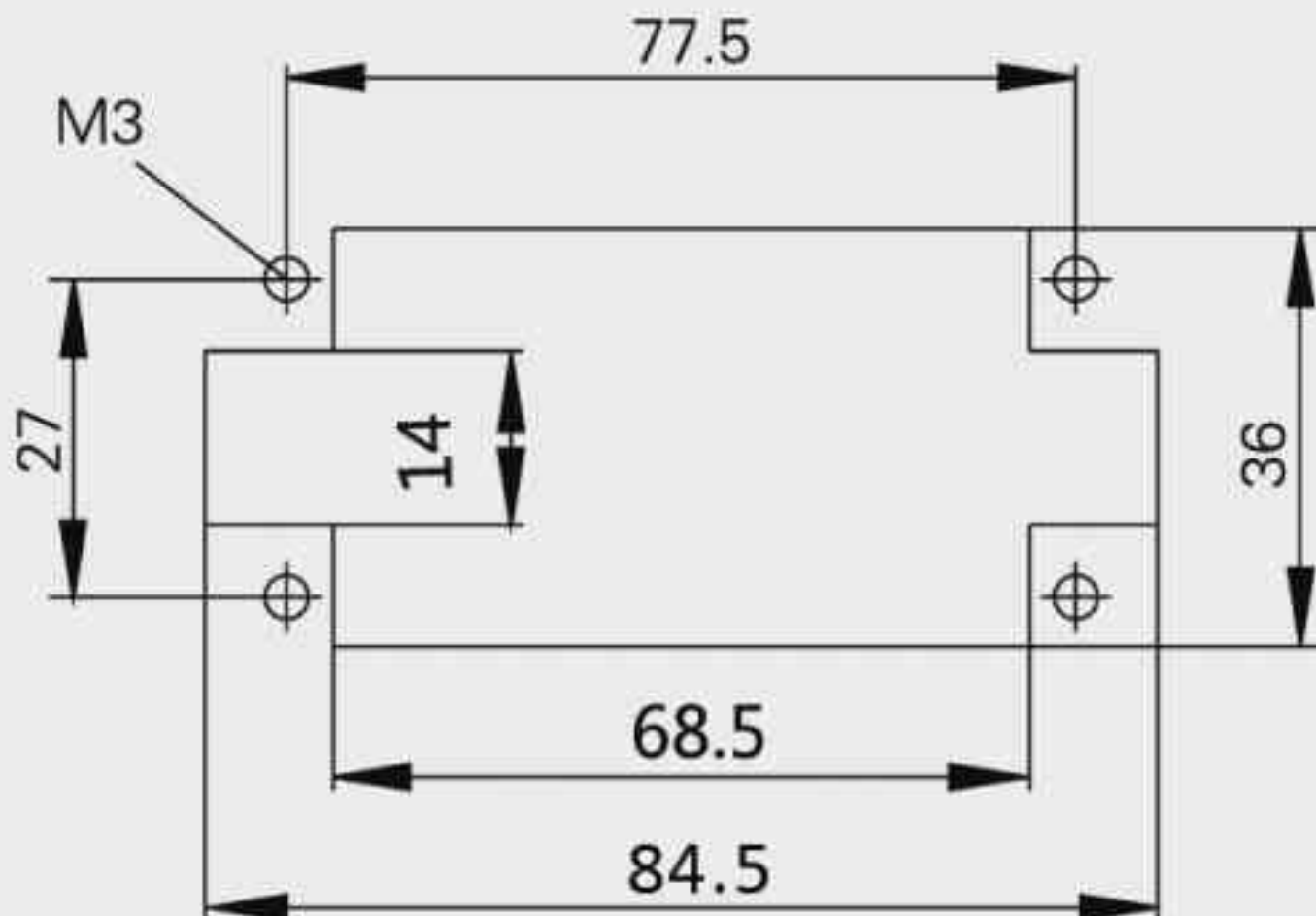
Material	Copper alloy						
Surface	Hard silver-plated Hard gold-plated						
Contact resistance	Power area		≤0.3mΩ				
	Signal area		≤ 1 m Ω				
Terminal	Screw terminal						
Wire gauge	Power area		1.5-16mm ² AWG16-6				
	Signal area		0.5-2.5mm ² AWG18-14				
Tighening torque	Power area						
	mm ²	1.5	2.5	4	6	10	16
	N.m	1.2	2	3	3	3	3
	Signal area		0.5 N.m				



HK

HK-004/8
technical characteristics

Size **H24B**, detail please find the page186-201

Identification	Type	Order No.	Drawing	Dimensions mm	
Screw connection 	HK-004/8-M	3 004 088 10 101			
	HK-004/8-F	3 004 088 10 102			
Maximum distance between inserts 21mm			 HK-004/8 HK-004/8		
Contacts arrangement view from termination side					
Panel cutout drawing					

HK

HK-006/6

technical characteristics



HK-006/6 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

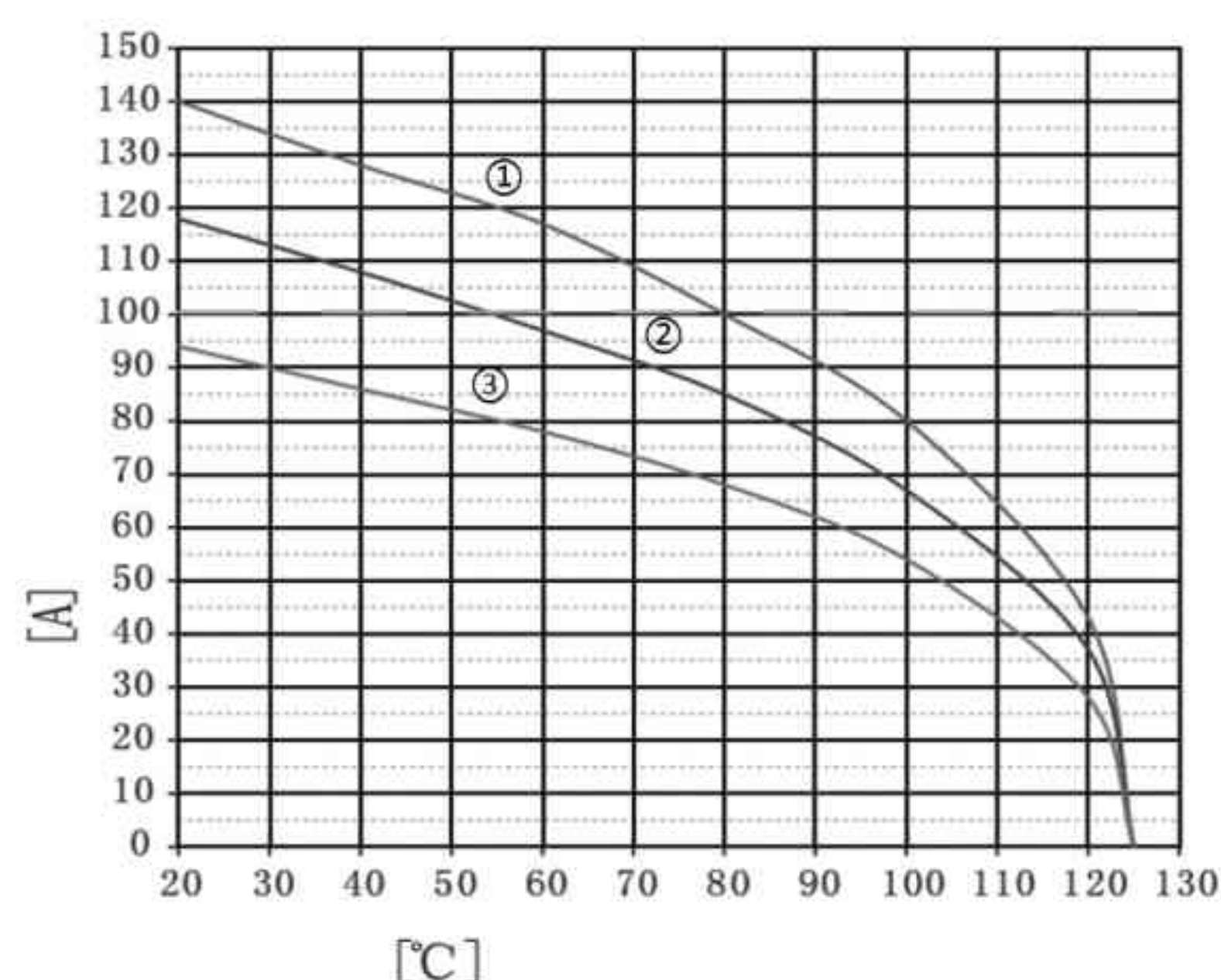
DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inserts

Number of contacts	6/6 + PE
Working current (See current carrying capacity)	
Power area	100 A
Signal area	16 A
Working voltage	
Power area	690 V
Signal area	400 V
Pollution degree 2	
Power area	100/1000 V/8 kV
Pollution degree	3
Rated impulse voltage	
Power area	8 kV
Signal area	6 kV
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600 V/600 V
Mechanical working life(mating cycles)	≥ 500

Contacts

Material	Copper alloy
Surface	Hard silver-plated Hard gold-plated
Contact resistance	Power area $\leq 0.5 \text{ m}\Omega$ Signal area $\leq 1 \text{ m}\Omega$
Terminal	Screw terminal
Wire gauge	Power area 10-35 mm ² AWG6-2 Signal area 0.14-2.5 mm ² AWG26-14

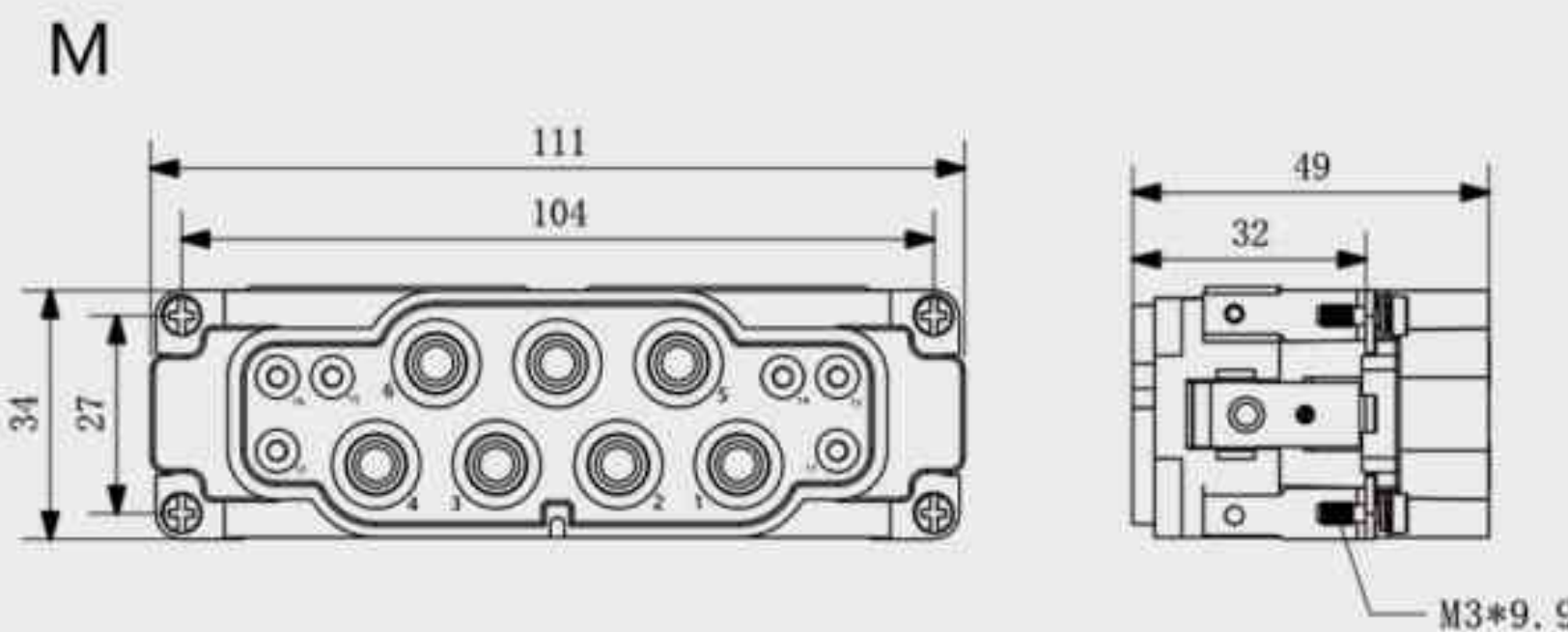
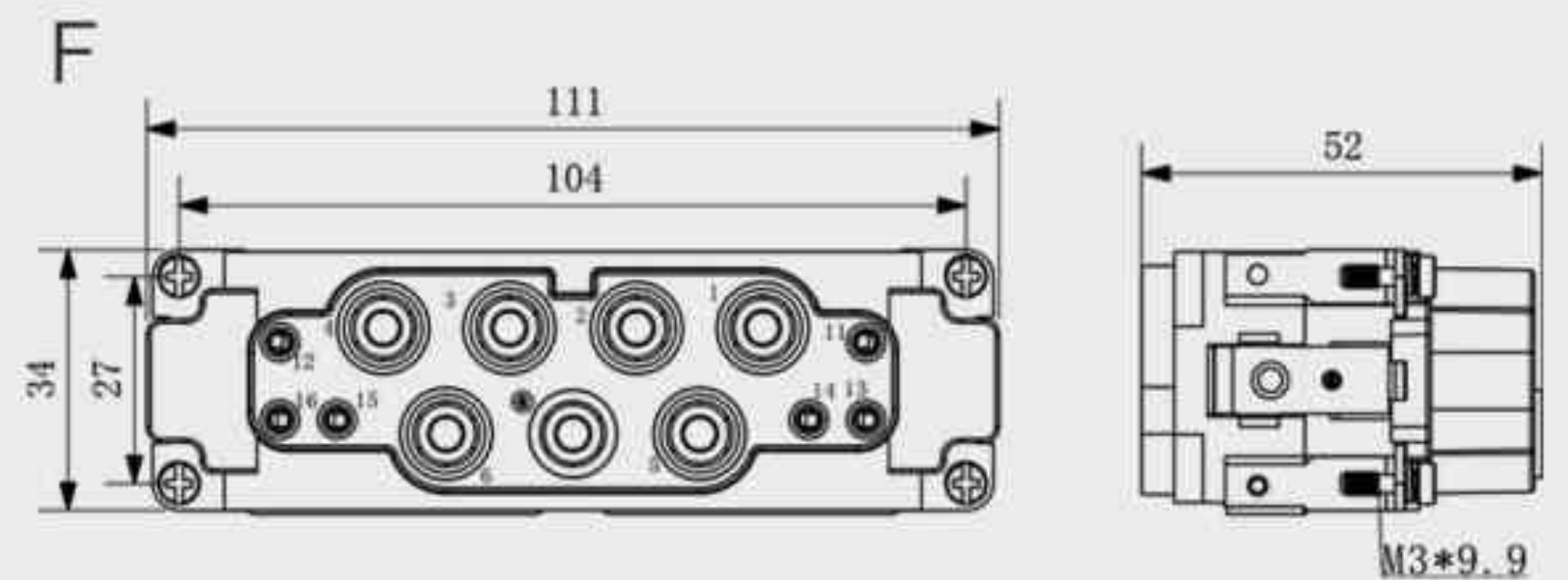
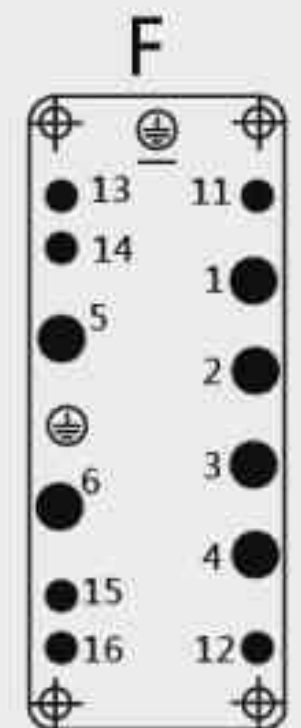
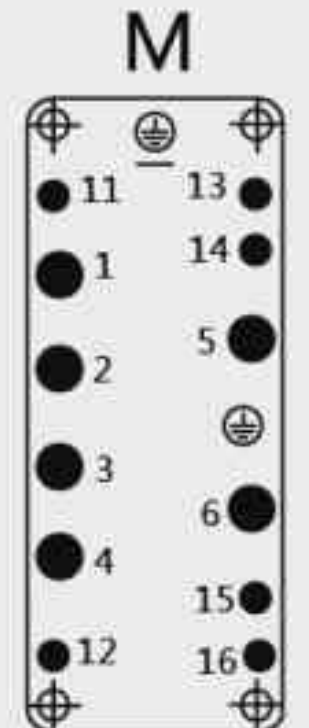


- ① Wire cross-sectional area : 35 mm²
 ② Wire cross-sectional area : 25 mm²
 ③ Wire cross-sectional area : 16 mm²

HK

HK-006/6
technical characteristics

Size **H24B**, detail please find the page 186-201

Identification	Type	Order No.	Drawing	Dimensions mm
Screw termination				
	HK-006/6-M	3 012 086 11 101		
	HK-006/6-F	3 012 086 11 102		
 HK-006/6 HK-006/6 Contacts arrangement view from termination side				

HK

Accessories

Tool	Insert	Type	Order No.
Hex key	For fastening the screw	SW-4	1 608 31 005



HK-006/36 technical characteristics



HK-006/36 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

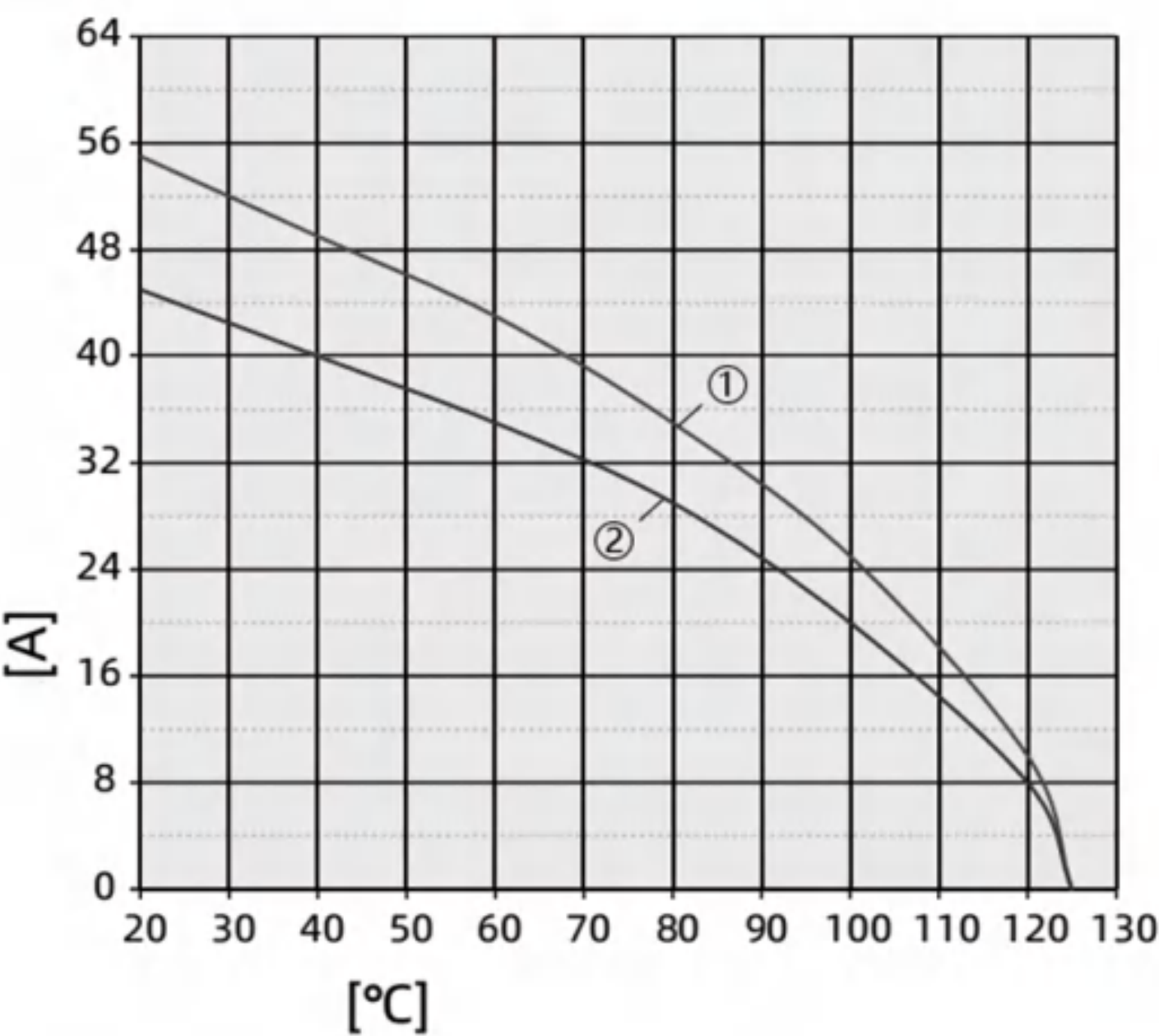
DIN EN 60 664
DIN EN 61 984

Inesrts

Number of contacts	6/36+PE
Electrical dataacc.to EN61 984	
Power zone	
Rated current	40A
Rated voltage	690V
Rated impulse voltage	8kV
Pollution degree	3
Signal area	
Rated current	10A
Rated voltage	160V
Rated impulse voltage	2.5kV
Pollution degree	3
Parameters when the pollution level is 2	10A 250V 4kV 2
According to the rated voltage of UL/CSA	600/300V
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40°C...+125°C
Flammability acc.to UL 94	V0
-Mating cycles	≥500

Contacts

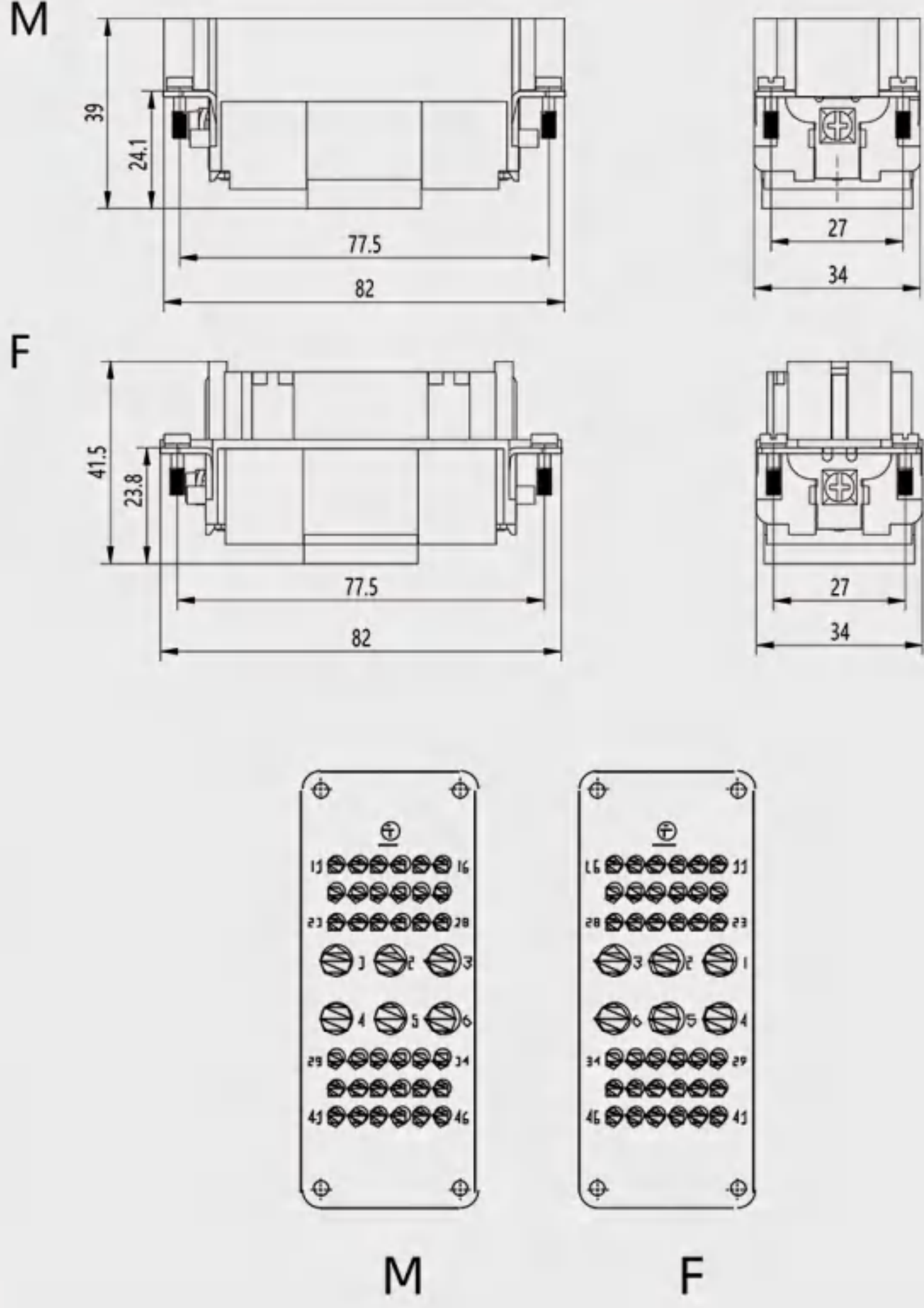
Electrical stimulation needle	
Materials	Copper alloy
Surface	Silver plating Gilding
Contact resistance	≤1mΩ
Crimp connection	
-mm ²	1.5-6mm ²
-AWG	16-10
Maximum insulation diameter	5mm
Signal needle	
Materials	Copper alloy
Surface treatment	Silver plating Gilding
Contact resistance	≤3mΩ
Crimp connection	
-mm ²	0.14-2.5mm ²
-AWG	26-14



- ① Wire cross-sectional area : 6.0mm²
- ② Wire cross-sectional area : 4.0mm²

HK-006/36
Technical characteristics

Size **H16B**, detail please find the page 171-185

Identification	Type	Order No.	Drawing	Dimensions mm
Screw termination 	HK-006/36-MC	3 042 086 20 101		
	HK-006/36-FC	3 042 086 20 102		

HK

Crimp contacts 40A/10A

Contact resistance $\leq 3\text{m}\Omega$ 	Application	Order No.	Designation	Order No.
	DSM-0.37	4 010 110 10 037	DSF-0.37	4 010 110 20 037
Contact resistance $\leq 3\text{m}\Omega$ 	DSM-0.5	4 010 110 10 050	DSF-0.5	4 010 110 20 050
	DSM-0.75	4 010 110 10 075	DSF-0.75	4 010 110 20 075
Contact resistance $\leq 0.3\text{m}\Omega$ 	DSM-1.0	4 010 110 10 100	DSF-1.0	4 010 110 20 100
	DSM-1.5	4 010 110 10 150	DSF-1.5	4 010 110 20 150
	DSM-2.5	4 010 110 10 250	DSF-2.5	4 010 110 20 250
	DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
	DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
	DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
	DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
	DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
	DGM-2.5	4 010 210 10 250	DGF-2.5	4 010 210 20 250
	Male	Order No.	Female	Order No.
	CMM-1.5	4 040 110 10 150	CMF-1.5	4 040 110 20 150
	CMM-2.5	4 040 110 10 250	CMF-2.5	4 040 110 20 250
	CMM-4.0	4 040 110 10 400	CMF-4.0	4 040 110 20 400
	CMM-6.0	4 040 110 10 600	CMF-6.0	4 040 110 20 600
	CMM-10.0	4 040 110 10 110	CMF-10.0	4 040 110 20 110

Wire gauge		Φ	Stripping length
0.14-0.37mm ²	AWG 26-22	0.9	8 mm
0.5mm ²	AWG 20	1.1	8 mm
0.75mm ²	AWG 18	1.3	8 mm
1mm ²	AWG 18	1.45	8 mm
1.5mm ²	AWG 16	1.75	8 mm
2.5mm ²	AWG 14	2.25	6 mm

Wire gauge		Φ	Stripping length
1.5 mm ²	AWG 16	1.75	9 mm
2.5mm ²	AWG 14	2.25	9 mm
4 mm ²	AWG 12	2.85	9.6 mm
6 mm ²	AWG 10	3.5	9.6 mm
10 mm ²	AWG 8	4.3	15 mm

The stripping length A = 15mm is applicable for cables with a diameter of $\geq 5\text{mm}$.
The stripping length A = 18mm is applicable for cables with a diameter of $\geq 6.4\text{mm}$.

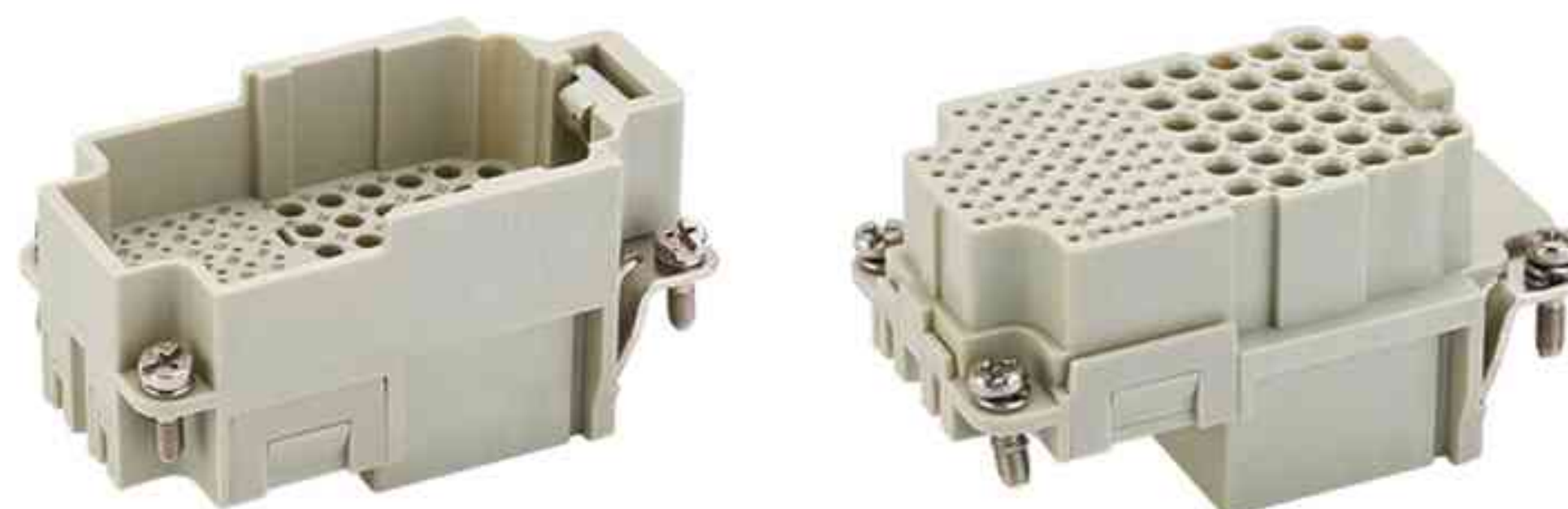
Accessories

Tool Crimping tool 	Application	Designation	Order No.
	0.37-4mm ²	WFT-LY01	5 000 100 00 001
Contact removal tool 	4-10mm ²	WFT-LY02	5 000 100 00 002

Application	Designation	Order No.
10A Terminal	WFT-HD01	5 000 200 00 003
40A Terminal	WFT-HM01	5 000 200 00 001

HK-032/55

HK-032/55 technical characteristics



HK-032/55 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

DIN EN 60 664
DIN EN 61 984

HK

Inserts

Number of pin	32/55
Electrical data acc. to EN 61984	
Signal area	
Rated current	4A
Rated voltage	50V
Rated impulse voltage	0.8kV
Pollution degree	2
Power zone	
Rated current	10A
Rated voltage	250V
Rated impulse voltage	4kV
Pollution degree	2
Rated voltage acc.to UL/CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C ...+125°C
Flammability acc.to UL94	V0
Mechanical working life (mating cycles)	≥ 500

Contacts

Material	Copper alloy
Surface	Gilding Silver plating
Contact resistance	$\leq 3m\Omega$
Wire gauge	
-mm ²	0.09-0.52mm ² /0.14-2.5mm ²
-AWG	28-20/26-14
Striping length	5/8mm

For **H10B**, Hood/Housing Please Refer Page No. 156-170

HK

Crimp contacts 5A

a	b	c	d	e	f
8.10	4.0	14.8	0.64	1.66	14.4
8.10	4.0	14.8	0.90	1.66	14.4
8.10	4.0	14.8	1.12	1.66	14.4
8.23	4.2	14.0	1.35	1.75	13.6

Wire gauge	Stripping length
0.09-0.25mm ²	AWG28-24
0.25-0.33mm ²	AWG26-22
0.33-0.52mm ²	AWG22-20
0.52-0.82mm ²	AWG22-18

		Male	Order No.	Female	Order No.
 Contact resistance $\leq 3\text{m}\Omega$	Silver plated	DSM-0.37	4 010 110 10 037	DSF-0.37	4 010 110 20 037
		DSM-0.5	4 010 110 10 050	DSF-0.5	4 010 110 20 050
		DSM-0.75	4 010 110 10 075	DSF-0.75	4 010 110 20 075
		DSM-1.0	4 010 110 10 100	DSF-1.0	4 010 110 20 100
		DSM-1.5	4 010 110 10 150	DSF-1.5	4 010 110 20 150
		DSM-2.5	4 010 110 10 250	DSF-2.5	4 010 110 20 250
	Gold plated	DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
		DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
		DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
		DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
		DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
		DGM-2.5	4 010 210 10 250	DGF-2.5	4 010 210 20 250

Wire gauge	Φ	Stripping length
0.14-0.37mm ² AWG 26-22	0.9	8 mm
0.5mm ² AWG 20	1.1	8 mm
0.75mm ² AWG 18	1.3	8 mm
1mm ² AWG 18	1.45	8 mm
1.5mm ² AWG 16	1.75	8 mm
2.5mm ² AWG 14	2.25	6 mm

Tool Crimping tool 	Wire gauge	Designation	Order No.
	0.09-0.82mm ²	WFT-LY04	5 000 100 00 005
	0.37-4mm ²	WFT-LY01	5 000 100 00 001
Contact removal tool 	Application	Designation	Order No.
	5A Terminal	WFT-S01	5 000 200 00 004
	10A Terminal	WFT-HD01	5 000 200 00 003

HK-12/2
technical characteristics



HK-12/2 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

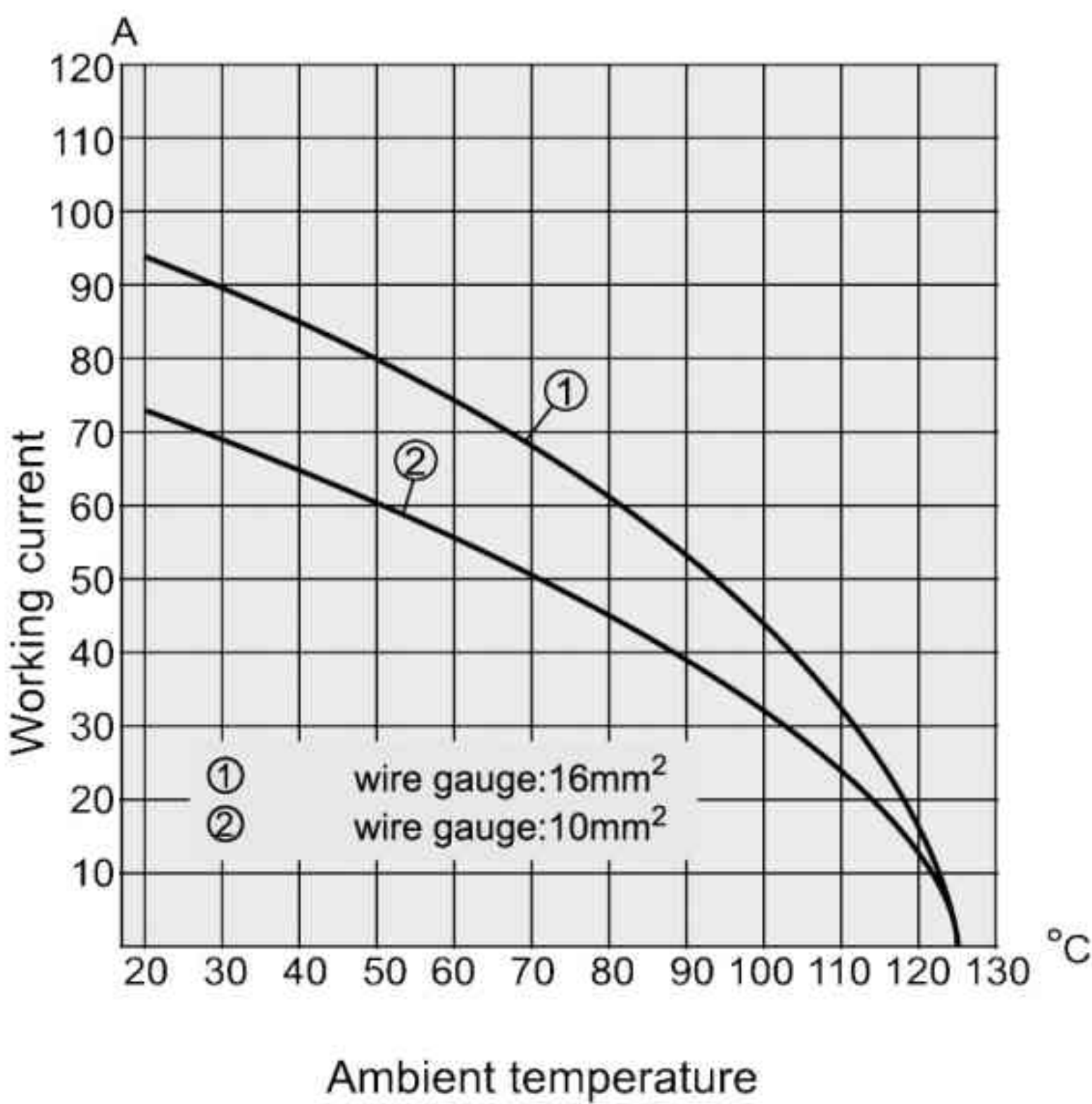
DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inesrts

Number of contacts	12/2 +PE
Working current (See current carrying capacity)	
Power area	40A
Signal area	10A
Working voltage	
Power area	690V
Signal area	250V
Pollution degree	3
Rated impulse voltage	
Power area	8KV
Signal area	4KV
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600V/300V
Mechanical working life(mating cycles)	≥ 500

Contacts

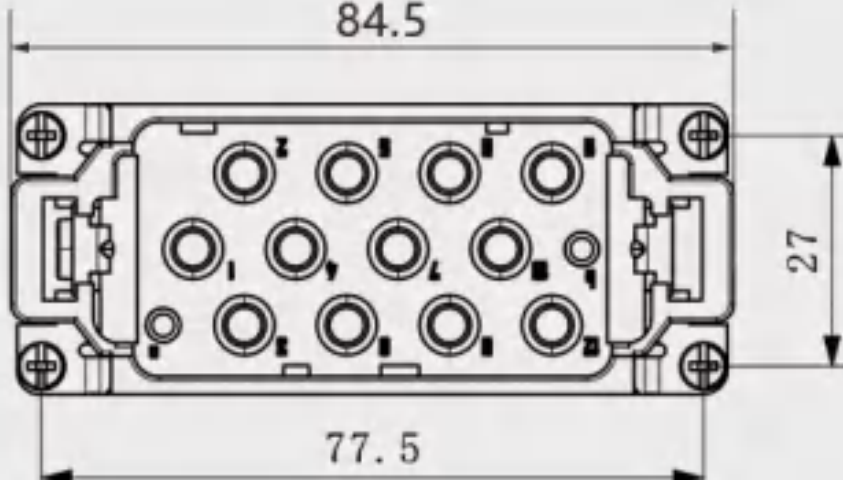
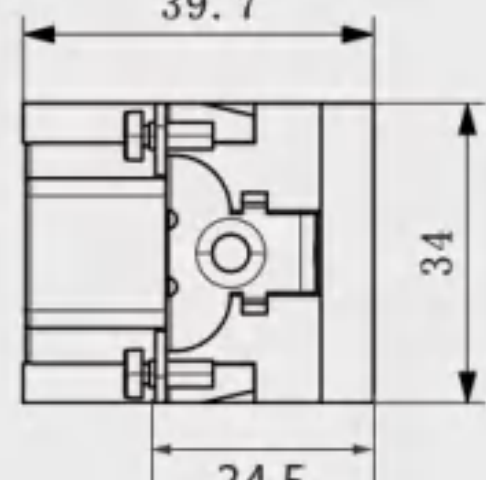
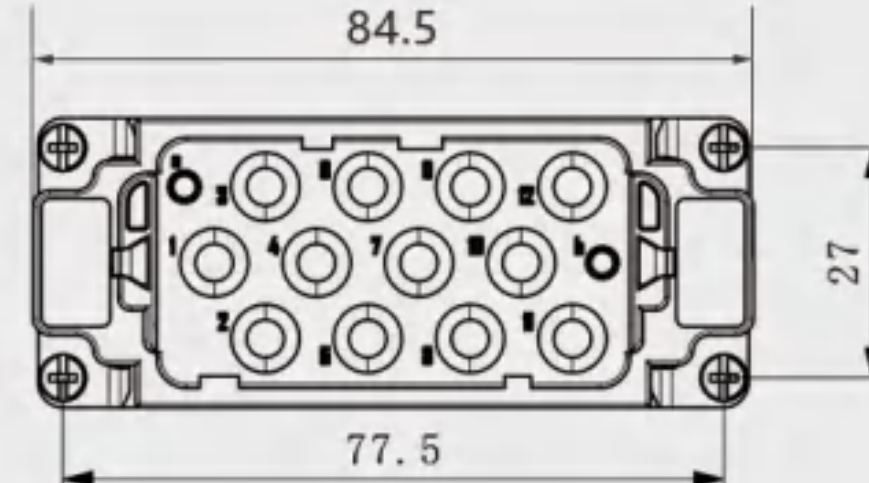
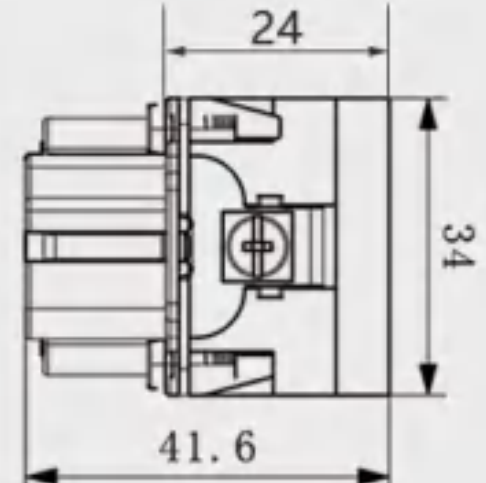
Material	Copper alloy
Surface	Hard silver-plated Hard gold-plated
Contact resistance	Power area $\leq 1 \text{ m}\Omega$ Signal area $\leq 3 \text{ m}\Omega$
Wiring method	Crimp connection
Wire gauge	Power area 1.5-6 mm ² AWG16-10 Signal area 0.14-2.5mm ² AWG26-14



HK

HK-12/2+

For **H16B**,Hood/Housing Please Refer Page No. 171-185

Identification	Type	Order No.	Drawing	Dimensions mm
Screw termination  	HK-012/2-M	3 012 082 20 101	M 	
	HK-012/2-F	3 012 082 20 102	F 	

HK

Crimp contacts 40A/10A

Contact resistance $\leq 3\text{m}\Omega$  	Application	Order No.	Designation	Order No.
	DSM-0.37	4 010 110 10 037	DSF-0.37	4 010 110 20 037
	DSM-0.5	4 010 110 10 050	DSF-0.5	4 010 110 20 050
	DSM-0.75	4 010 110 10 075	DSF-0.75	4 010 110 20 075
	DSM-1.0	4 010 110 10 100	DSF-1.0	4 010 110 20 100
	DSM-1.5	4 010 110 10 150	DSF-1.5	4 010 110 20 150
Contact resistance $\leq 3\text{m}\Omega$  	Application	Order No.	Designation	Order No.
	DGM-0.37	4 010 210 10 037	DGF-0.37	4 010 210 20 037
	DGM-0.5	4 010 210 10 050	DGF-0.5	4 010 210 20 050
	DGM-0.75	4 010 210 10 075	DGF-0.75	4 010 210 20 075
	DGM-1.0	4 010 210 10 100	DGF-1.0	4 010 210 20 100
	DGM-1.5	4 010 210 10 150	DGF-1.5	4 010 210 20 150
Contact resistance $\leq 0.3\text{m}\Omega$  	Application	Order No.	Designation	Order No.
	CMM-1.5	4 040 110 10 150	CMF-1.5	4 040 110 20 150
	CMM-2.5	4 040 110 10 250	CMF-2.5	4 040 110 20 250
	CMM-4.0	4 040 110 10 400	CMF-4.0	4 040 110 20 400
	CMM-6.0	4 040 110 10 600	CMF-6.0	4 040 110 20 600
	CMM-10.0	4 040 110 10 110	CMF-10.0	4 040 110 20 110

Wire gauge		Φ	Stripping length
0.14-0.37mm ²	AWG 26-22	0.9	8 mm
0.5mm ²	AWG 20	1.1	8 mm
0.75mm ²	AWG 18	1.3	8 mm
1mm ²	AWG 18	1.45	8 mm
1.5mm ²	AWG 16	1.75	8 mm
2.5mm ²	AWG 14	2.25	6 mm

Wire gauge		Φ	Stripping length
1.5 mm ²	AWG 16	1.75	9 mm
2.5mm ²	AWG 14	2.25	9 mm
4 mm ²	AWG 12	2.85	9.6 mm
6 mm ²	AWG 10	3.5	9.6 mm
10 mm ²	AWG 8	4.3	15 mm

The stripping length A = 15mm is applicable for cables with a diameter of $\geq 5\text{mm}$.

The stripping length A = 18mm is applicable for cables with a diameter of $\geq 6.4\text{mm}$.

Accessories

Tool Crimping tool 	Application	Designation	Order No.
	0.37-4mm ²	WFT-LY01	5 000 100 00 001
	4-10mm ²	WFT-LY02	5 000 100 00 002
Contact removal tool 	Application	Designation	Order No.
	10A Terminal	WFT-HD01	5 000 200 00 003
	40A Terminal	WFT-HM01	5 000 200 00 001

HWK-6/6

technical characteristics



HWK-6/6 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

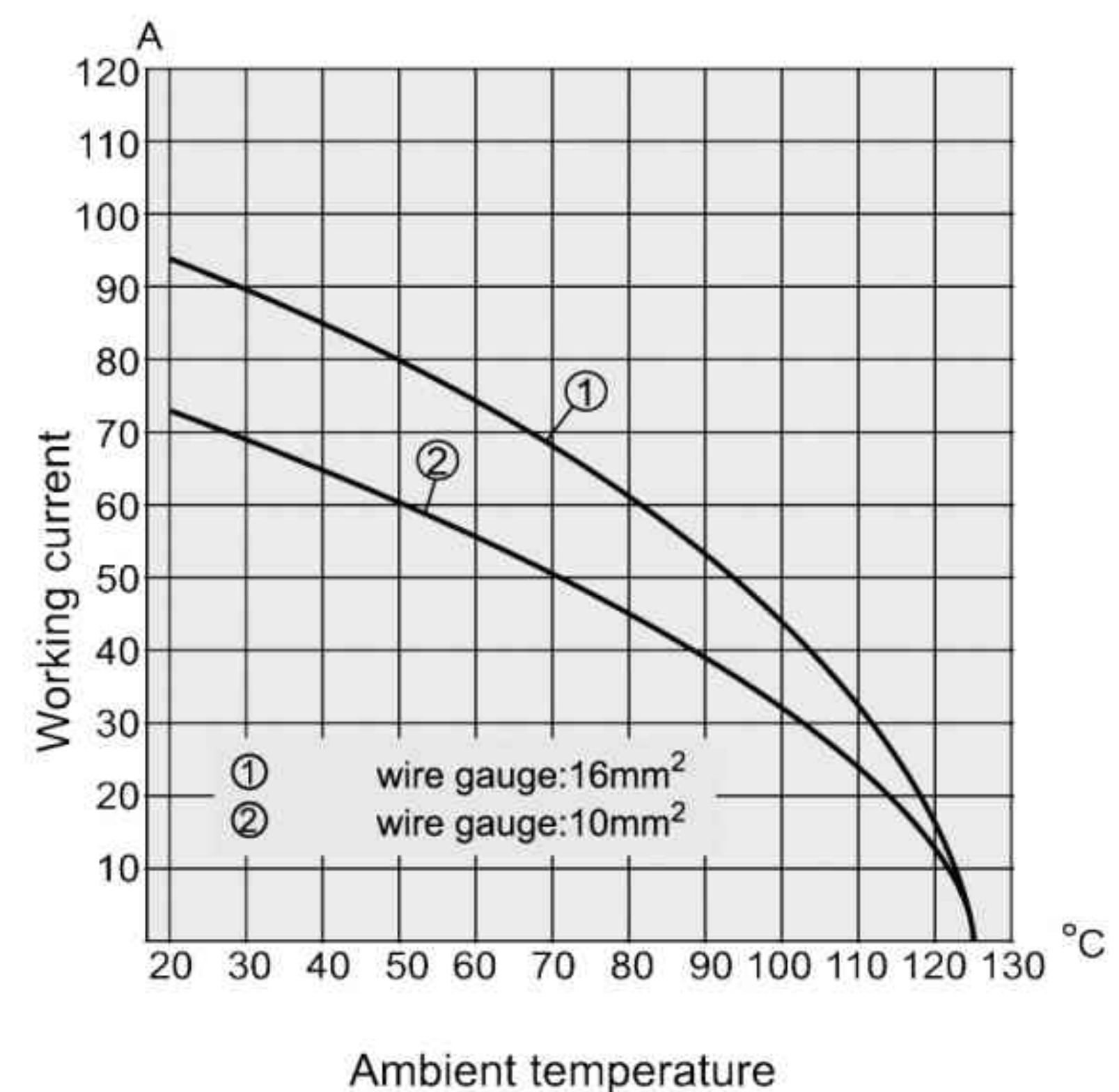
DIN VDE 0627
DIN VDE 0110
DIN EN 61984

Inserts

Number of contacts	6/6 +PE
Working current (See current carrying capacity)	
Power area	40A
Signal area	16A
Working voltage	
Power area	690V
Signal area	400V
Pollution degree 2	
Power area	1000V
Signal area	400/690V
Pollution degree	3
Rated impulse voltage	
Power area	8KV
Signal area	6KV
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C... +125°C
Flammability acc.to UL94	V0
Working voltage acc.to UL/CSA	600V/600V
Mechanical working life(mating cycles)	≥ 500

Contacts

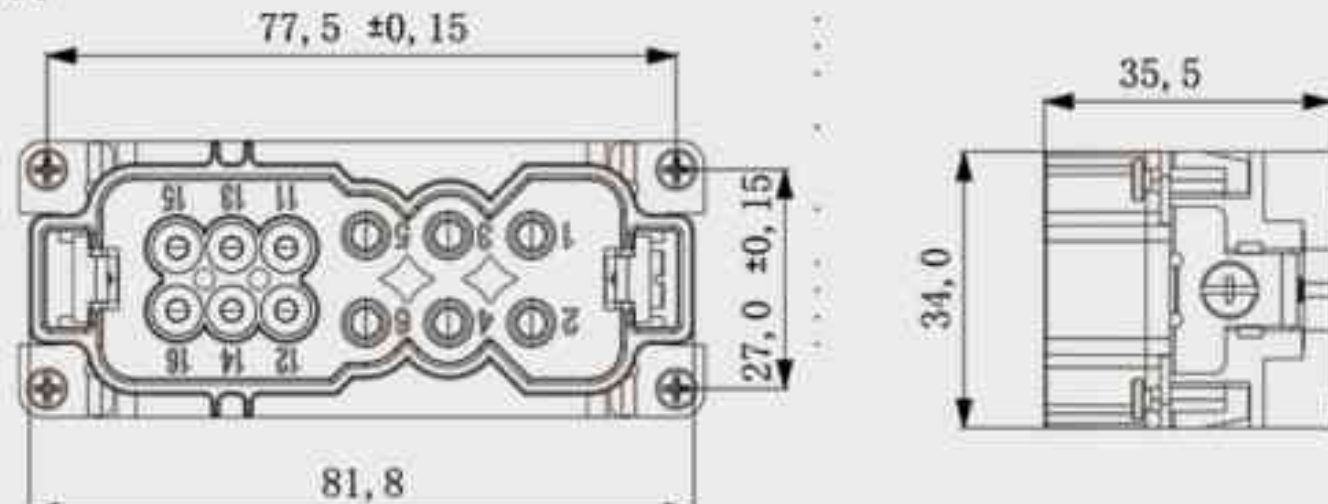
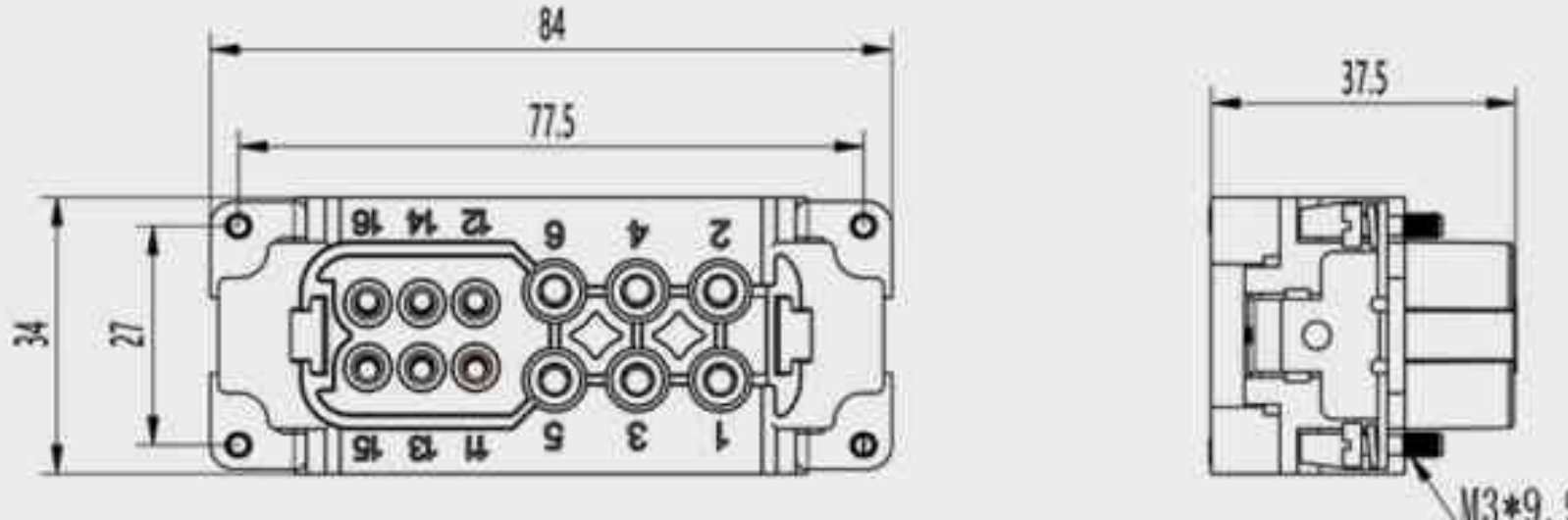
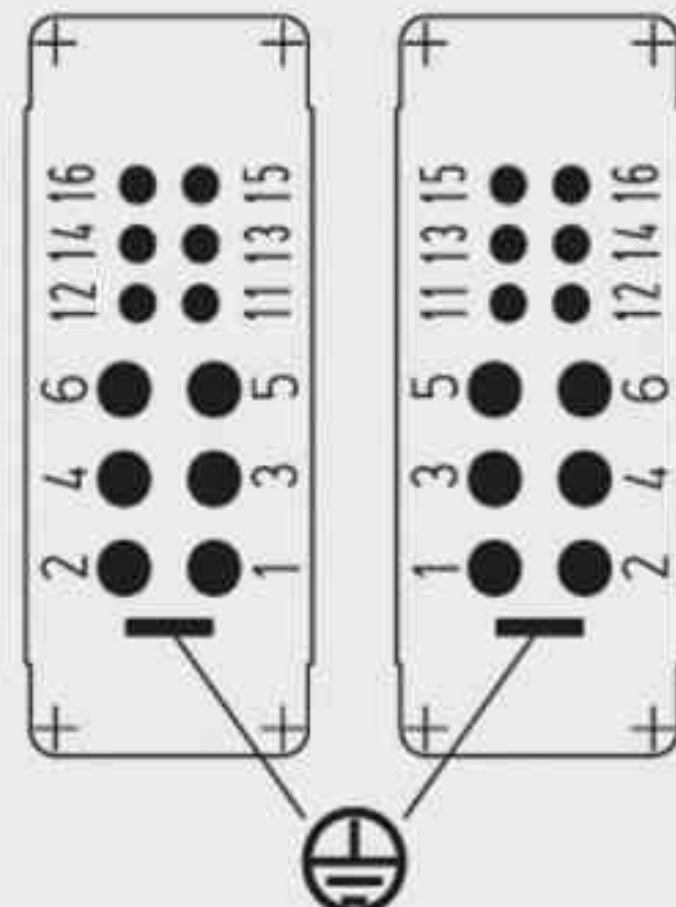
Material	Copper alloy						
Surface	Hard silver-plated Hard gold-plated						
Contact resistance	Power area		≤ 1 mΩ				
	Signal area		≤ 1 mΩ				
Wiring method	Screw terminal						
Wire gauge	Power area		4-10 mm ² AWG12-8				
	Signal area		1-2.5 mm ² AWG18-4				
Tighening torque	Power area						
	mm ²	1.5	2.5	4	6	10	16
	N.m	1.2	2	3	3	3	3
	Signal area		0.5 N.m				



HWK

HWK-6/6+ ⚡

For **H16B**,Hood/Housing Please Refer Page No. 171-185

Identification	Type	Order No.	Drawing	Dimensions mm
Screw connection				
 	HWK-006/6-M	3 006 086 10 101	M  F 	
			Distance for contact max.21mm	
			M F 	
			Contacts arrangement view from termination side	

HWK



HQ

Compact and small-sized connector

HQ-003/0
HQ-003/0 technical characteristics

HQ-003/0 technical characteristics
Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

HQ
Specifications

DIN EN 60 664
DIN EN 61 984

Inserts

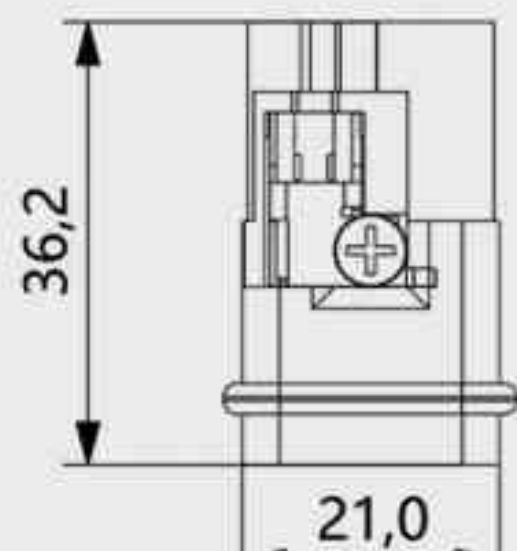
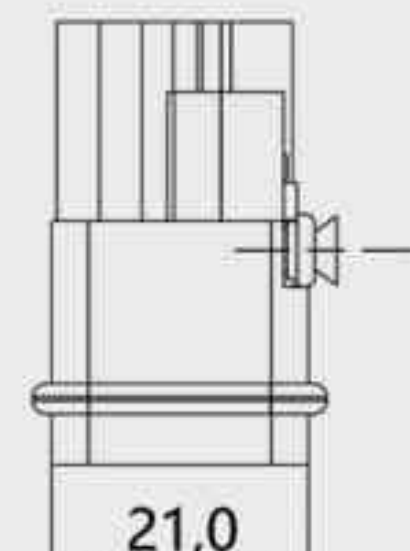
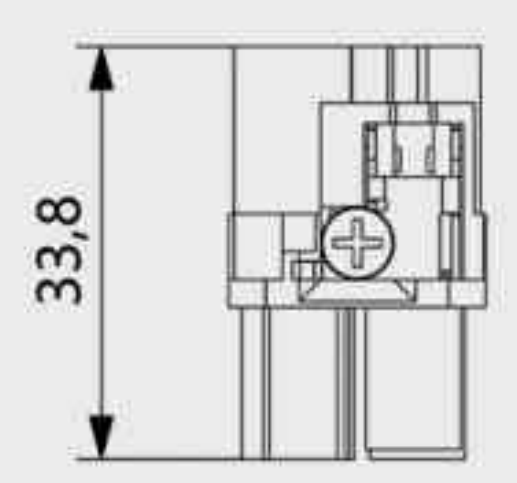
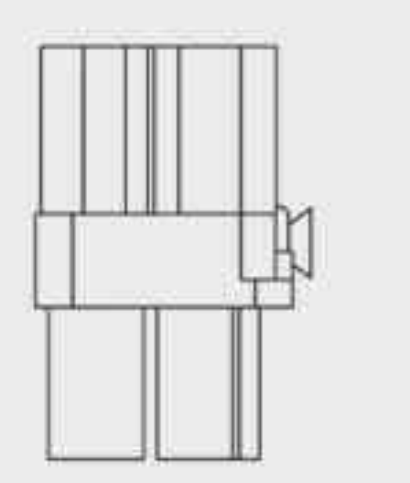
Number of pin	3+PE
Electrical data acc. to EN 61984	
Working current	40A
Working voltage conductor-ground	6kV
Working voltage conductor-conductor	400V
Rated impulse voltage	
Pollution degree	3
Pollution degree 2	
Rated voltage acc.to UL/CSA	600V
Insulation resistance	$\geq 10^{10}\Omega$
Material	Polycarbonate
Temperature range	-40° C..+125° C
Flammability acc.to UL94	V0
Mechanical working life (mating cycles)	≥ 500

Contacts

Wiring method	Cold pressing connection
Material	Copper alloy
Surface	Gilding Silver plating
Contact resistance	$\leq 1\text{m}\Omega$
Wire gauge	
-mm ²	1.5-10mm ²
-AWG	16-8

HQ-003/0-MC
HQ-003/0-FC

For **H3A**,Hood/Housing Please Refer Page No. 134-139

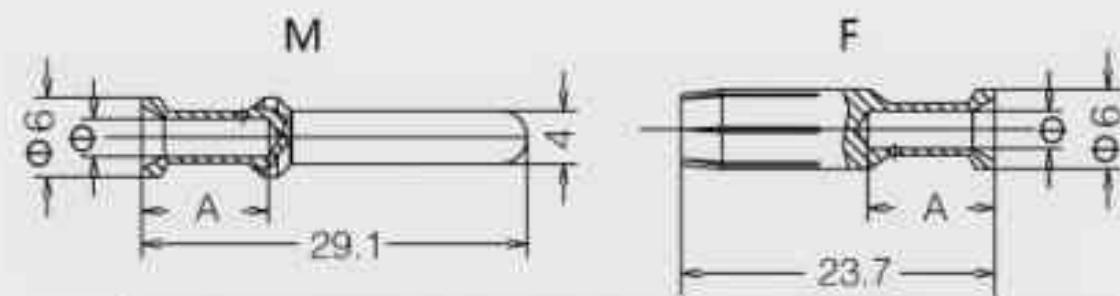
Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection			Size	
			M	
	HQ-003/0-MC	3 002 090 20 101		
	HQ-003/0-FC	3 002 090 20 102	F	
				
Crimp contacts 40A				

HQ

Contact resistance $\leq 0.3m\Omega$
silver plated



	Male	Order No.	Female	Order No.
	CMM-1.5	4 040 110 10 150	CMF-1.5	4 040 110 20 150
	CMM-2.5	4 040 110 10 250	CMF-2.5	4 040 110 20 250
	CMM-4.0	4 040 110 10 400	CMF-4.0	4 040 110 20 400
	CMM-6.0	4 040 110 10 600	CMF-6.0	4 040 110 20 600
	CMM-10.0	4 040 110 10 110	CMF-10.0	4 040 110 20 110



Wire gauge		Φ	Strip length
1.5 mm ²	AWG 16	1.75	9 mm
2.5mm ²	AWG 14	2.25	9 mm
4 mm ²	AWG 12	2.85	9.6 mm
6 mm ²	AWG 10	3.5	9.6 mm
10 mm ²	AWG 8	4.3	15 mm

The stripping length A = 15mm is applicable for cables with a diameter of $\geq 5mm$.
The stripping length A = 18mm is applicable for cables with a diameter of $\geq 6.4mm$.

Accessories

Tool

Crimping tool



Contact removal tool



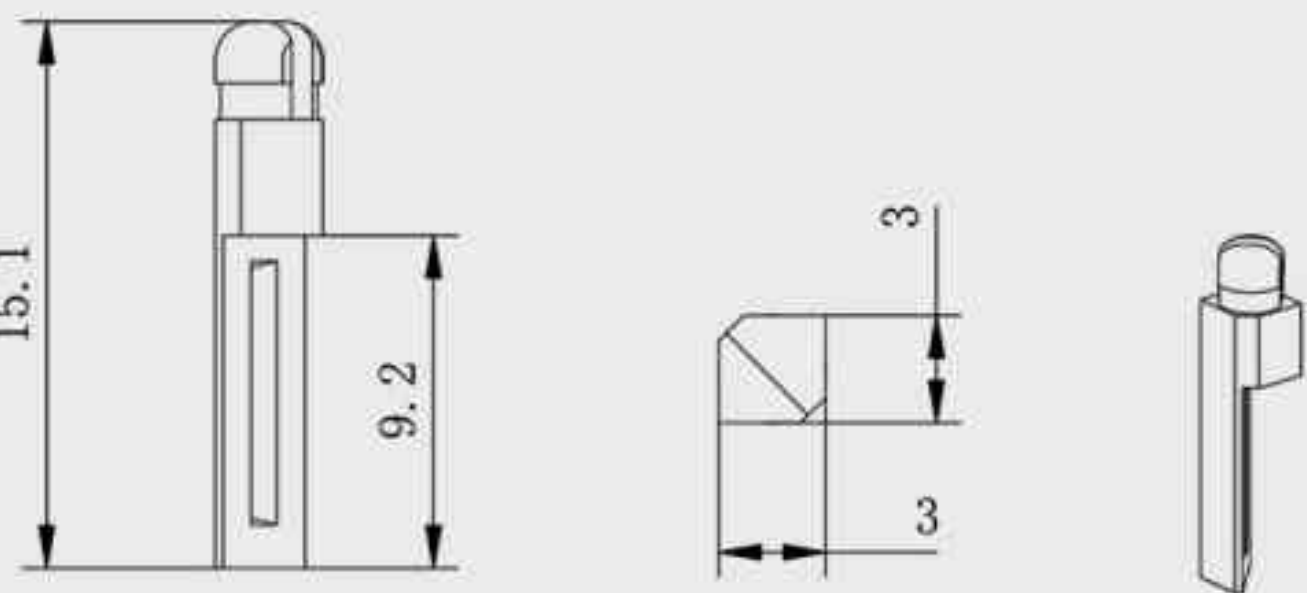
Coding element



Wire gauge	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001
4-10mm ²	WFT-LY02	5 000 100 00 002

Application	Designation	Order No.
40A Terminal	WFT-HM01	5 000 200 00 001

Description	Designation	Order No.
Fool-proof, Pin	CODE-Q12	3 012 091 00 100



HQ-005

HQ-005 technical characteristics



HQ-005 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

HQ

Specifications

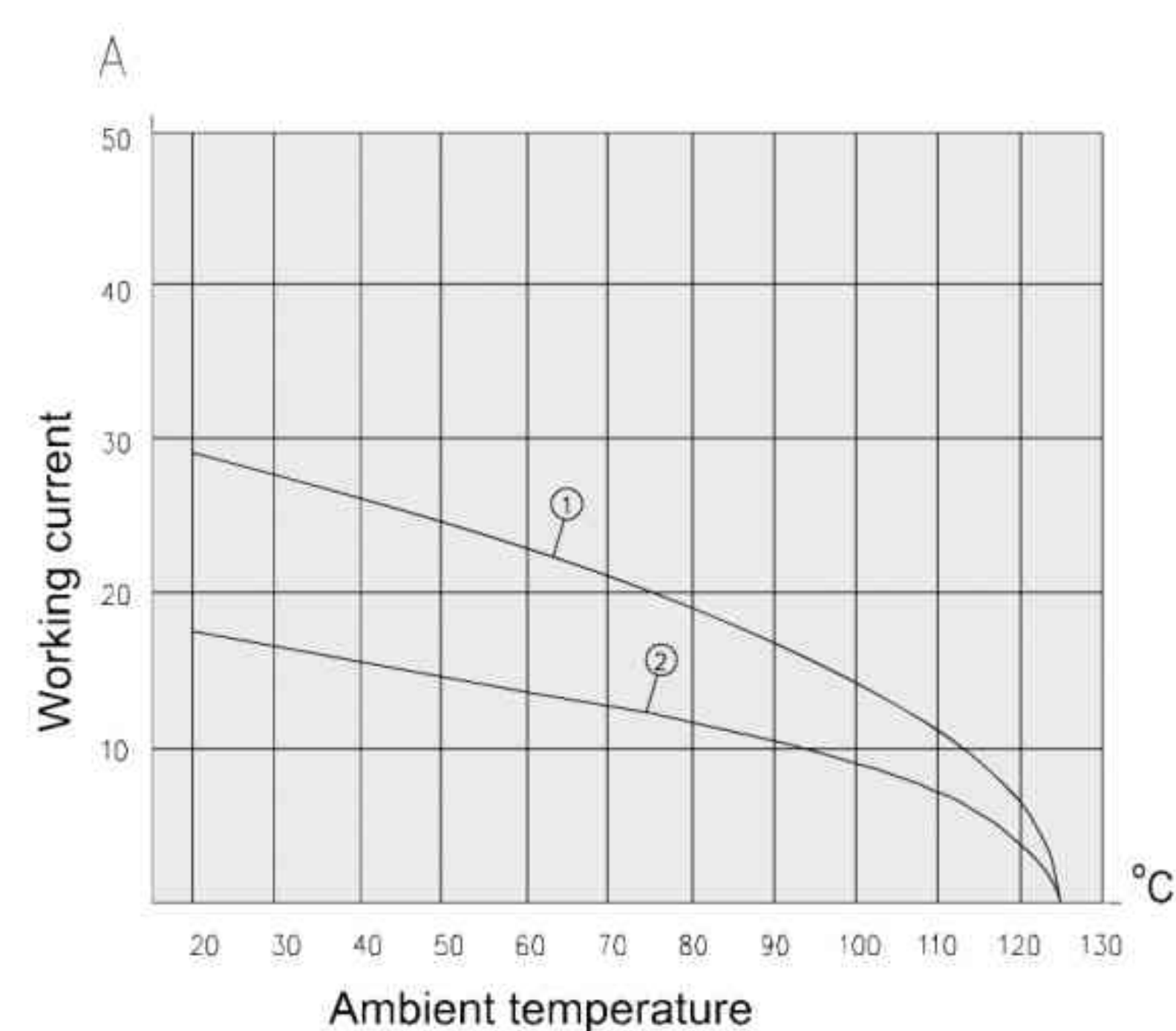
DIN VDE 0110
DIN EN 61984

Inserts

Number of pin	5+PE
Electrical data acc. to EN 61984	16A 230/400V 4kV 3
Working current	
Working voltage conductor-ground	
Working voltage conductor-conductor	
Rated impulse voltage	
Pollution degree	
Pollution degree 2	16A 320/500V 4kV 2
Rated voltage acc.to UL/CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	PC
Temperature range	-40° C..+125° C
Flammability acc.to UL94	V0
Mechanical working life (mating cycles)	≥ 500

Contacts

Material	Copper alloy
Surface	
silver plated	
Contact resistance	$\leq 1 m\Omega$
Crimp connection	
-mm ²	0.14-4mm ²
-AWG	26-14

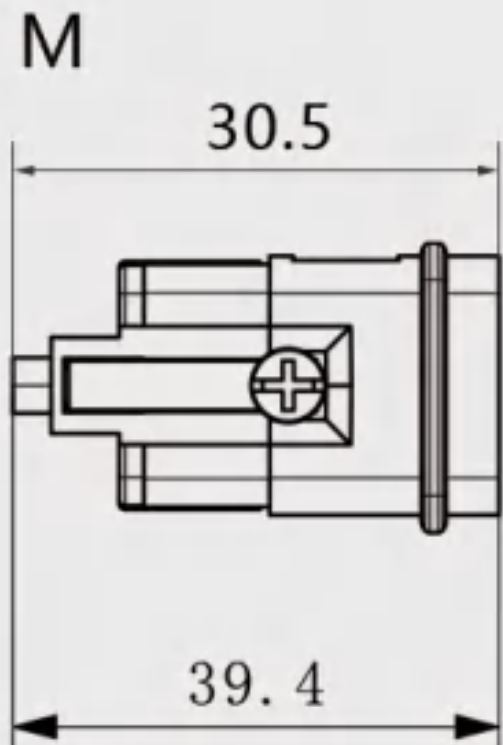
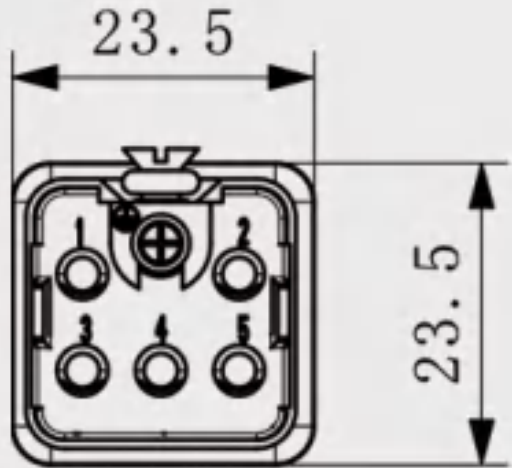
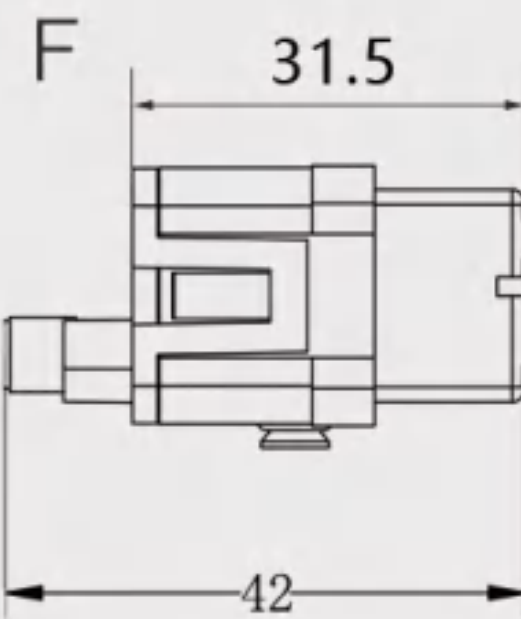
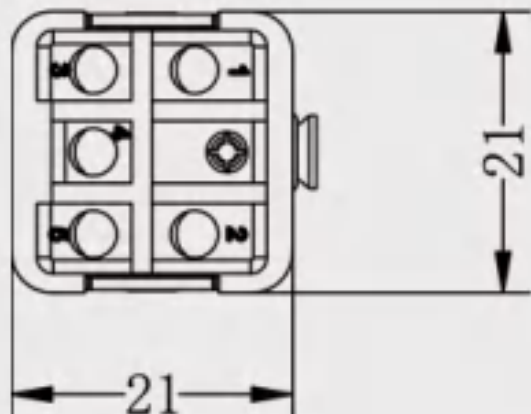


① wire gauge: 2.5mm²

② wire gauge: 1.5mm²

HQ-005-F
HQ-005-M

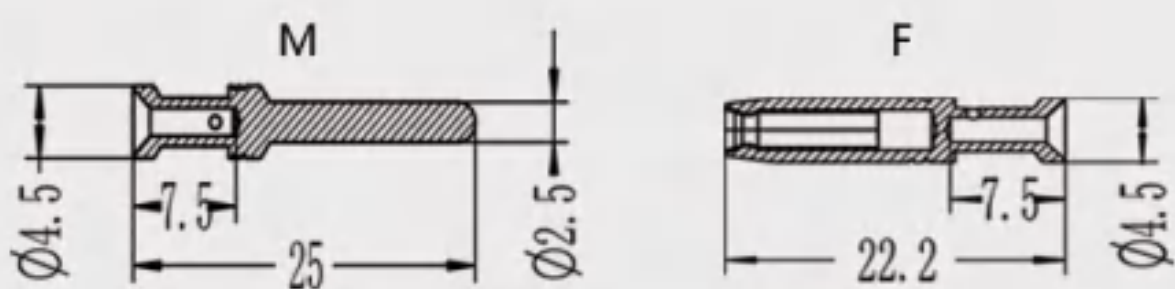
For **H3A**,Hood/Housing Please Refer Page No. 134-139

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection			Size	
			M	
	HQ-005-M	3 005 090 20 101		
	HQ-005-F	3 005 090 20 102		
Crimp contacts 16A				

HQ

Contact resistance ≤1mΩ

 	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
	ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037
	ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
	ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
	ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
	ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
	ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
 	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
	ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037
	ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
	ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
	ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
	ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
	ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
	ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400



Identification	Wire gauge		Stripping length
no groove	0.14-0.37mm ²	AWG 26-22	7.5mm
no groove	0.5mm ²	AWG 20	7.5mm
1 groove	0.75mm ²	AWG 18	7.5mm
1 groove	1mm ²	AWG 18	7.5mm
2 groove	1.5mm ²	AWG 16	7.5mm
3 groove	2.5mm ²	AWG 14	7.5mm
wide groove	3mm ²	AWG 12	7.5mm
no groove	4mm ²	AWG 12	7.5mm

Accessories

Tool
Crimping tool



Contact removal tool



Wire gauge	Designation	Order No.
0.37-4mm ²	WFT-LY01	5 000 100 00 001

Application	Designation	Order No.
16A Terminal	WFT-HEE01	5 000 200 00 002

HQ-007 , HQ-012

HQ-007 , HQ-012 technical characteristics



HQ-007、 HQ-012 TECHNICAL CHARACTERISTICS

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

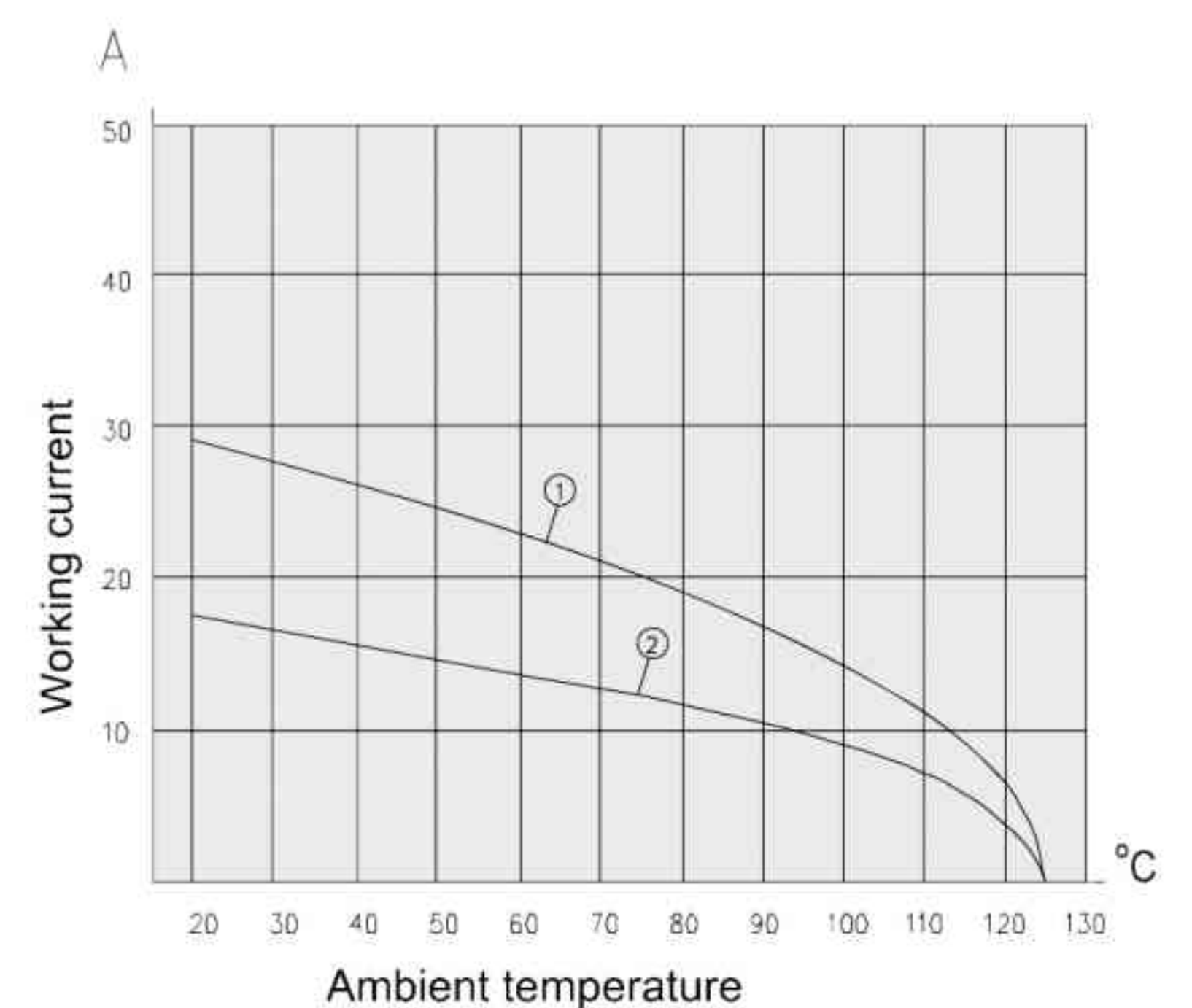
HQ

Specifications

DIN VDE 0110
DIN EN 61984

Inesrts

Number of pin	7+PE、 12+PE
Electrical data acc.to EN 61984	
Working current	10A
Working voltage	400V
Rated impulse voltage	6kV
Pollution degree	3
Pollution degree 2	10A 400/690V 6kV 2
Rated voltage acc.to UL/CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C....+125°C
Flammability acc.to UL94	V0
Mechanical working life(Mating cycles)	≥ 500



① wire gauge:2.5mm²

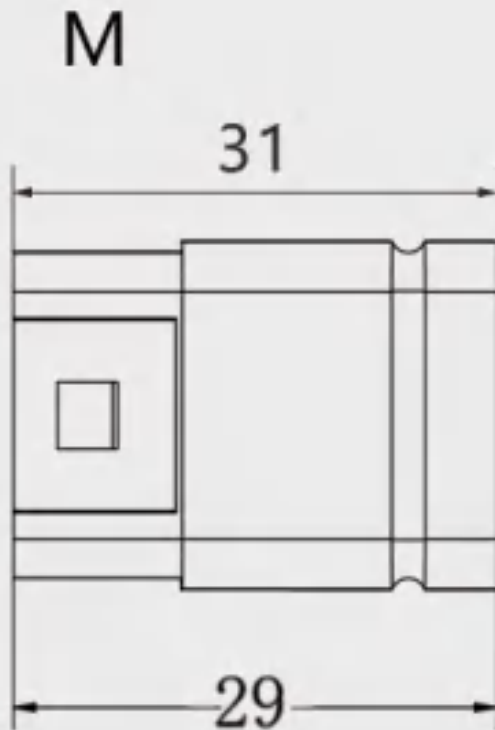
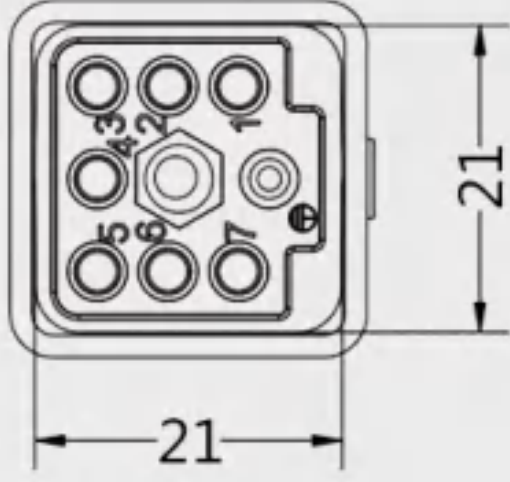
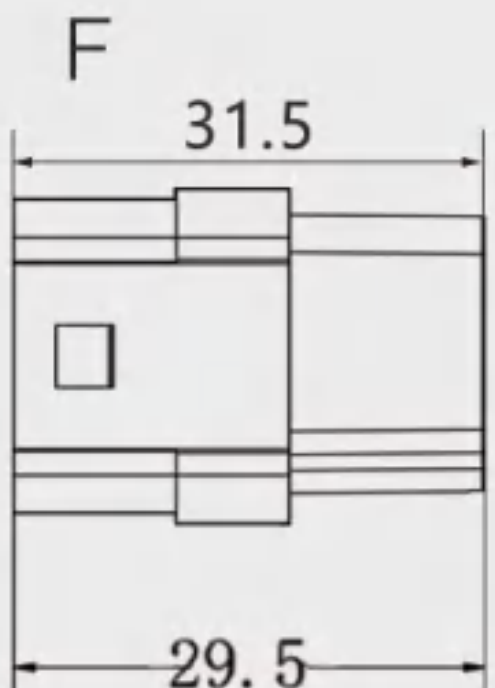
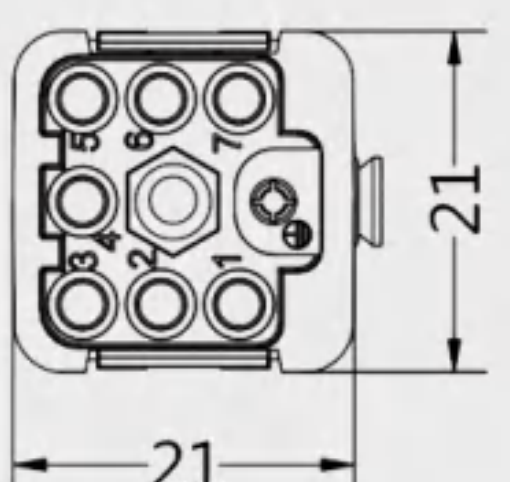
② wire gauge:1.5mm²

Contacts

Material	Copper alloy
Surface	
silver plated	
Contact resistance	$\leq 1m\Omega$
Crimp connection	
-mm2	0.14-4mm2
-AWG	26-14

HQ-007-F
HQ-007-M

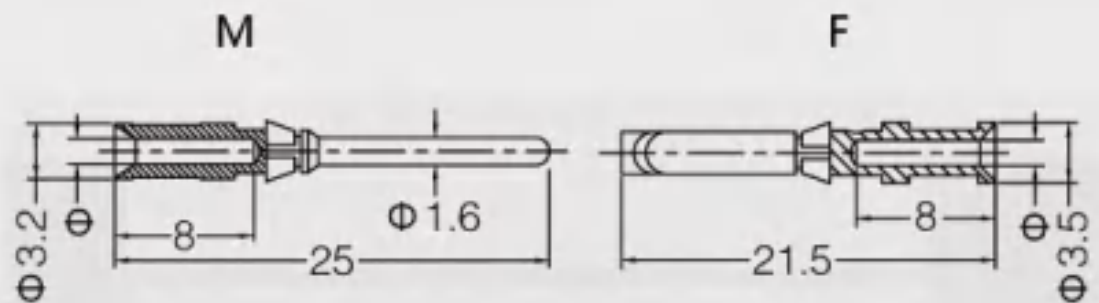
For **H3A**,Hood/Housing Please Refer Page No. 134-139

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection			Size	
			M	
	HQ-007-M	3 007 090 20 101		
	HQ-007-F	3 007 090 20 102		

HQ

10A Crimp contacts

	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
	DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
	DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
	DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
	DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
	DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
	DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
	DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
	DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
	DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
	DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
	DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250



Wire gauge		Φ	Stripping length
0.14-0.37mm²	AWG 26-22	0.9	8 mm
0.5mm²	AWG 20	1.1	8 mm
0.75mm²	AWG 18	1.3	8 mm
1mm²	AWG 18	1.45	8 mm
1.5mm²	AWG 16	1.75	8 mm
2.5mm²	AWG 14	2.25	6 mm

Accessories

Tool
Crimping tool



Contact removal tool



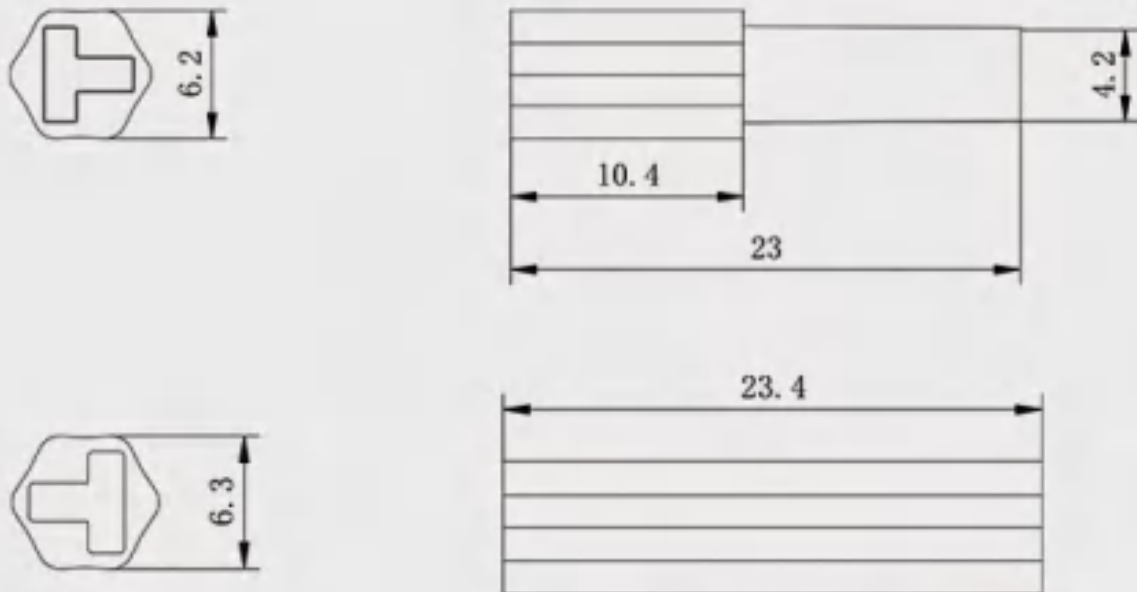
Coding element



Wire gauge	Designation	Order No.
0.37-4mm²	WFT-LY01	5 000 100 00 001

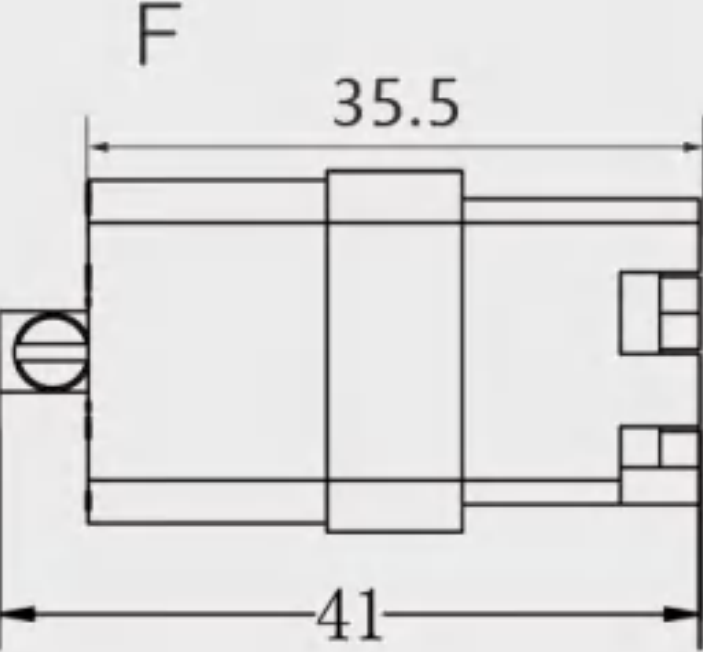
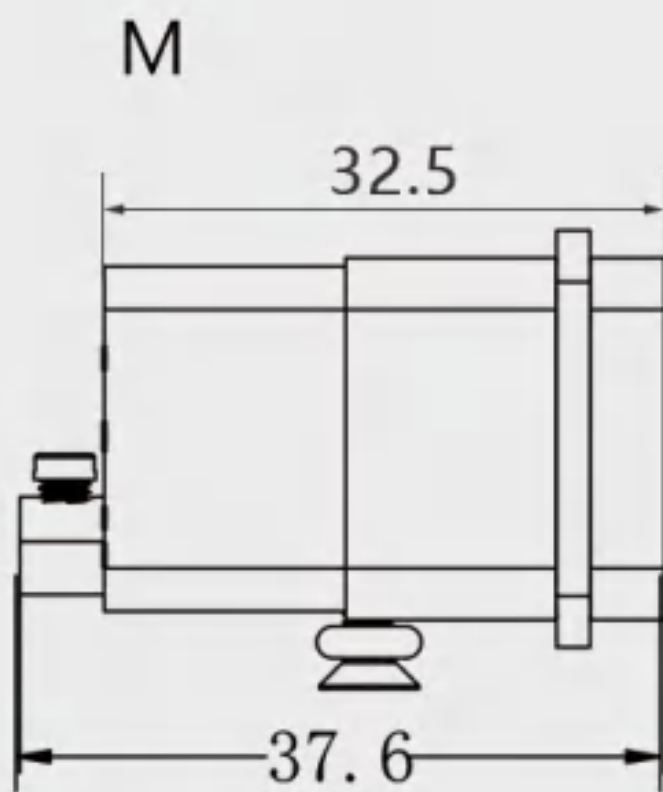
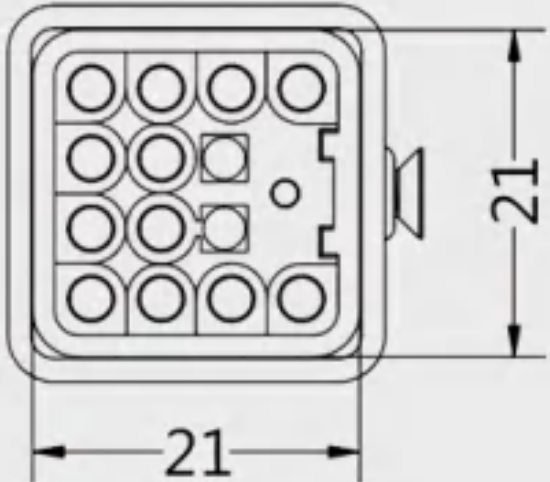
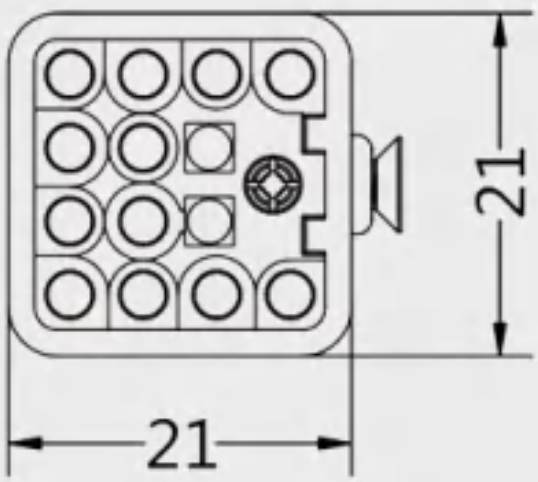
Application	Designation	Order No.
10A Terminal	WFT-HD01	5 000 200 00 003

Description	Category	Type	Order No.
	Male	CODE-Q7M	3 007 091 00 101
Fool-proof, Pin	Female	CODE-Q7F	3 007 091 00 102



HQ-012-F
HQ-012-M

For H3A,Hood/Housing Please Refer Page No. 134-139

Identification	Type	Order No.	Drawing	Dimensions mm
Crimp connection 	HQ-012-M	3 012 090 20 101	Size 	 
	HQ-012-F	3 012 090 20 102		

10A Crimp contacts

	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
	DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
	DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
	DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
	DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
	DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
	DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
	DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
	DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
	DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
	DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
	Contacts,Silver-plated	Order No.	Contacts,Gold-plated	Order No.
	DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250

M

F

Wire gauge		Φ	Stripping length
0.14-0.37mm ²	AWG 26-22	0.9	8 mm
0.5mm ²	AWG 20	1.1	8 mm
0.75mm ²	AWG 18	1.3	8 mm
1mm ²	AWG 18	1.45	8 mm
1.5mm ²	AWG 16	1.75	8 mm
2.5mm ²	AWG 14	2.25	6 mm

HQV-002

HQV-002 technical characteristics



HQV-002 TECHNICAL CHARACTERISTICS

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3

Specifications

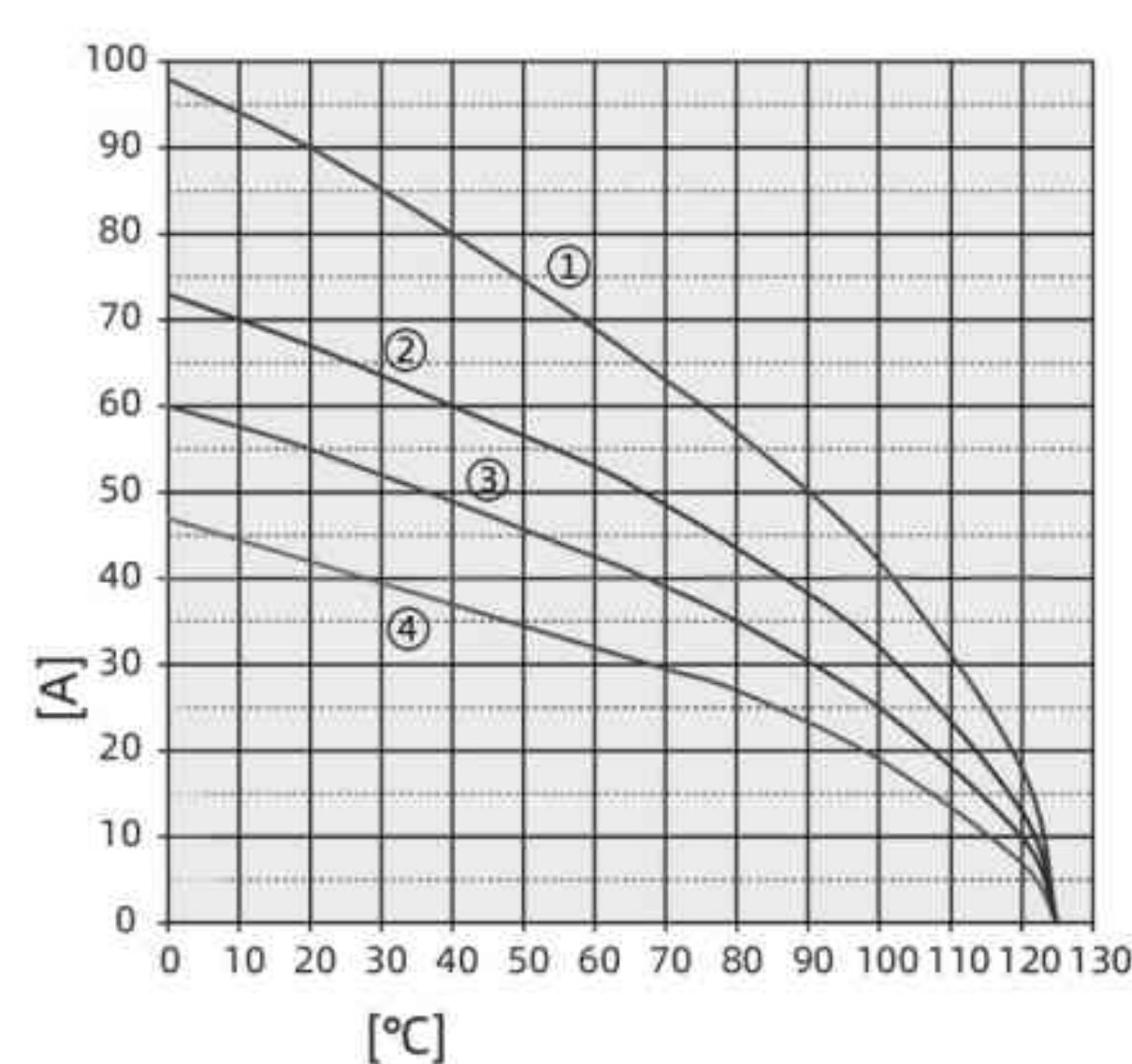
DIN VDE 0110
DIN EN 61984

Inserts

Number of pin	2+PE
Electrical data acc.to EN 61984	
Working current	40A
Working voltage	400V
Rated impulse voltage	6kV
Pollution degree	3
Pollution degree 2	40A 400/690V 6kV 2
Rated voltage acc.to UL/CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Temperature range	-40°C....+125°C
Flammability acc.to UL94	V0
Mechanical working life(Mating cycles)	≥ 500

Contacts

Material	Copper alloy
Surface	
silver plated	3 μ m Ag
Contact resistance	$\leq 1 \text{ m}\Omega$
Axial screw connection	
-mm ²	2.5-10mm ²
-AWG	14-8

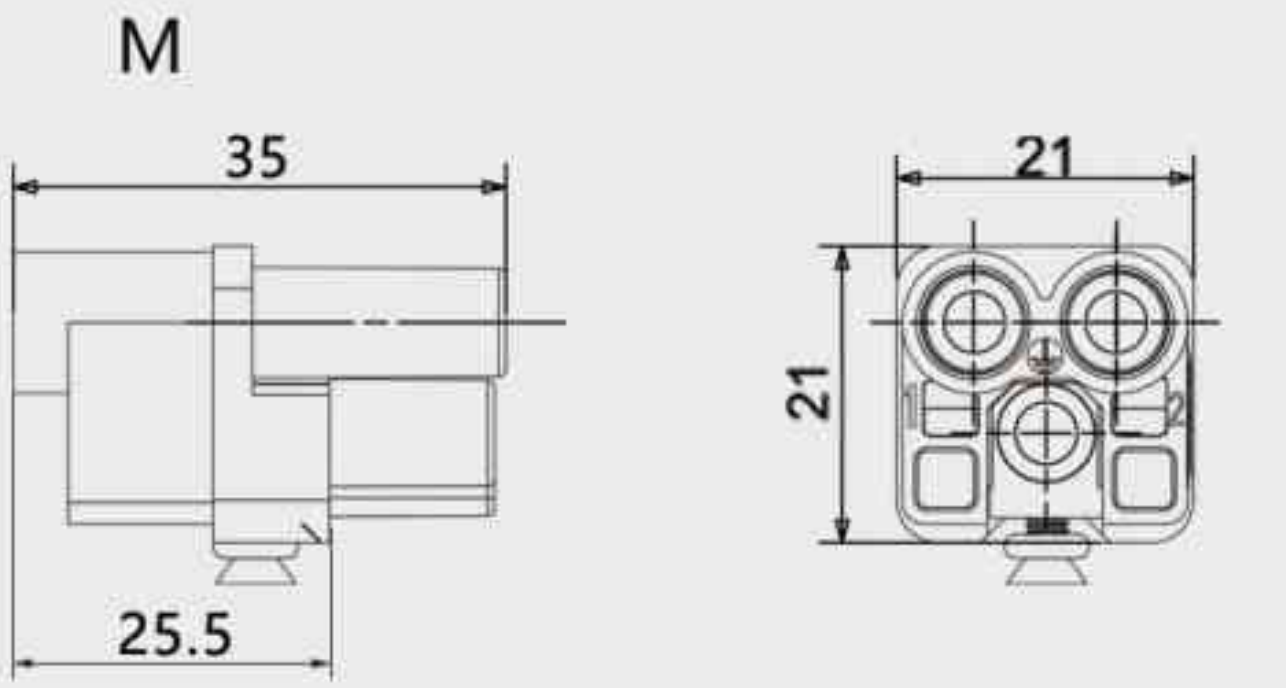
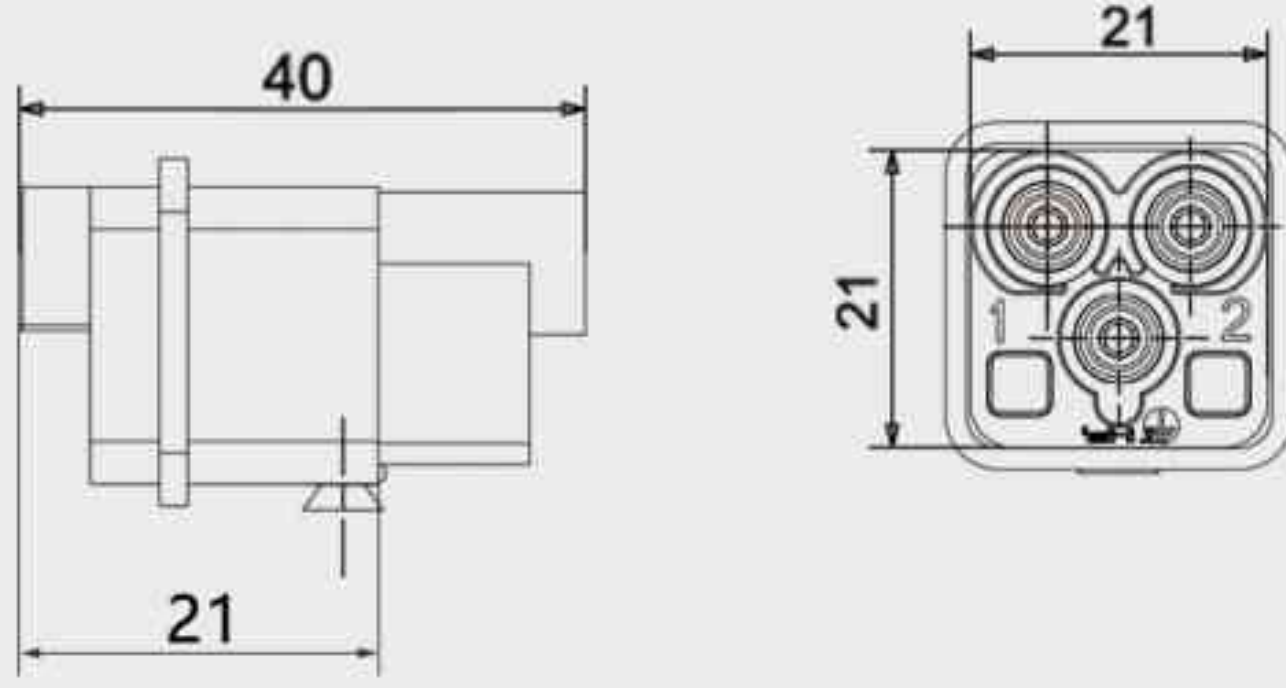


- ① wire gauge : 10 mm²
- ② wire gauge : 6 mm²
- ③ wire gauge : 4 mm²
- ④ wire gauge : 2.5 mm²

HQV

HQV-002-F
HQV-002-M

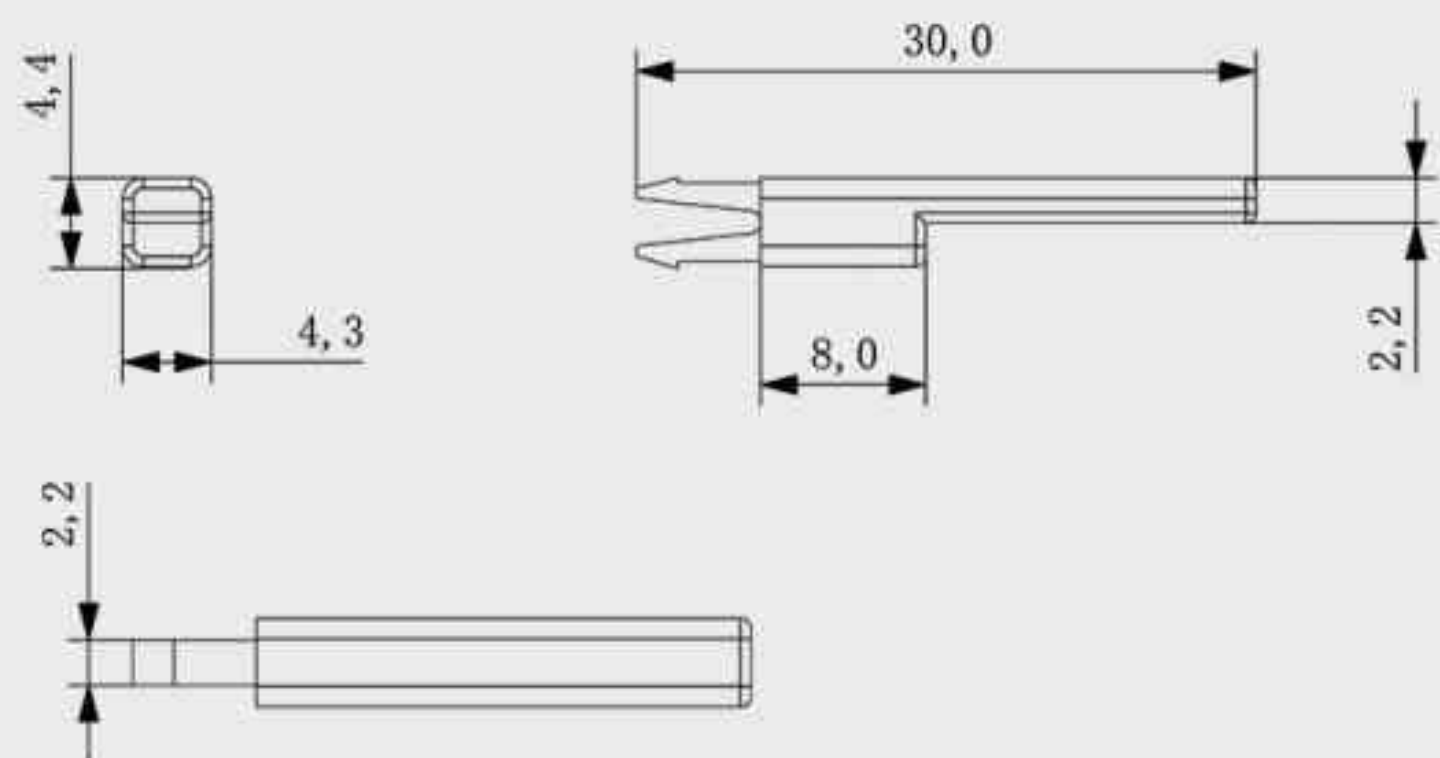
For **H3A**,Hood/Housing Please Refer Page No. 134-139

Identification	Type	Order No.	Drawing	Dimensions mm
Axial screw connection 			Size	
			M	
	HQV-002.1-F(2.5-6)	3 002 090 71 102		
	HQV-002.2-F(4-10)	3 002 090 72 102		
			F	
	HQV-002.1-M(2.5-6)	3 002 090 71 101		
	HQV-002.2-M(4-10)	3 002 090 72 101		

HQV

Accessories

Tool				
Hex key	Insert	Type	Order No.	
	For fastening the screw	SW-2	1 608 31 012	

Coding element	Description	Category	Type	Order No.	 
	Fool-proof, Pin	Male	CODE-Q2	3 007 091 00 101	

HQ-002
HQ-002 technical characteristics

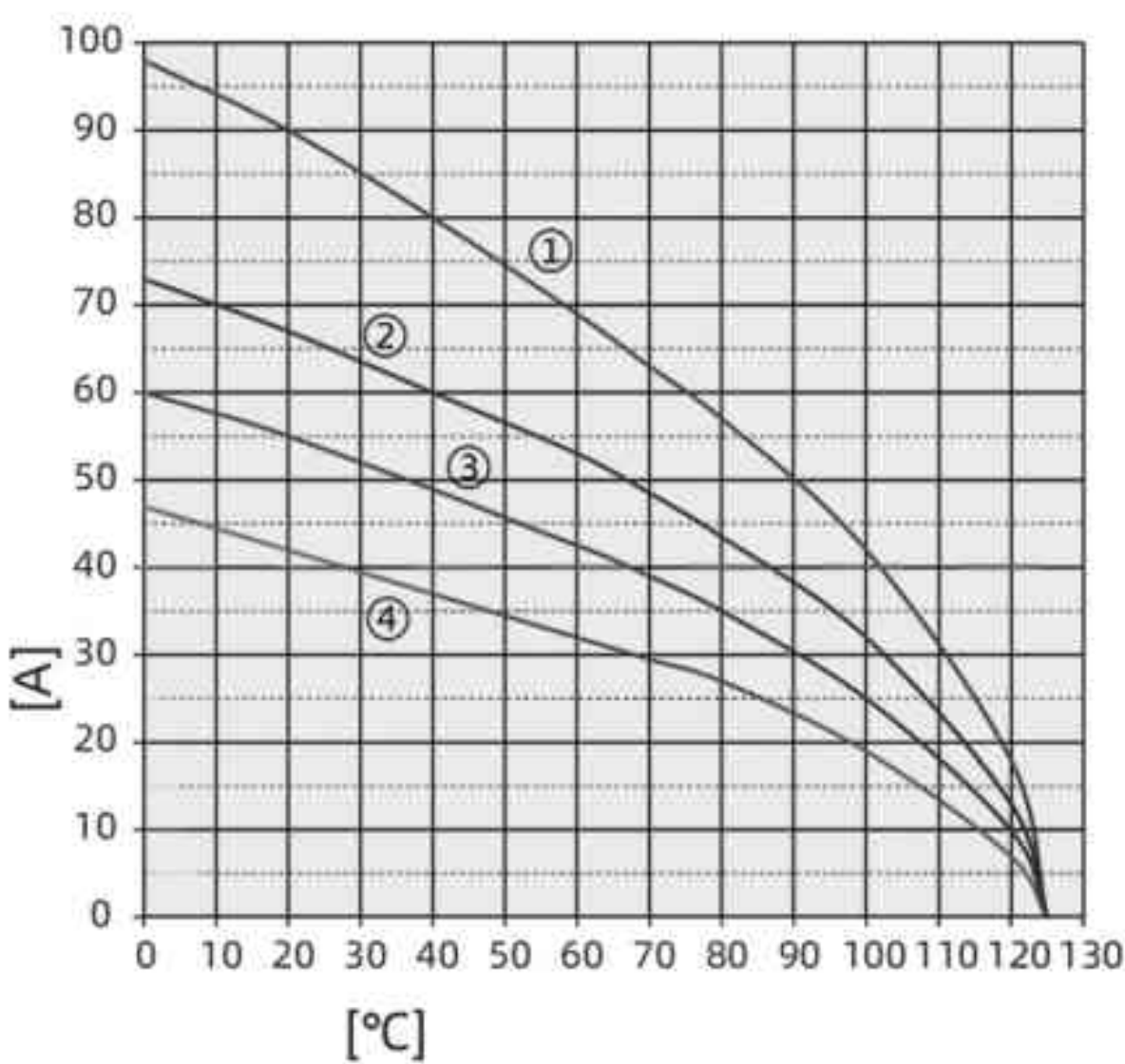


HQ-002 technical characteristics

Current carrying capacity

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

Control and test procedures according to DIN IEC 60512-3



HQ

Specifications

DIN EN 60 664
DIN EN 61 984

Inesrts

Number of pin	2+PE
Electrical data acc. to EN 61984	
Rated current	40A
Rated voltage	830V
Rated impulse voltage	6kV
Pollution degree	3
Rated voltage acc.to UL/CSA	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	
Temperature range	-40°C..+125°C
Flammability acc.to UL94	V0
Mechanical working life (mating cycles)	≥ 500

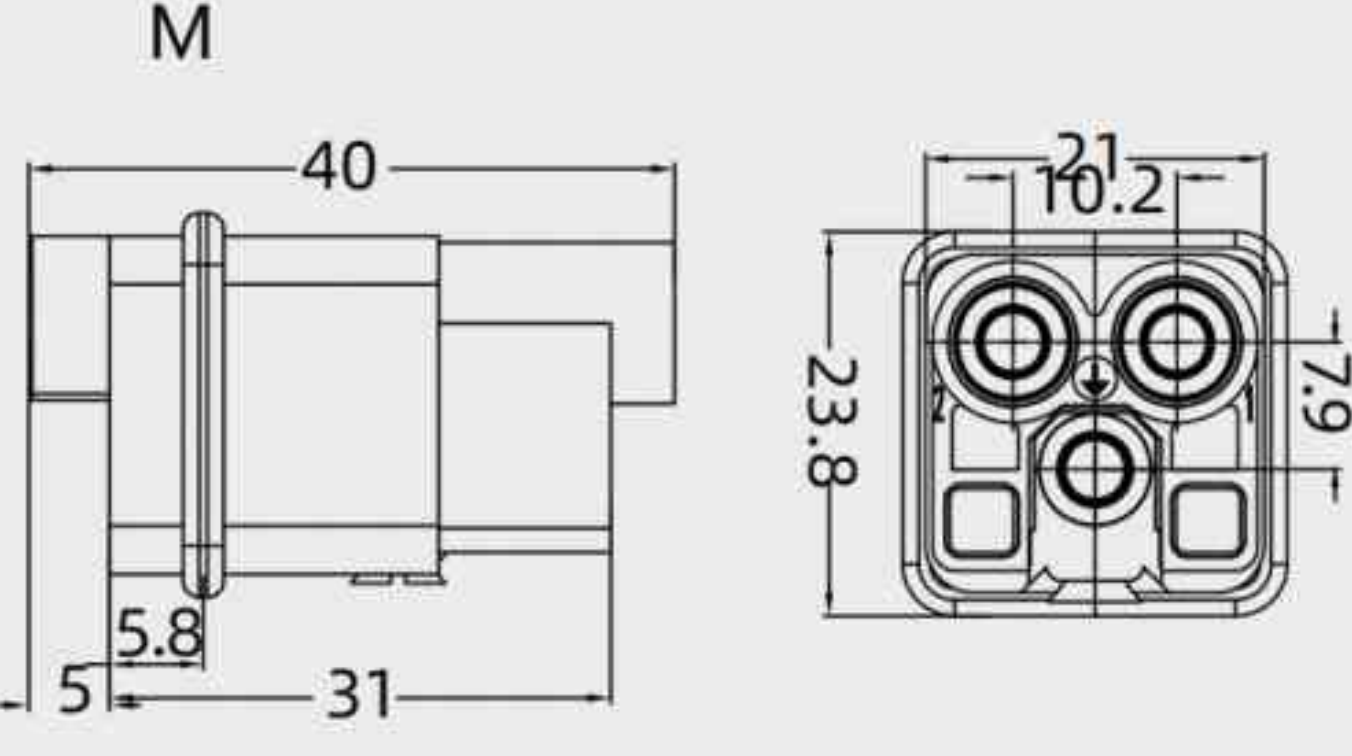
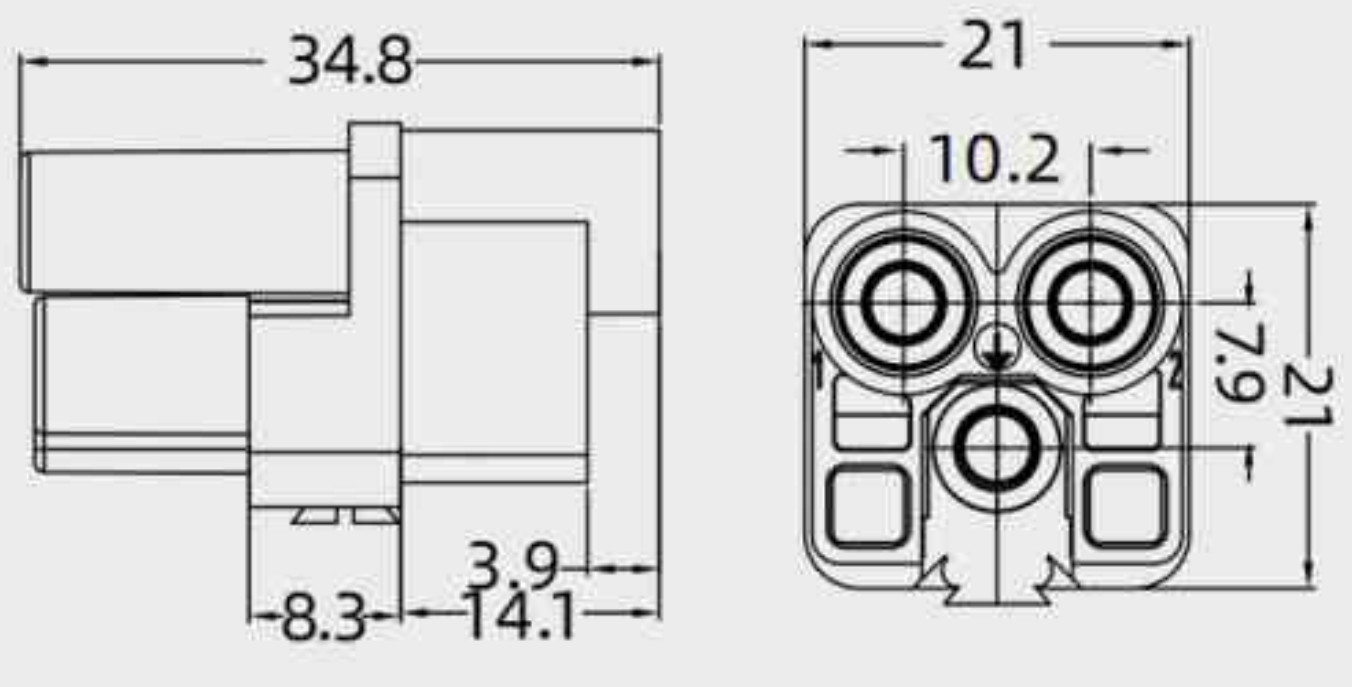
Contacts

Material	Copper alloy
Surface	Silver plating
Contact resistance	≤ 1mΩ
Axial screw connection	
-mm²	2.5-10mm²
-AWG	14-8
Torque tightening force	1.8Nm
Length of stripping wire	8mm ⁺¹

- ① wire gauge : 10 mm²
- ② wire gauge : 6 mm²
- ③ wire gauge : 4 mm²
- ④ wire gauge : 2.5 mm²

HQ-002-F
HQ-002-M

For **H3A**,Hood/Housing Please Refer Page No. 134-139

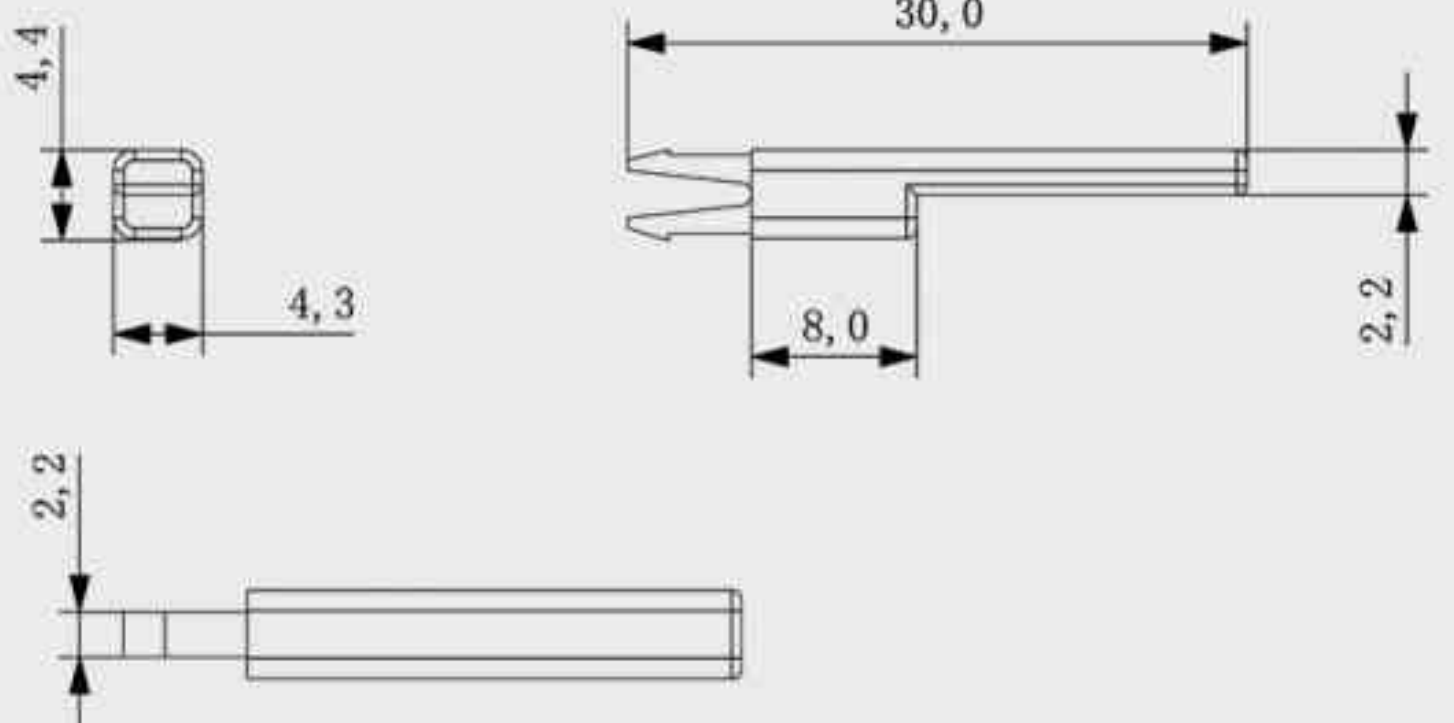
Identification	Type	Order No.	Drawing	Dimensions mm
Axial screw connection  			Size	
			M	
	HQ-002.1-F(2.5-6)	3 004 090 72 102		
	HQ-002.2-F(4-10)	3 002 090 72 112		
	HQ-002.1-M(2.5-6)	3 004 090 72 101	F	
	HQ-002.2-M(4-10)	3 002 090 72 101		

HQ

Accessories

Tool				
Hex key 	Insert	Type	Order No.	
	For fastening the screw	SW-2	1 608 31 012	

Coding element 	Description	Category	Type	Order No.
	Fool-proof, Pin	Male	CODE-Q2	3 007 091 00 101



Size 3A Plastic Hoods/Housings

Material	Polycarbonate
Colour	Light grey (RAL 7032)
Locking element	
Lever type	Lever, Plastic
Material	Polyamide
Hoods/Housings sealing	NBR
Limiting temperatures	- 40 ~ + 125°C
Flammability acc. to UL94)	V0
Protection level (interlock state, EN60529)	IP65
Degree of protection acc.to EN 60529 for coupled connector	

Standard Hoods/Housings

Material	Aluminium die-cast
Hoods/Housings	Aluminium die-cast
Colour	Grey
Locking element	
Lever type	Lever, Metal
Material	stainless steel or steel zinc-plated
Hoods/Housings sealing	NBR
Limiting temperatures	- 40 ~ + 125°C
Flammability acc. to UL94)	V0
Protection level (interlock state, in accordance with EN60529)	IP65
Degree of protection acc.to EN 60529 for coupled connector	

Housings

Hoods/Housings, pressure tight

Material	Corrosion-resistant cast aluminum alloy
	Aluminium die-cast, corrosion resistant
Colour	Black or grey (RAL 9005 or 7037)
Locking element	
Lever type	Screw locking
Material	Stainless steel
Hoods/Housings sealing	NBR
Limiting temperatures	- 40 ~ + 125°C
Flammability acc. to UL94)	V0
Protection level (interlock state, in accordance with EN60529)	IP68
Degree of protection acc.to EN 60529 for coupled connector	

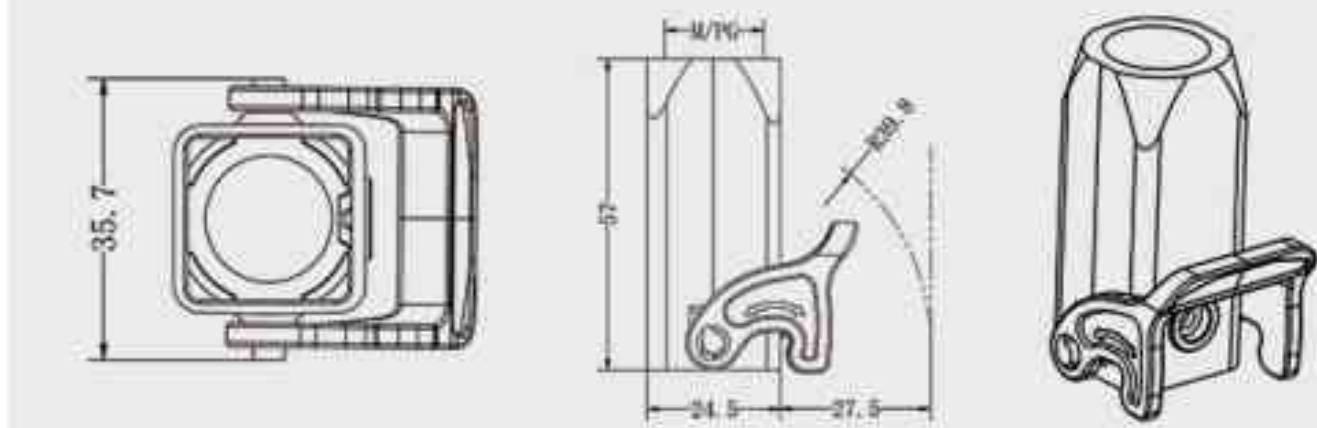
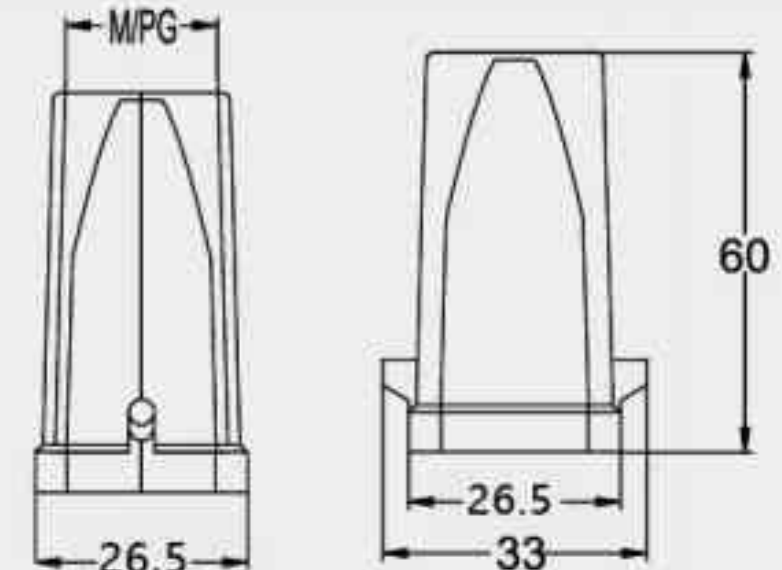
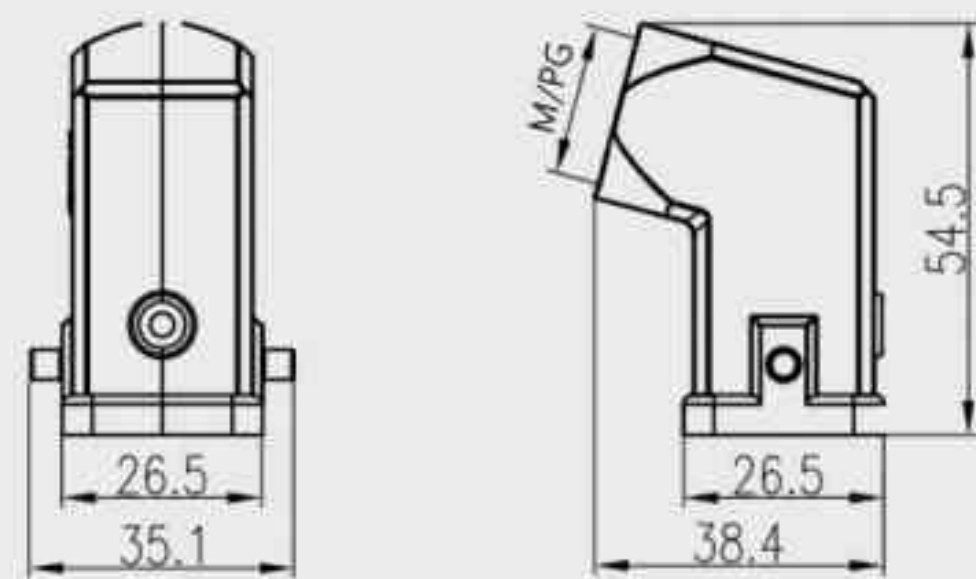
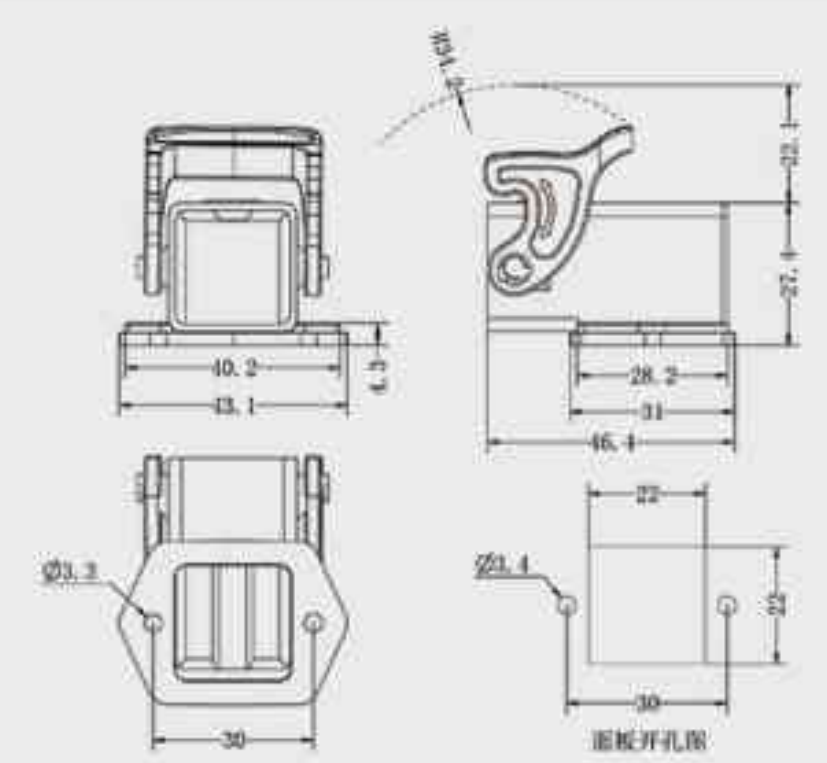
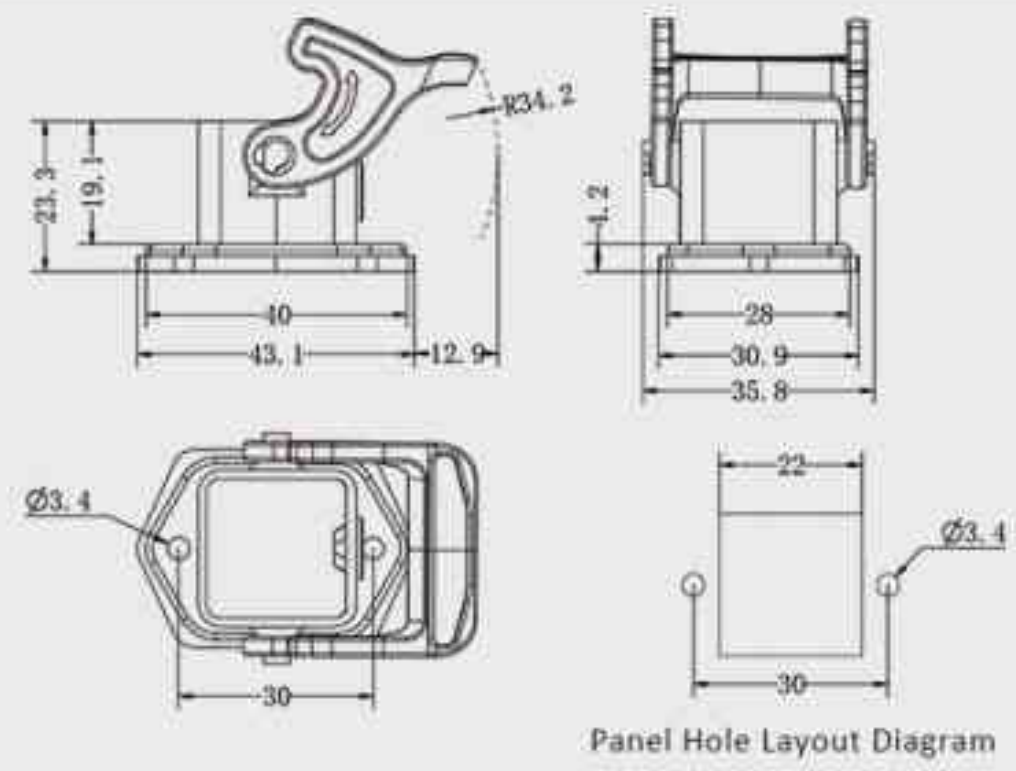
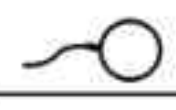
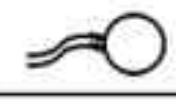
Hood & Housing Feature Size 3 A

Size 3 A



Degree of protection: IP65

Plastic hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings,cable to cable	M20 PG11	H3A.P-CTT-1L-M20 H3A.P-CTT-1L-PG11	2 003 209 11 120 2 003 209 11 111		
Hoods,top entry	M20 PG11	H3A.P-TO-2B-M20 H3A.P-TO-2B-PG11	2 003 201 02 120 2 003 201 02 111		
Hoods,top entry	M20 PG11	H3A.P-SO-2B-M20 H3A.P-SO-2B-PG11	2 003 202 02 120 2 003 202 02 111		
Bulkhead mounted housings		H3A.P-HB-1L-SO	2 003 206 11 100		
Bulkhead mounted housings		H3A.P-HB-1L	2 003 206 11 000		
Protection covers	  	H3A-CV-1L/N H3A-CV-1L/2N H3A-CV-1L/C	2 003 215 11 080 2 003 215 11 084 2 003 215 11 090		

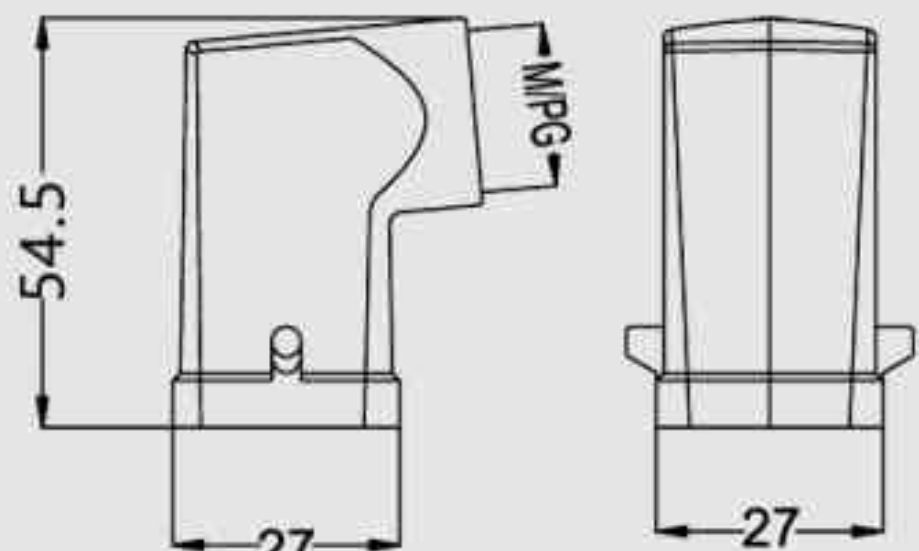
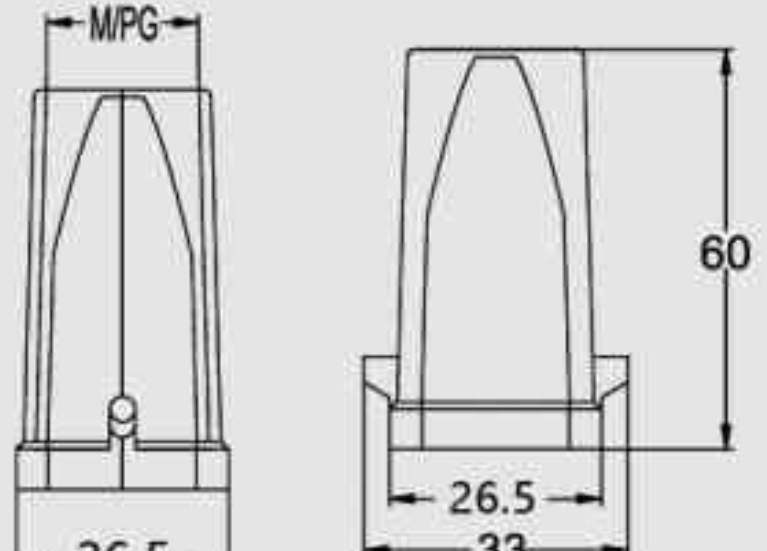
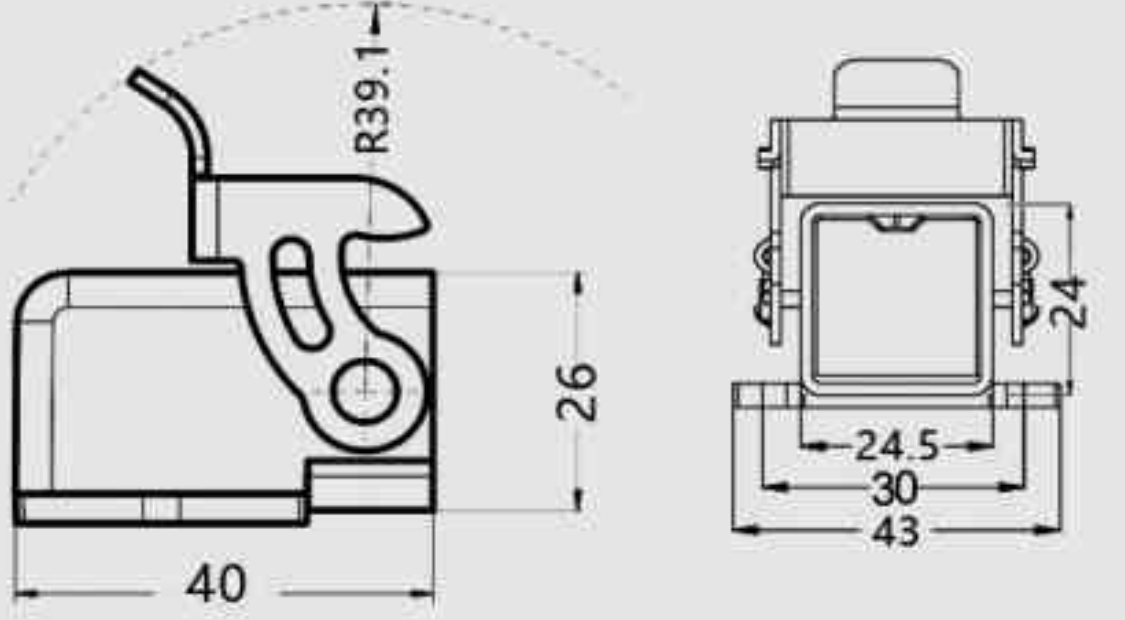
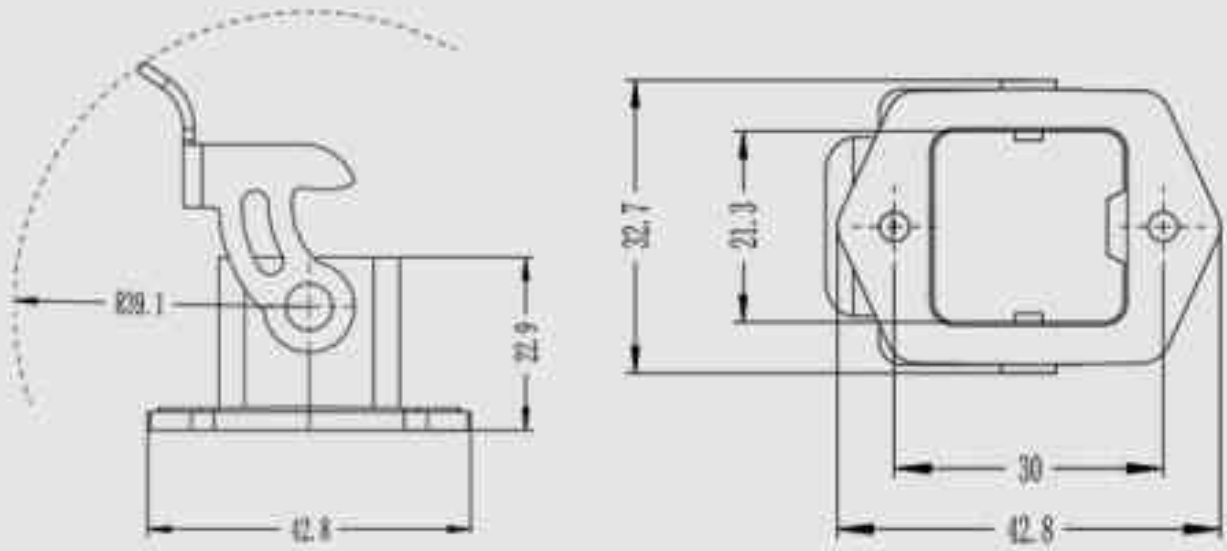
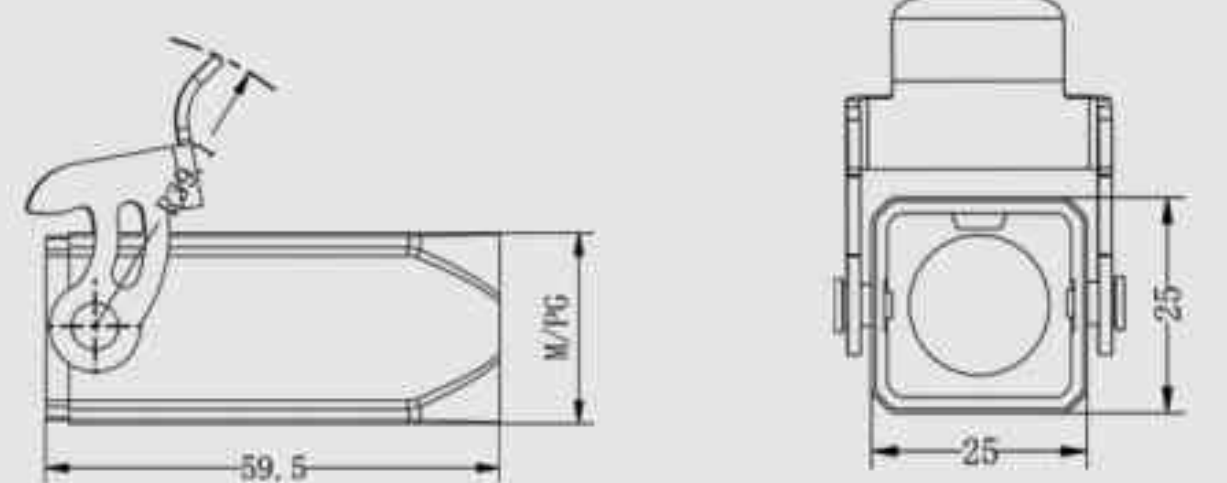
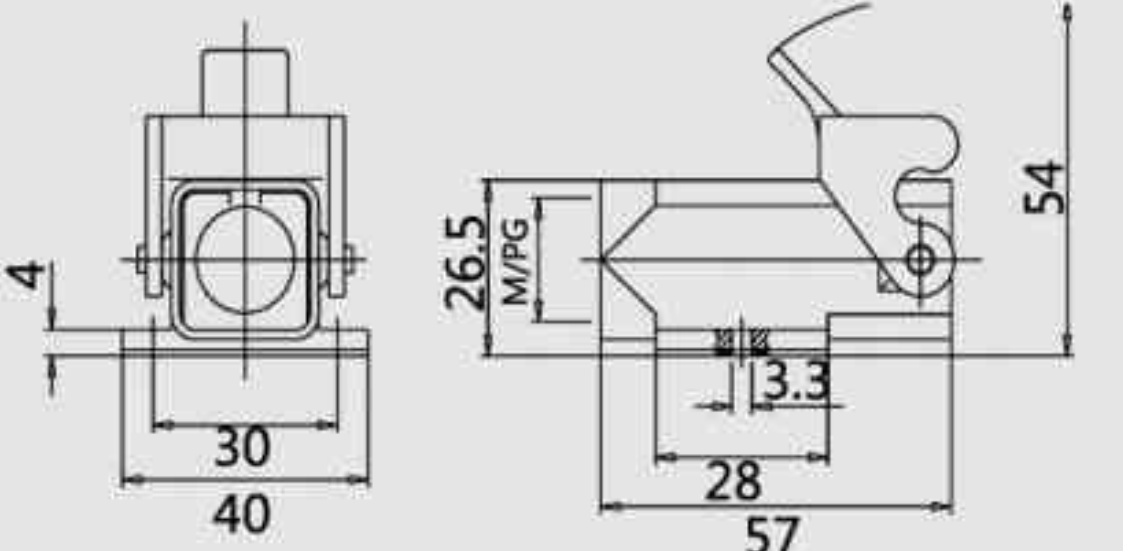
Degree of protection: IP65

[illegible]

H3A

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods,side entry 	M20	H3A-SO-2B-M20	2 003 102 02 120		
	PG11	H3A-SO-2B-PG11	2 003 102 02 111		
	PG13.5	H3A-SO-2B-PG13.5	2 003 102 02 113		
Hoods,top entry 	M20	H3A-TO-2B-M20	2 003 101 02 120		
	PG11	H3A-TO-2B-PG11	2 003 101 02 111		
	PG13.5	H3A-TO-2B-PG13.5	2 003 101 02 113		
H3A Bulkhead mounted housings 		H3A-HB-1L-SO	2 003 106 10 100		
Bulkhead mounted housings 		H3A-HB-1L	2 003 106 10 000		
Housings,cable to cable 	M20	H3A-CTT-1L-M20	2 003 109 10 120		
	M20	H3A-CTT-1L/S-M20	2 003 109 13 120		
	PG11	H3A-CTT-1L-PG11	2 003 109 10 111		
	PG13.5	H3A-CTT-1L-PG13.5	2 003 109 10 113		
Housings 	M20	H3A-SM-1L-M20	2 003 107 10 120		
	M20	H3A-SM-1L/S-M20	2 003 107 13 120		
	PG11	H3A-SM-1L-PG11	2 003 107 10 111		
	PG13.5	H3A-SM-1L-PG13.5	2 003 107 10 113		

Degree of protection: IP65

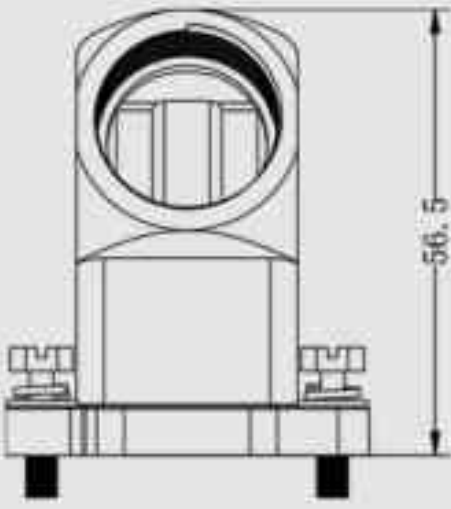
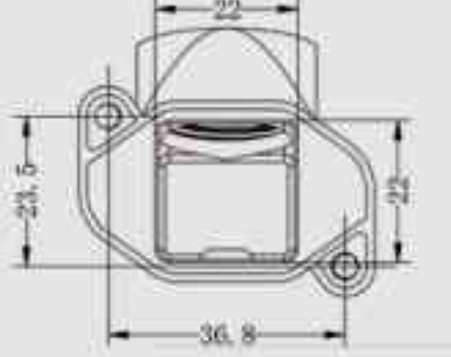
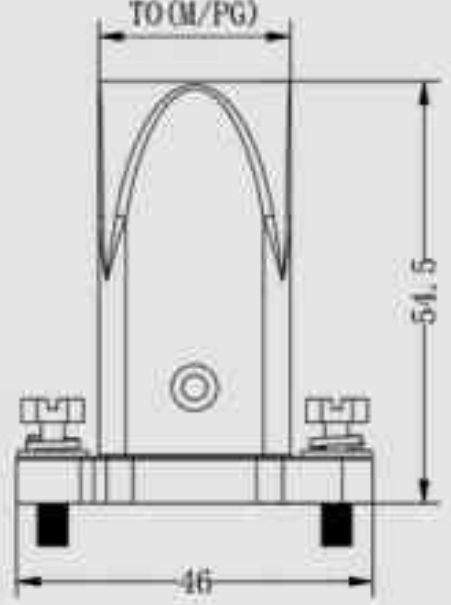
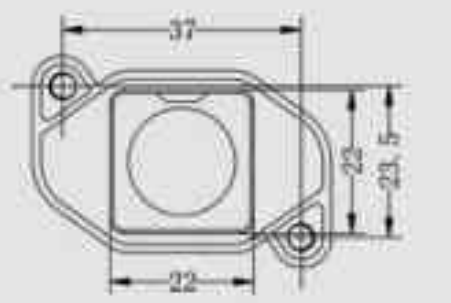
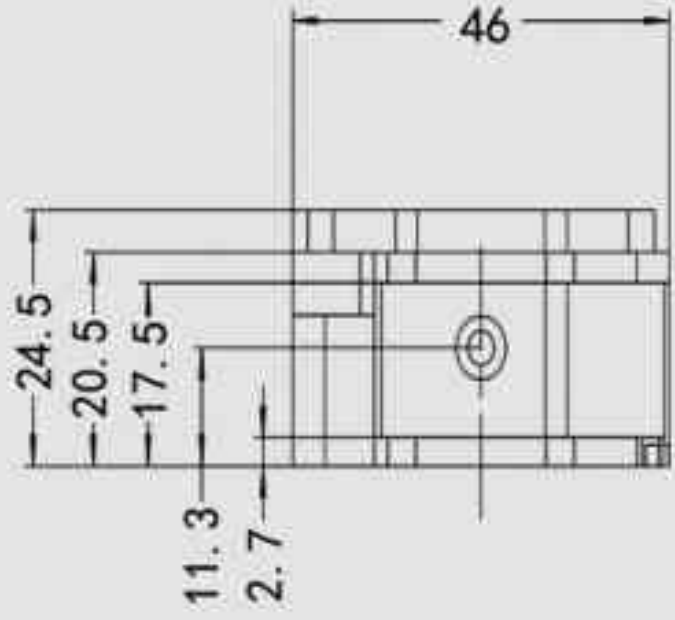
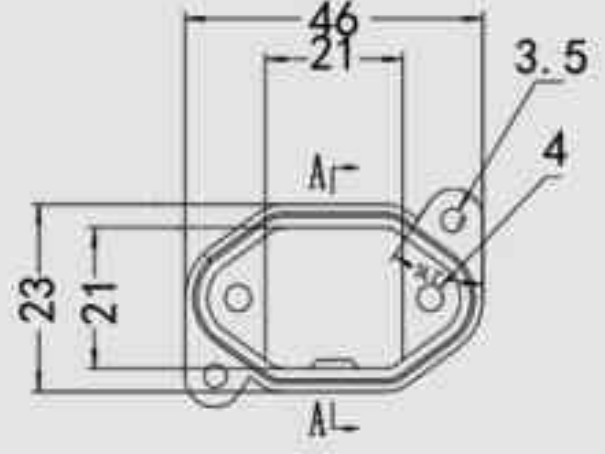
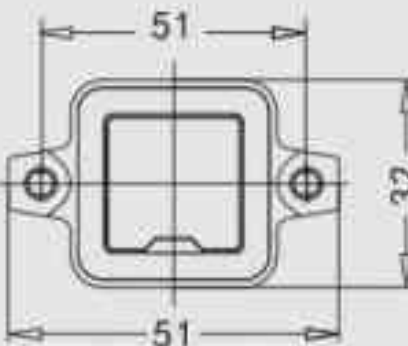
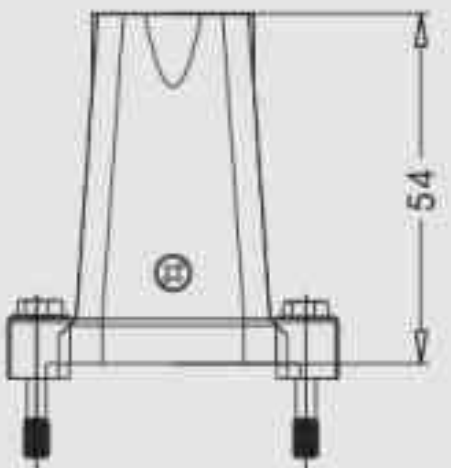
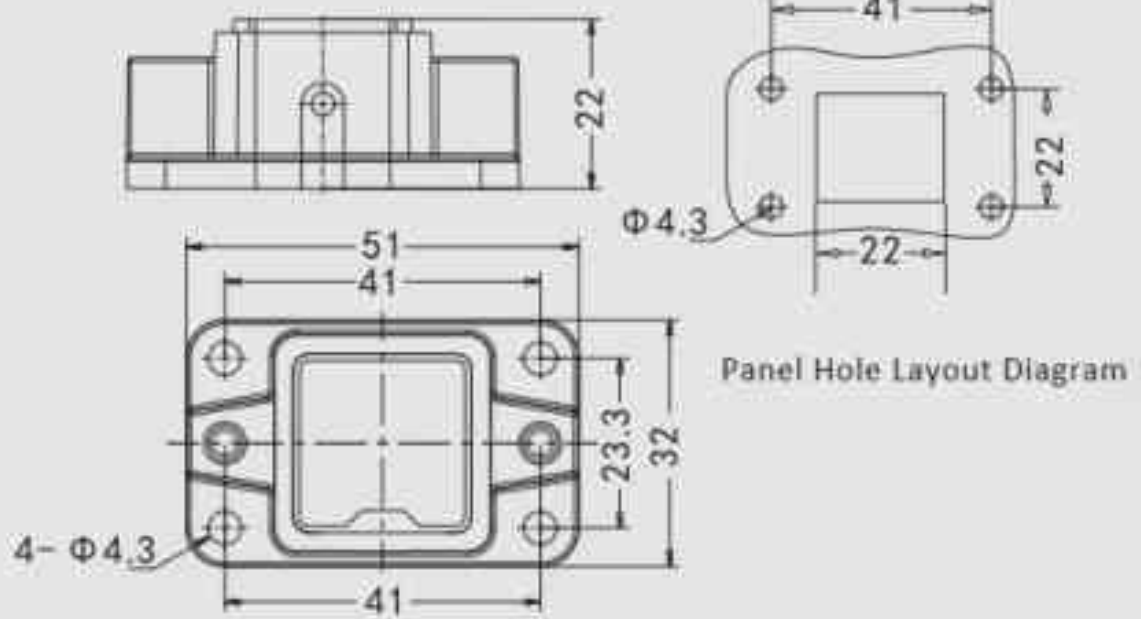
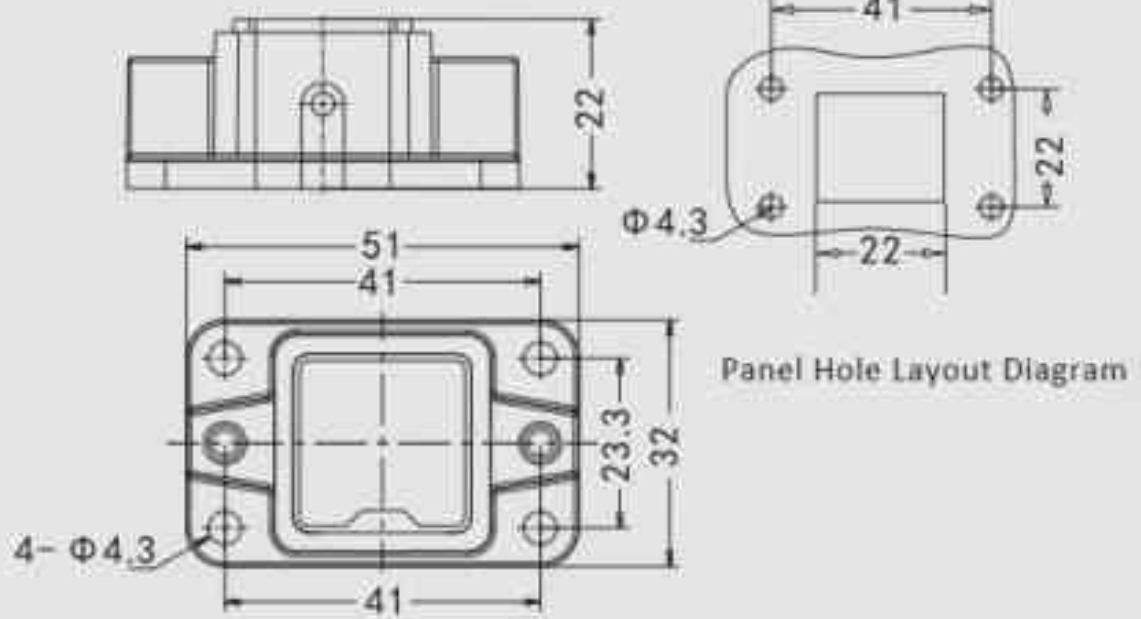
Metal hoods

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H3A

Degree of protection: IP68

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods,side entry 	M20	H3APR-SO-2T-M20	2 003 102 40 120		
	M25	H3APR-SO-2T-M25	2 003 102 40 125		
	PG11	H3APR-SO-2T-PG11	2 003 102 40 111		
	PG13.5	H3APR-SO-2T-PG13.5	2 003 102 40 113		
Hoods,top entry 	M20	H3APR-TO-2T-M20	2 003 101 40 120		
	PG11	H3APR-TO-2T-PG11	2 003 101 40 111		
	PG13.5	H3APR-TO-2T-PG13.5	2 003 101 40 113		
Bulkhead mounted housings 	H3APR-HB-2T		2 003 106 40 000		
Hoods,top entry 	M20	H3APR-TO-2T/H-M20	2 003 102 41 120		
	M25	H3APR-TO-2T/H-M25	2 003 102 41 125		
	PG11	H3APR-TO-2T/H-PG11	2 003 102 41 111		
	PG13.5	H3APR-TO-2T/H-PG13.5	2 003 102 41 113		
Bulkhead mounted housings 	H3APR-HB-2T/H		2 003 106 41 000		

H3A

Degree of protection: IP68

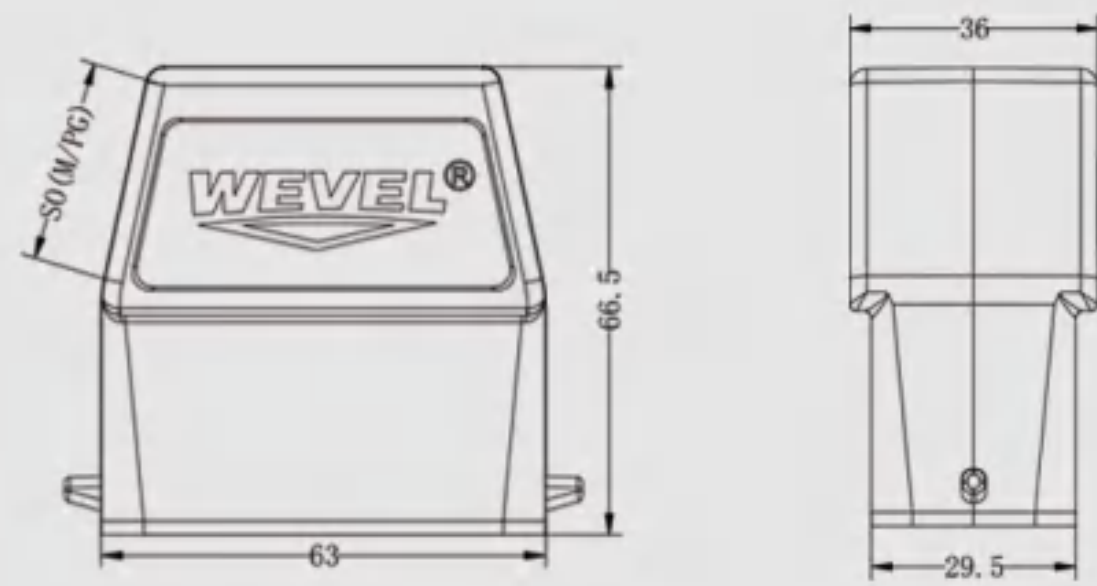
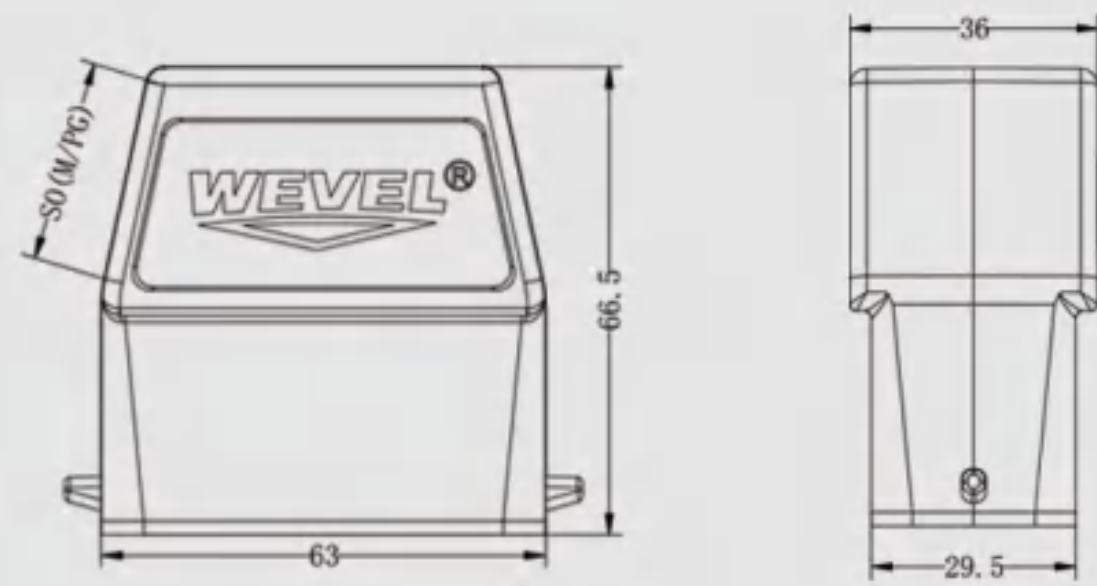
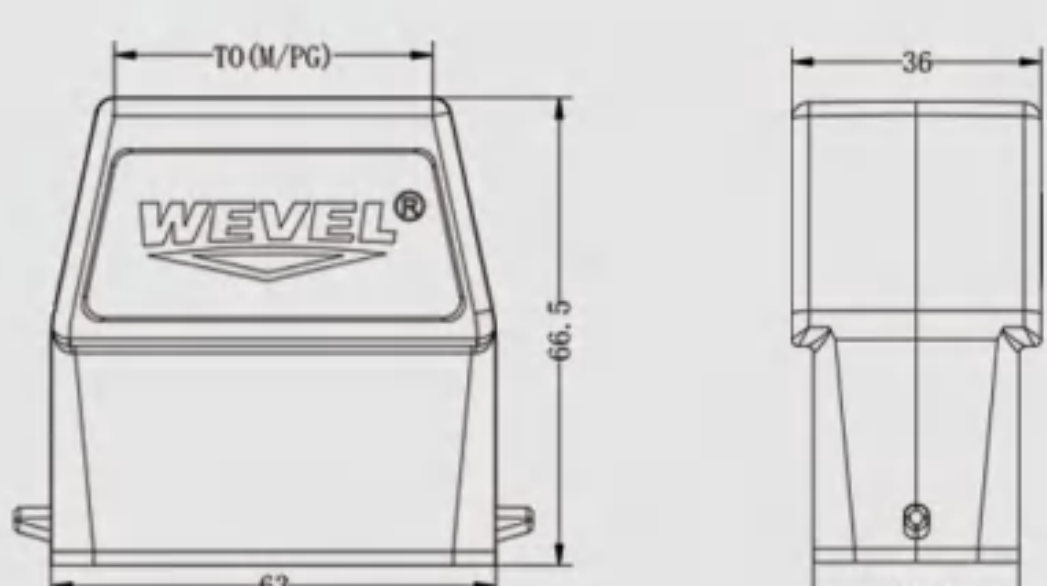
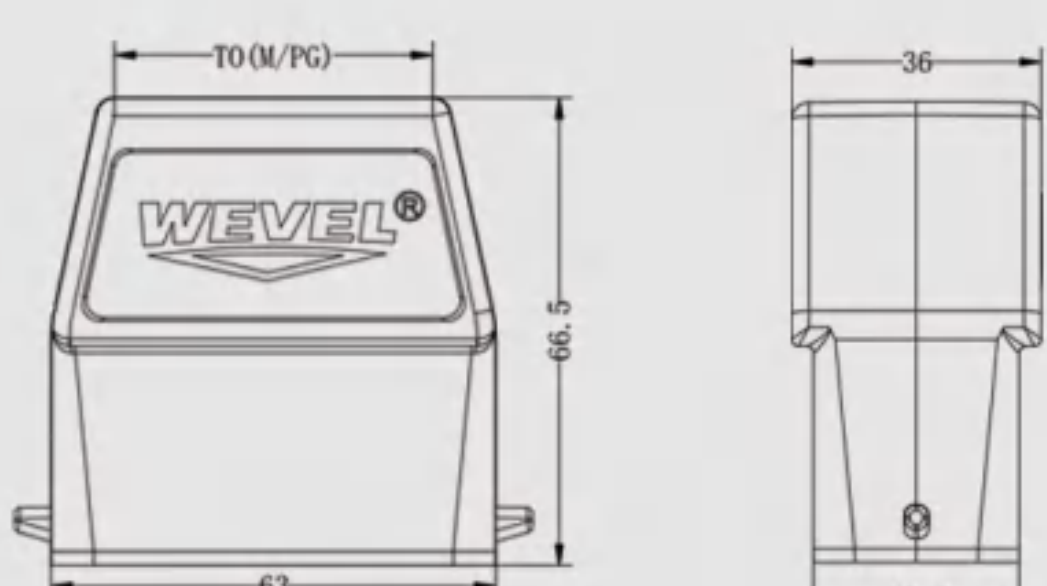
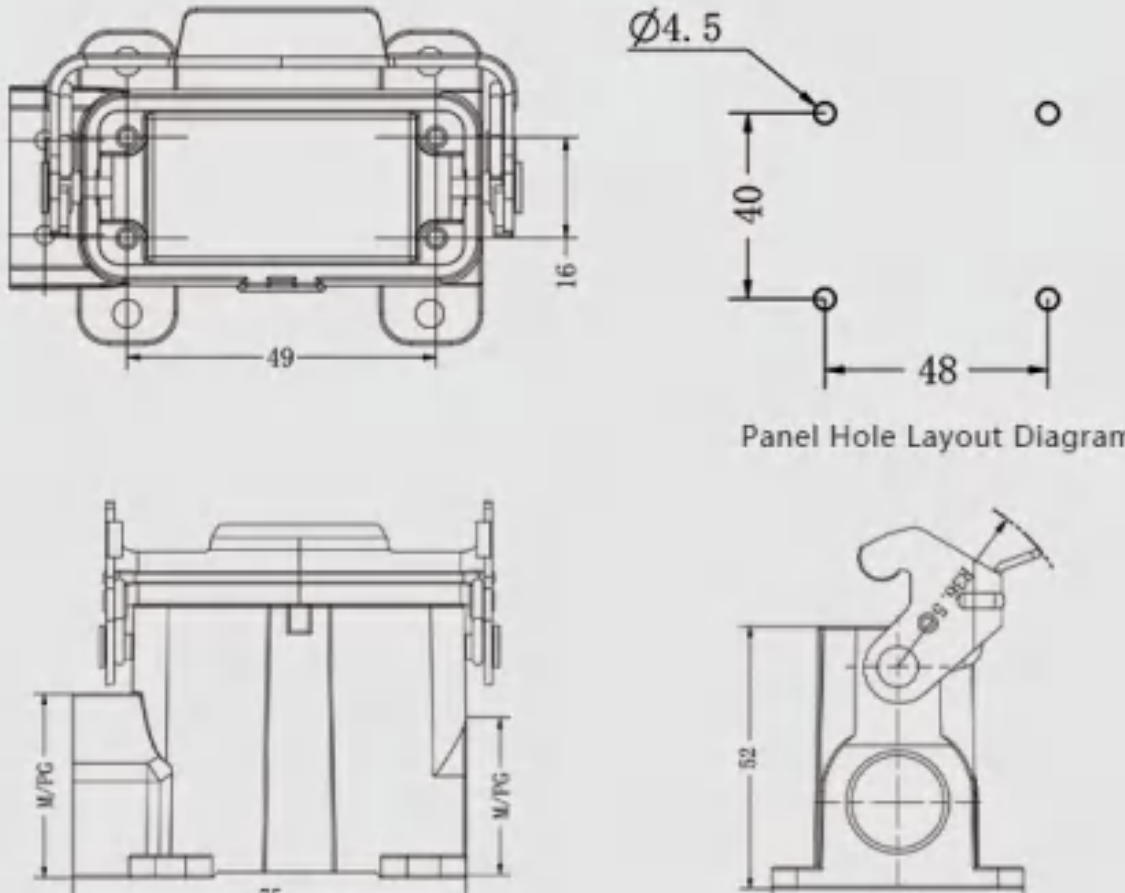
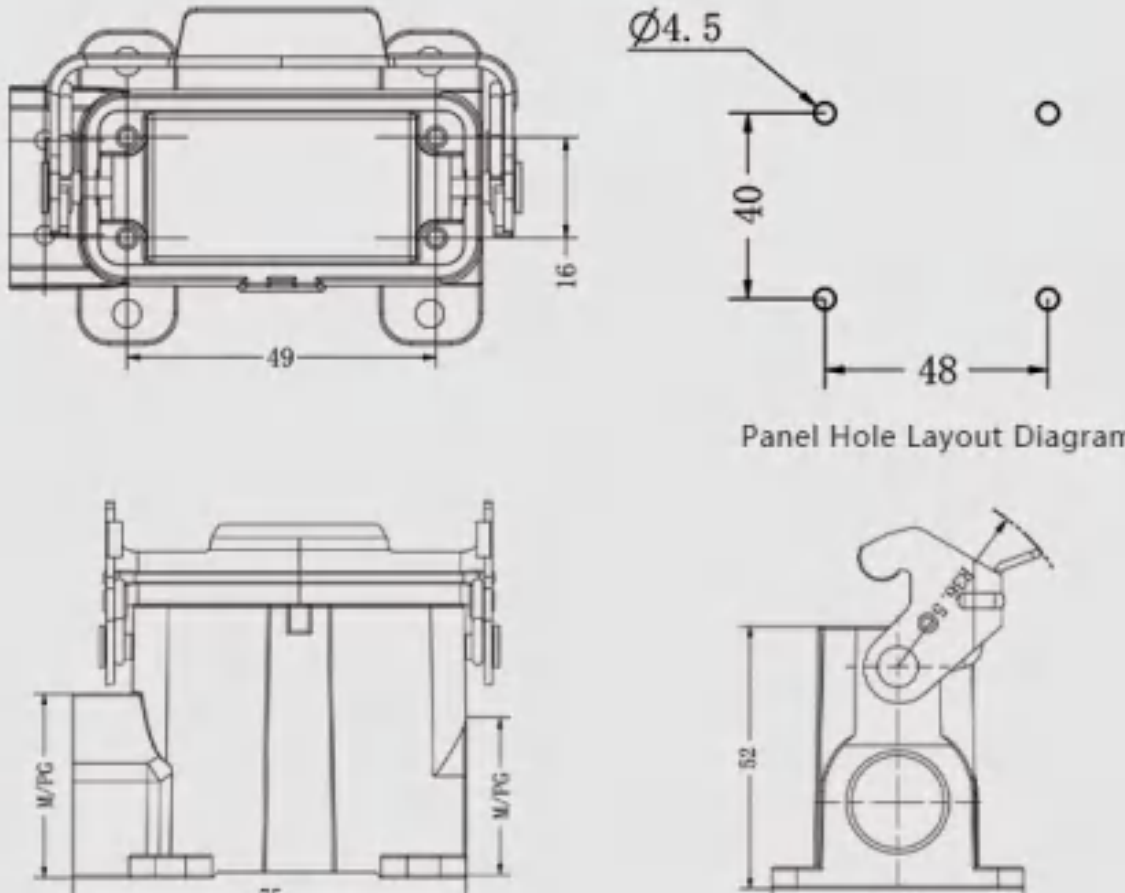
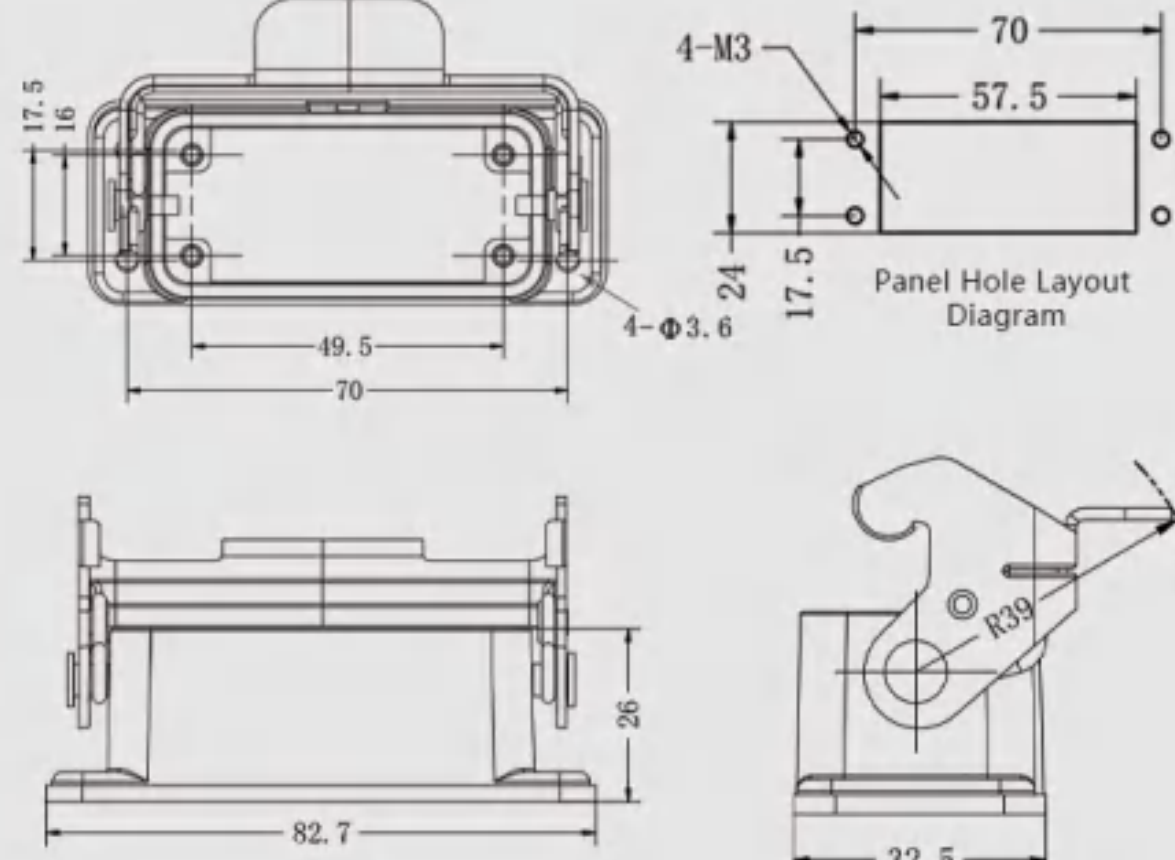
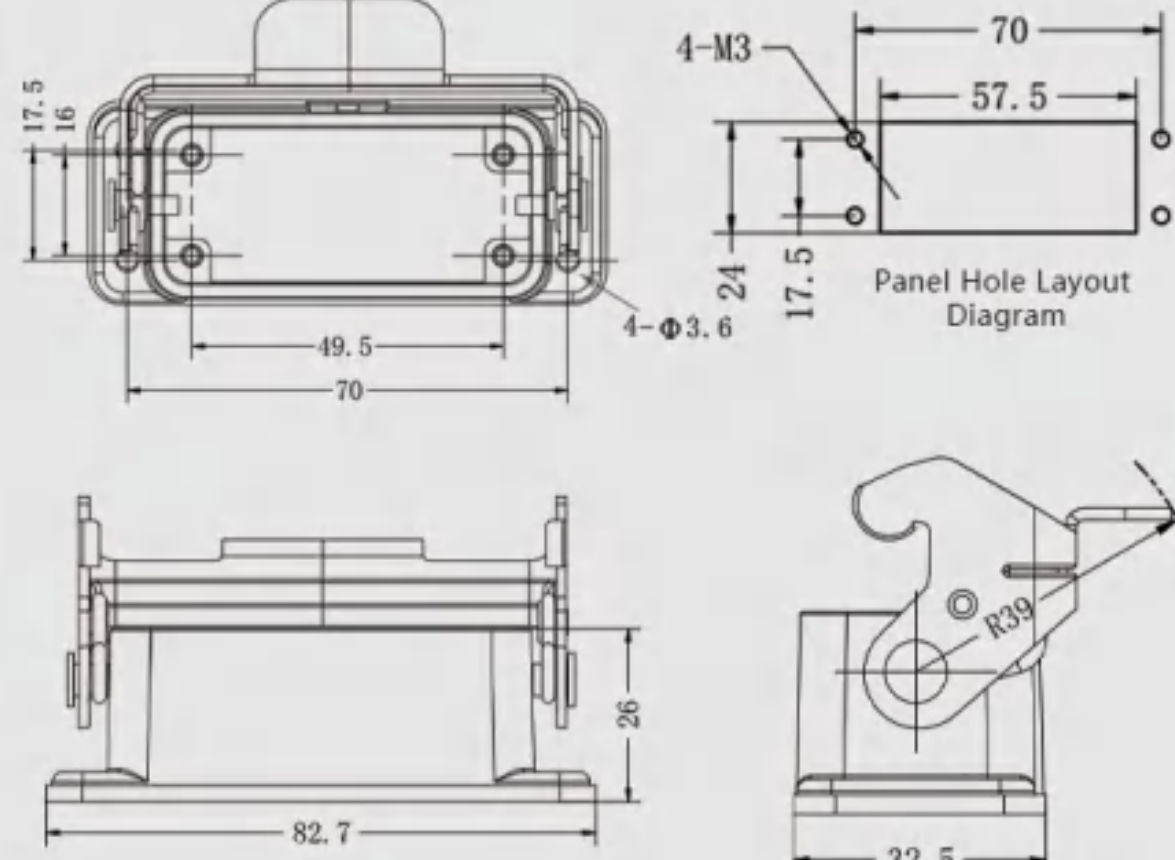
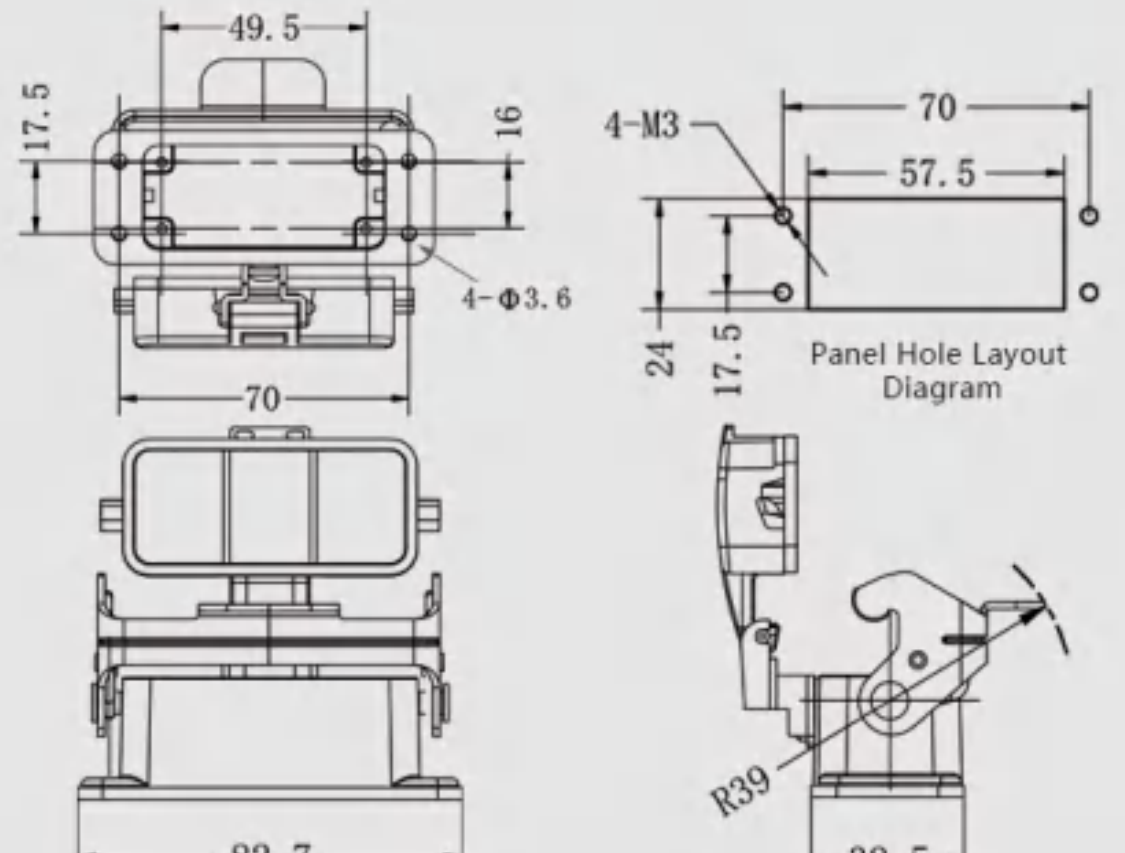
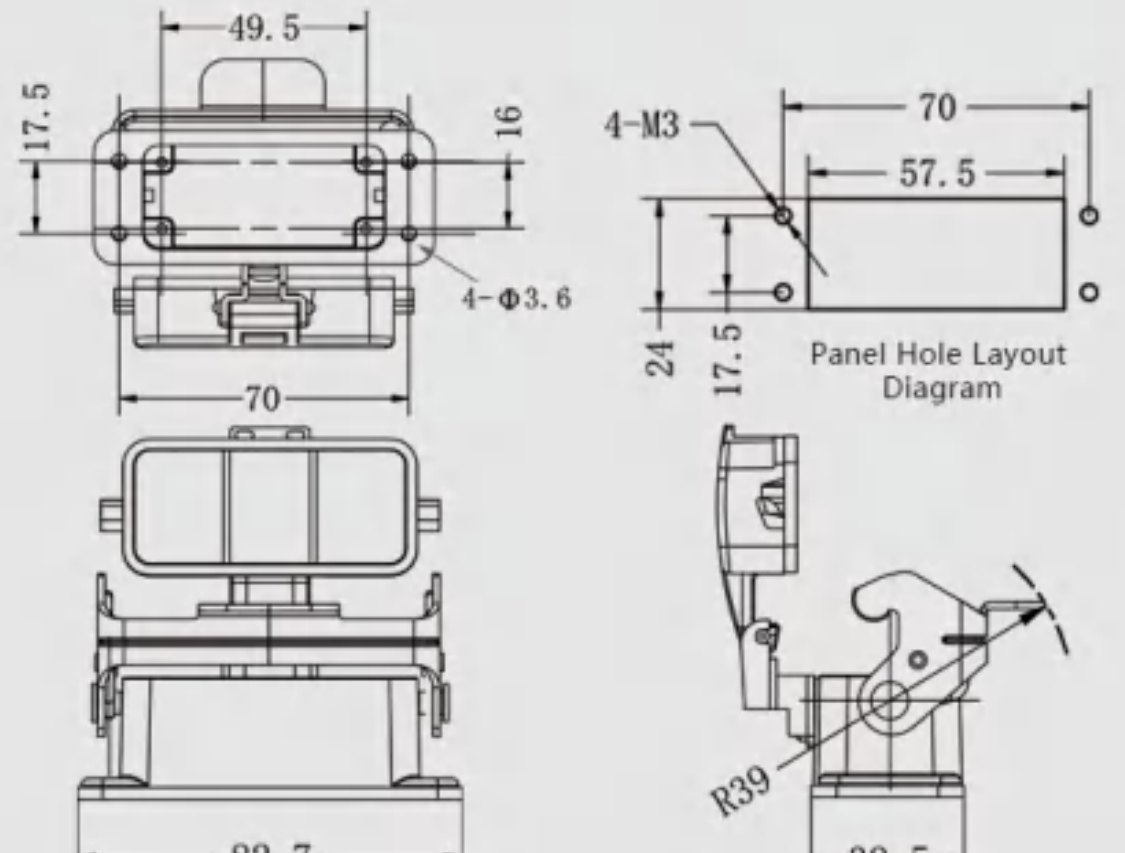
Metal hoods

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H3A

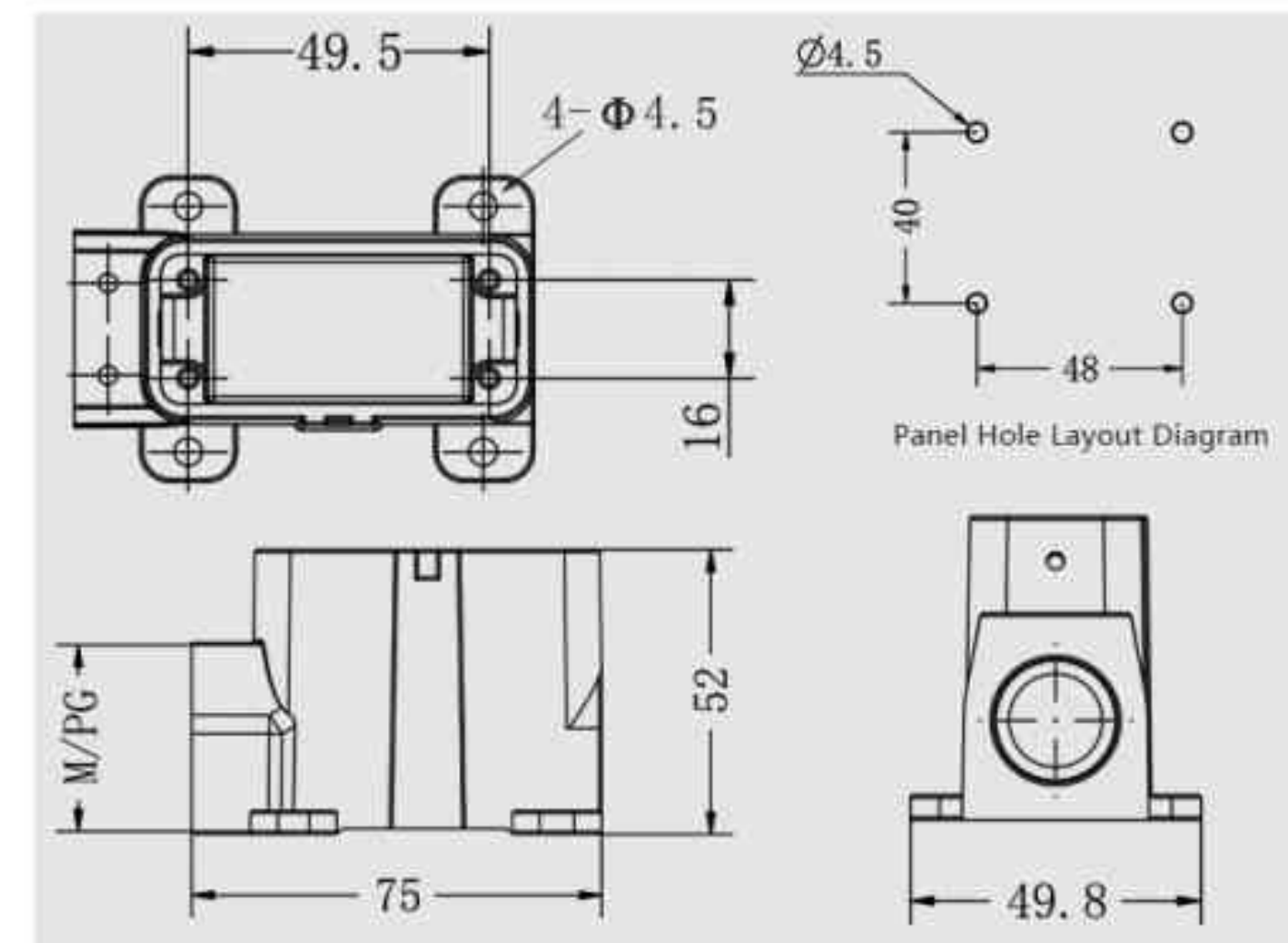
Degree of protection: IP65

Metal hoods

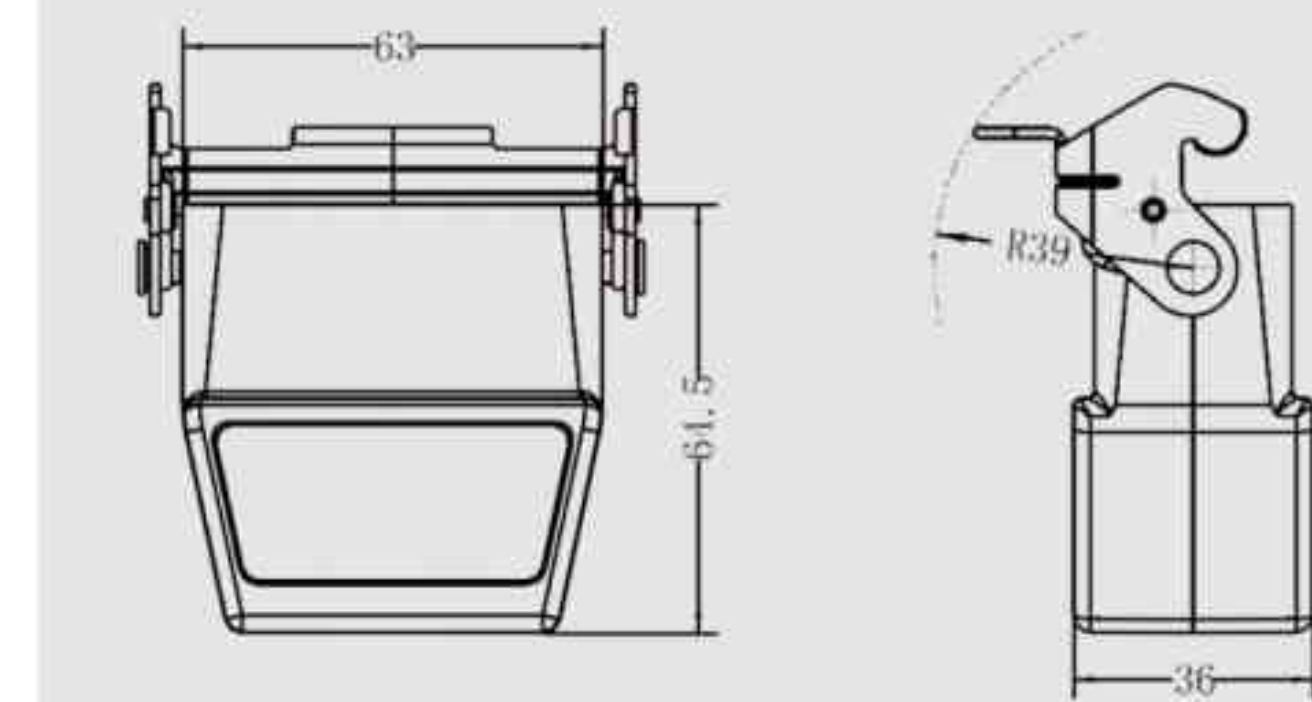
Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods,side entry					
	M20	H10A-SO-2B-M20	2 010 102 02 120		
	M25	H10A-SO-2B-M25	2 010 102 02 125		
	PG13.5	H10A-SO-2B-PG13.5	2 010 102 02 113		
	PG16	H10A-SO-2B-PG16	2 010 102 02 116		
	PG21	H10A-SO-2B-PG21	2 010 102 02 121		
Hoods,top entry					
	M20	H10A-TO-2B-M20	2 010 101 02 120		
	M25	H10A-TO-2B-M25	2 010 101 02 125		
	PG13.5	H10A-TO-2B-PG13.5	2 010 101 02 113		
	PG16	H10A-TO-2B-PG16	2 010 101 02 116		
	PG21	H10A-TO-2B-PG21	2 010 101 02 121		
Housings					
	M20	H10A-SM-1L-M20	2 010 107 10 120		
	M25	H10A-SM-1L-M25	2 010 107 10 125		
	PG16	H10A-SM-1L-PG16	2 010 107 10 116		
	PG21	H10A-SM-1L-PG21	2 010 107 10 121		
	2M20	H10A-SM-1L-2M20	2 010 107 10 220		
	2M25	H10A-SM-1L-2M25	2 010 107 10 225		
	2PG21	H10A-SM-1L-2PG21	2 010 107 10 221		
Bulkhead mounted housings					
	H10A-HB-1L		2 010 106 10 000		
Bulkhead mounted housings					
	H10A-HB-1L-CV		2 010 106 14 000		
	H10A-HB-1L-MCV		2 010 106 17 000		



M20	H10A-SM-1L-CV-M20	2 010 107 14 120
M25	H10A-SM-1L-CV-M25	2 010 107 14 125
PG16	H10A-SM-1L-CV-PG16	2 010 107 14 116
PG21	H10A-SM-1L-CV-PG21	2 010 107 14 121
2M20	H10A-SM-1L-CV-2M20	2 010 107 14 220
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2PG21	H10A-SM-1L-CV-2PG21	2 010 107 14 221

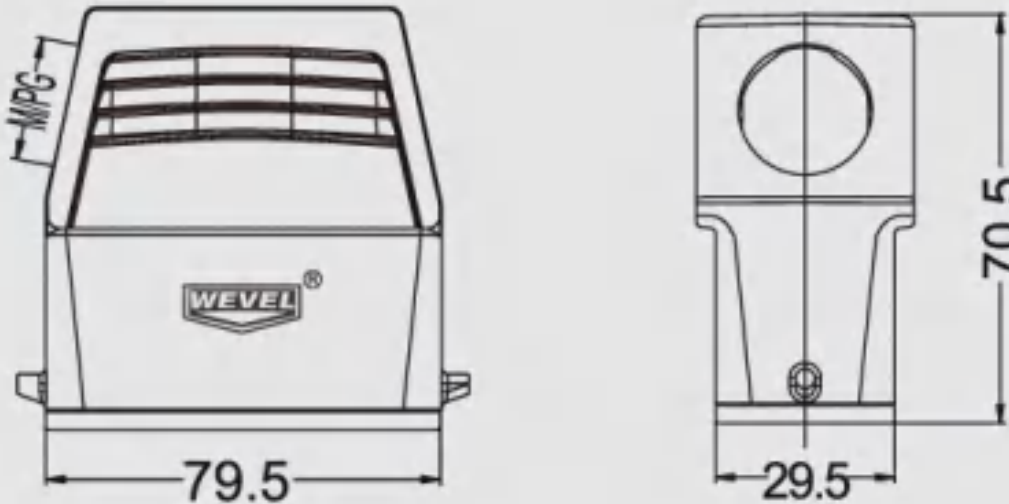
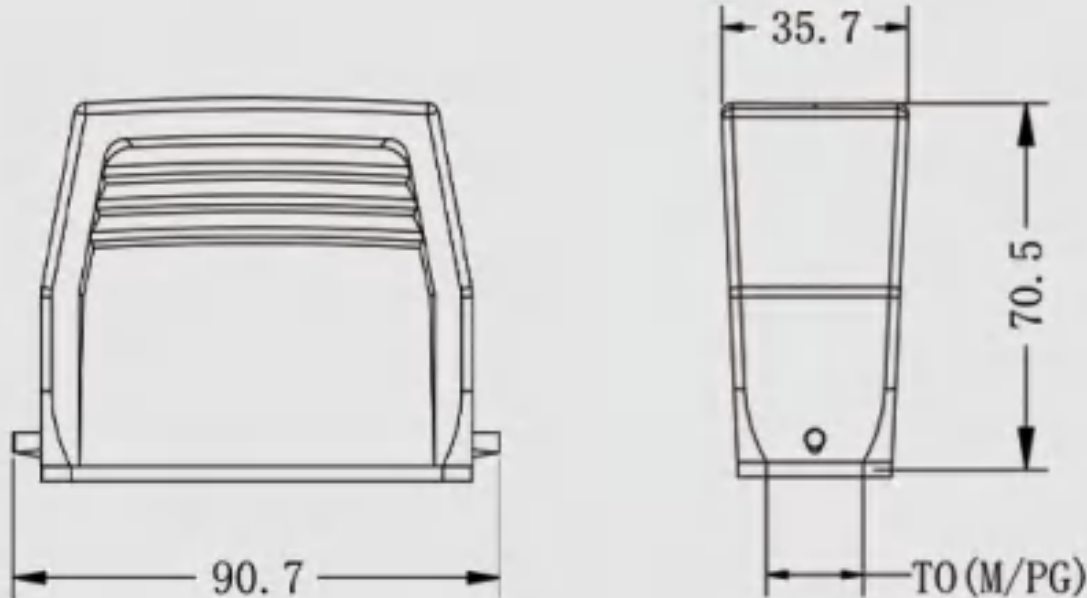
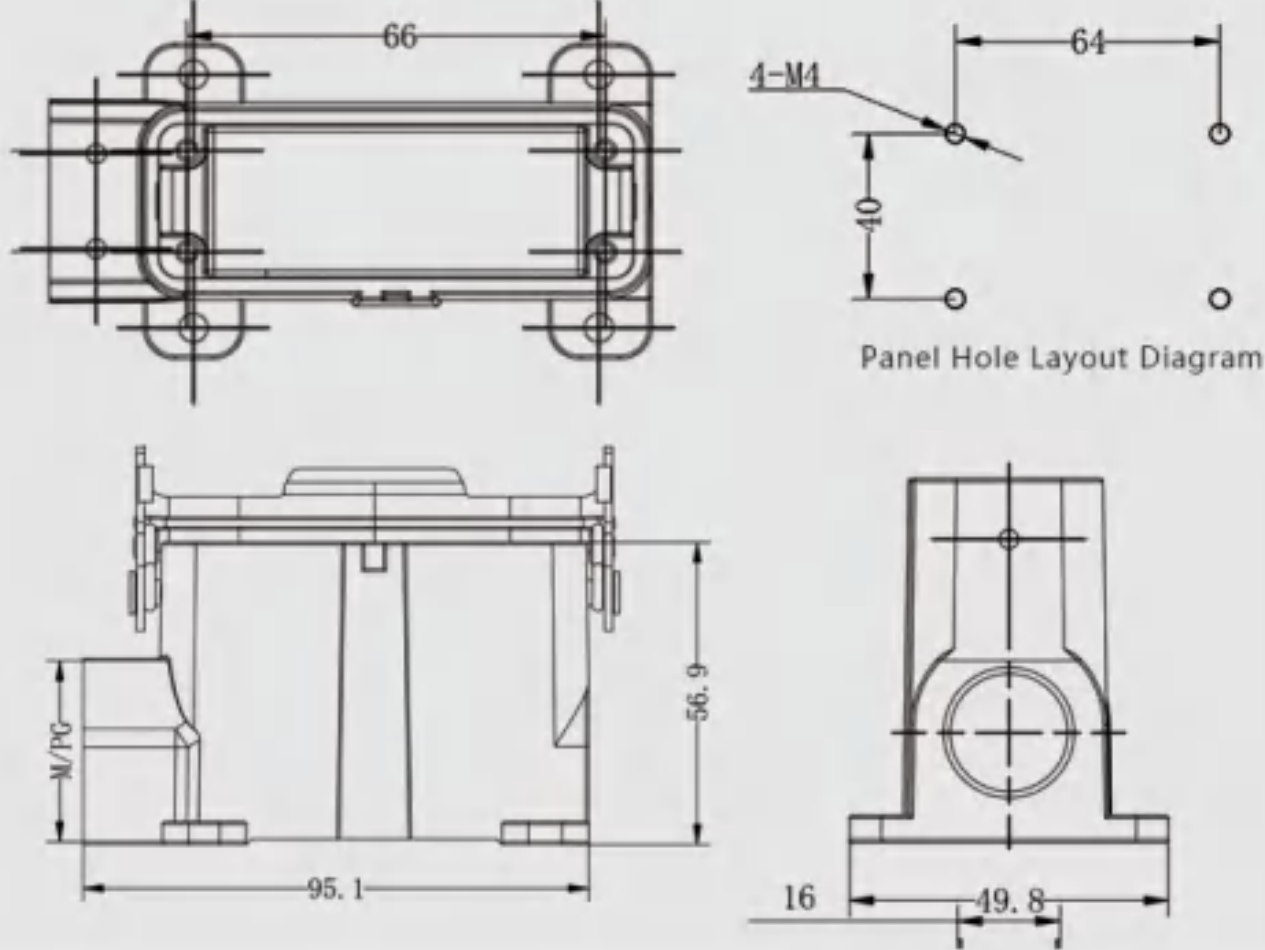
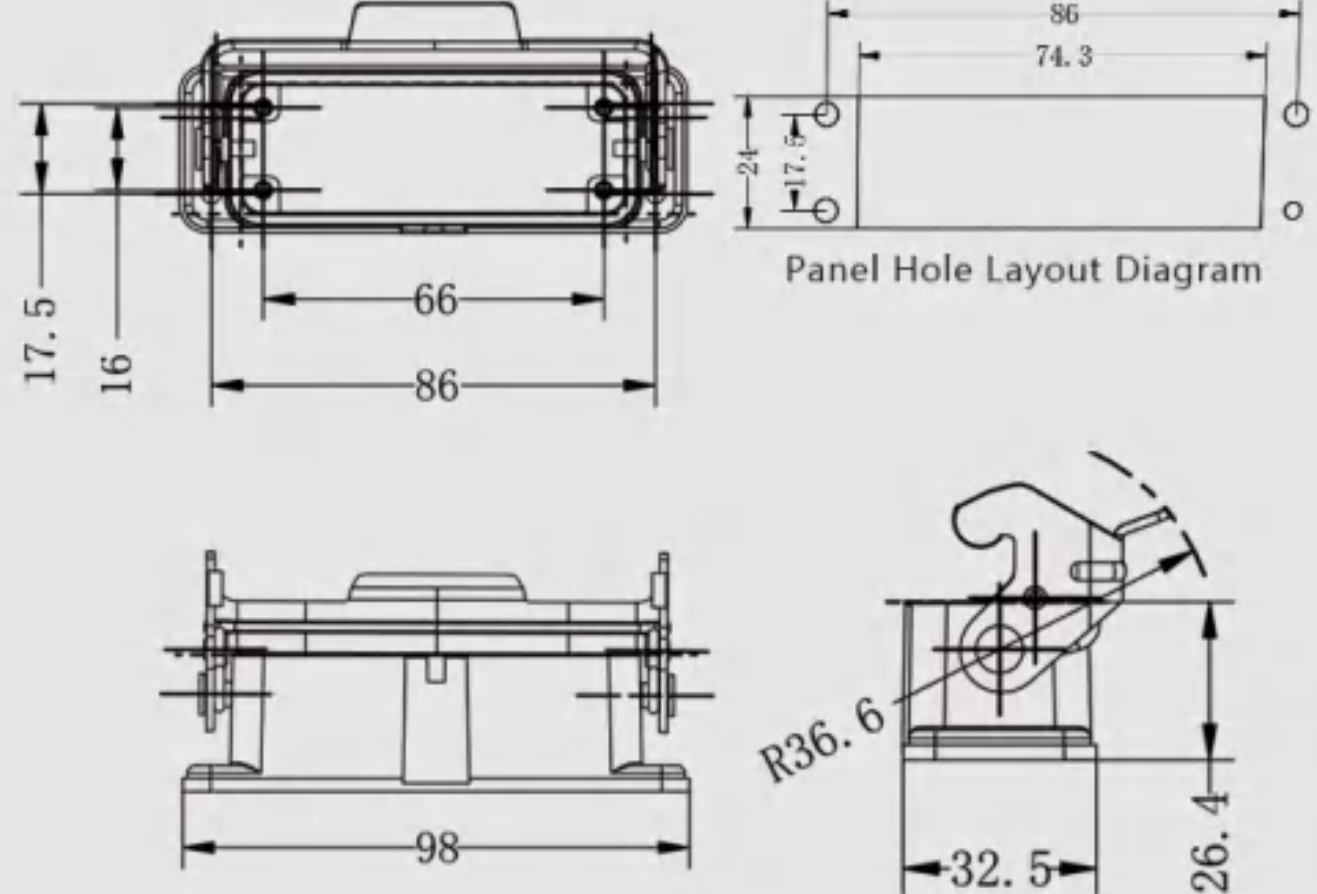
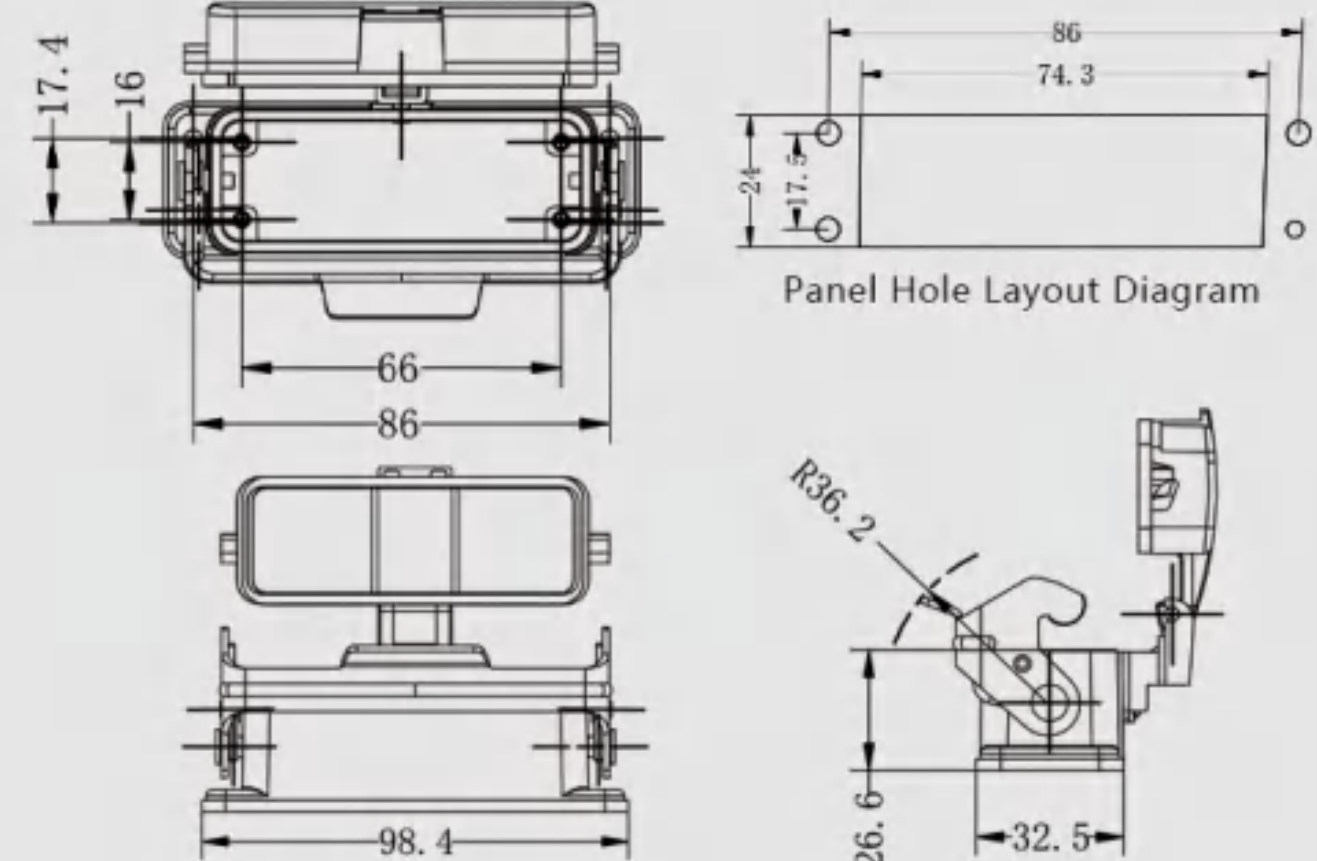


M20	H10A-CTT-1L-M20	2 010 109 10 120
PG16	H10A-CTT-1L-PG16	2 010 109 10 116

WEVEL
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Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods,side entry	M20	H16A-SO-2B-M20	2 016 102 02 120		
	M25	H16A-SO-2B-M25	2 016 102 02 125		
	PG13.5	H16A-SO-2B-PG13.5	2 016 102 02 113		
	PG16	H16A-SO-2B-PG16	2 016 102 02 116		
	PG21	H16A-SO-2B-PG21	2 016 102 02 121		
Hoods,top entry	M20	H16A-TO-2B-M20	2 016 101 02 120		
	M25	H16A-TO-2B-M25	2 016 101 02 125		
	M32	H16A-TO-2B-M32	2 016 101 02 132		
	PG13.5	H16A-TO-2B-PG13.5	2 016 101 02 113		
	PG16	H16A-TO-2B-PG16	2 016 101 02 116		
	PG21	H16A-TO-2B-PG21	2 016 101 02 121		
Housings	M20	H16A-SM-1L-M20	2 016 107 10 120		
	M25	H16A-SM-1L-M25	2 016 107 10 125		
	PG16	H16A-SM-1L-PG16	2 016 107 10 116		
	PG21	H16A-SM-1L-PG21	2 016 107 10 121		
	2M20	H16A-SM-1L-2M20	2 016 107 10 220		
	2M25	H16A-SM-1L-2M25	2 016 107 10 225		
	2PG21	H16A-SM-1L-2PG21	2 016 107 10 221		
Bulkhead mounted housings	H16A-HB-1L		2 016 106 10 000		
Bulkhead mounted housings	H16A-HB-1L-CV		2 016 106 14 000		
	H16A-HB-1L-MCV		2 016 106 17 000		

Degree of protection: IP65

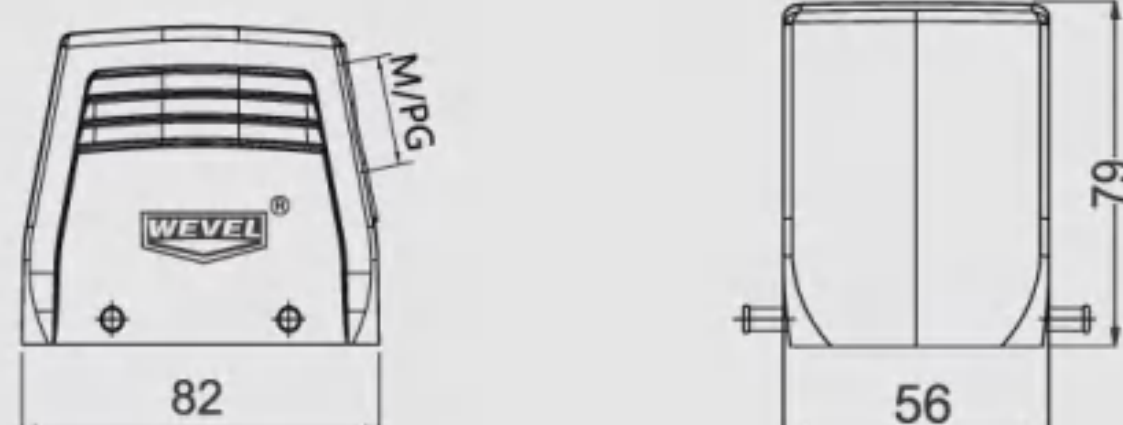
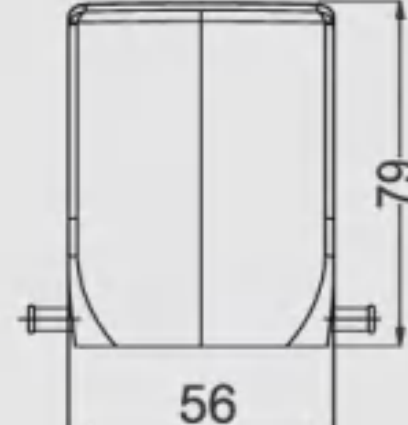
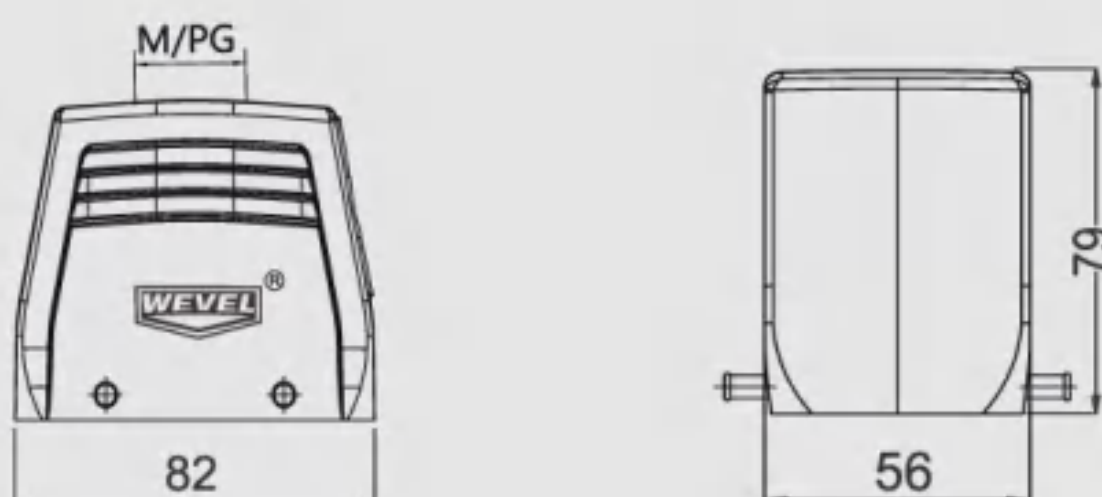
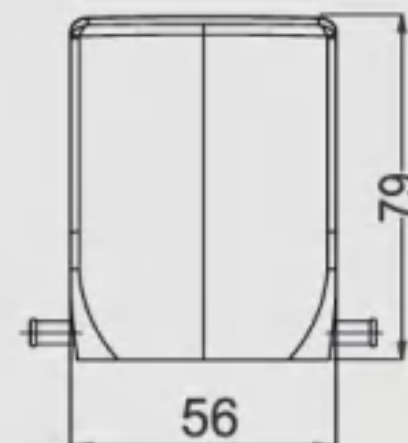
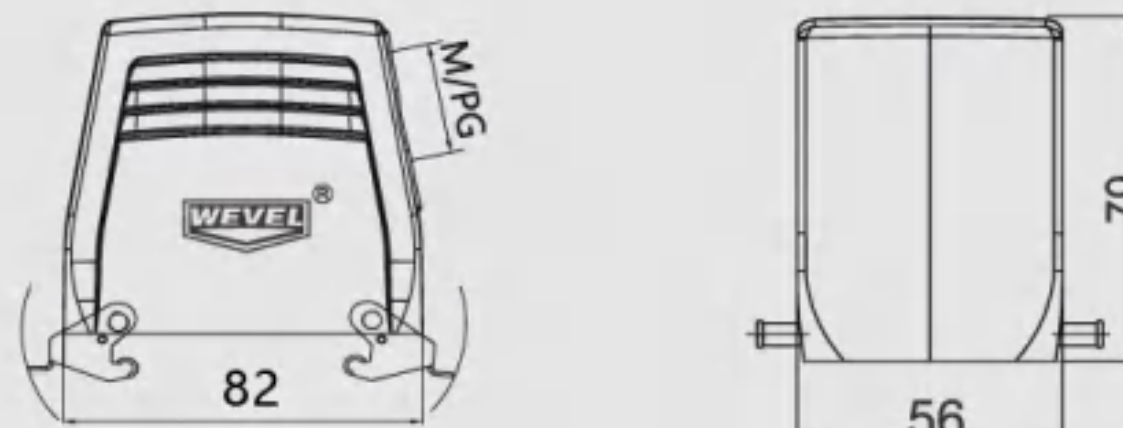
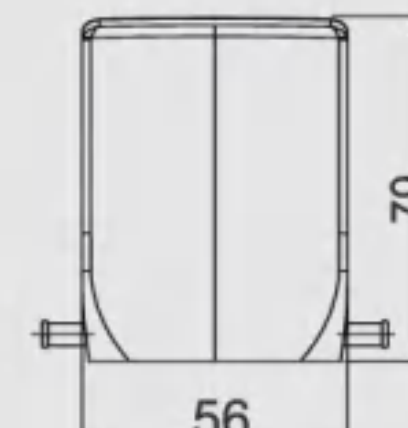
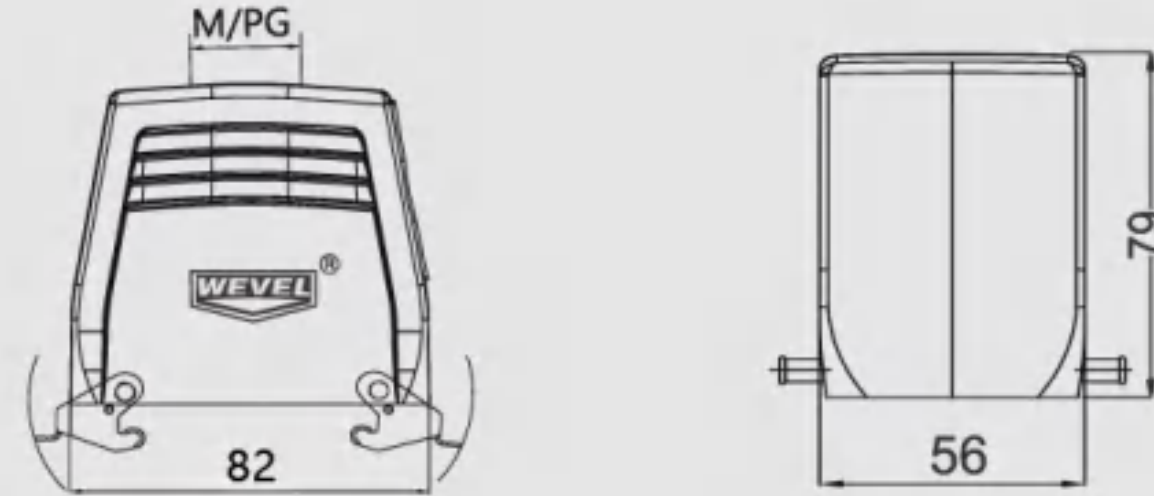
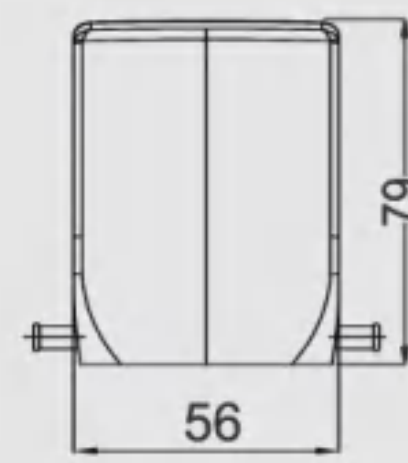
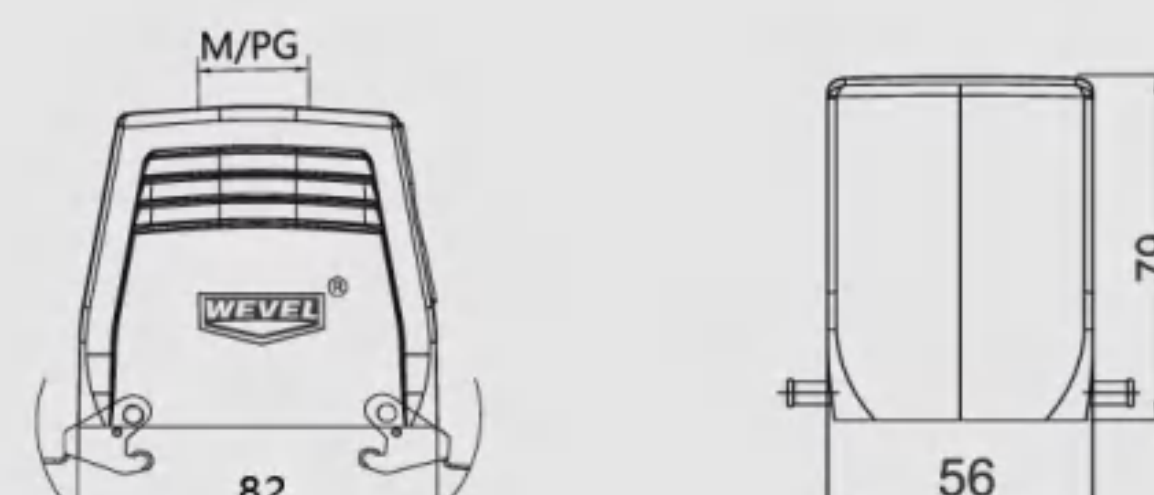
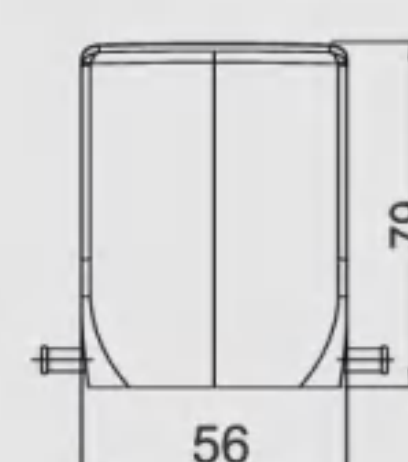
Metal hoods

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H16A

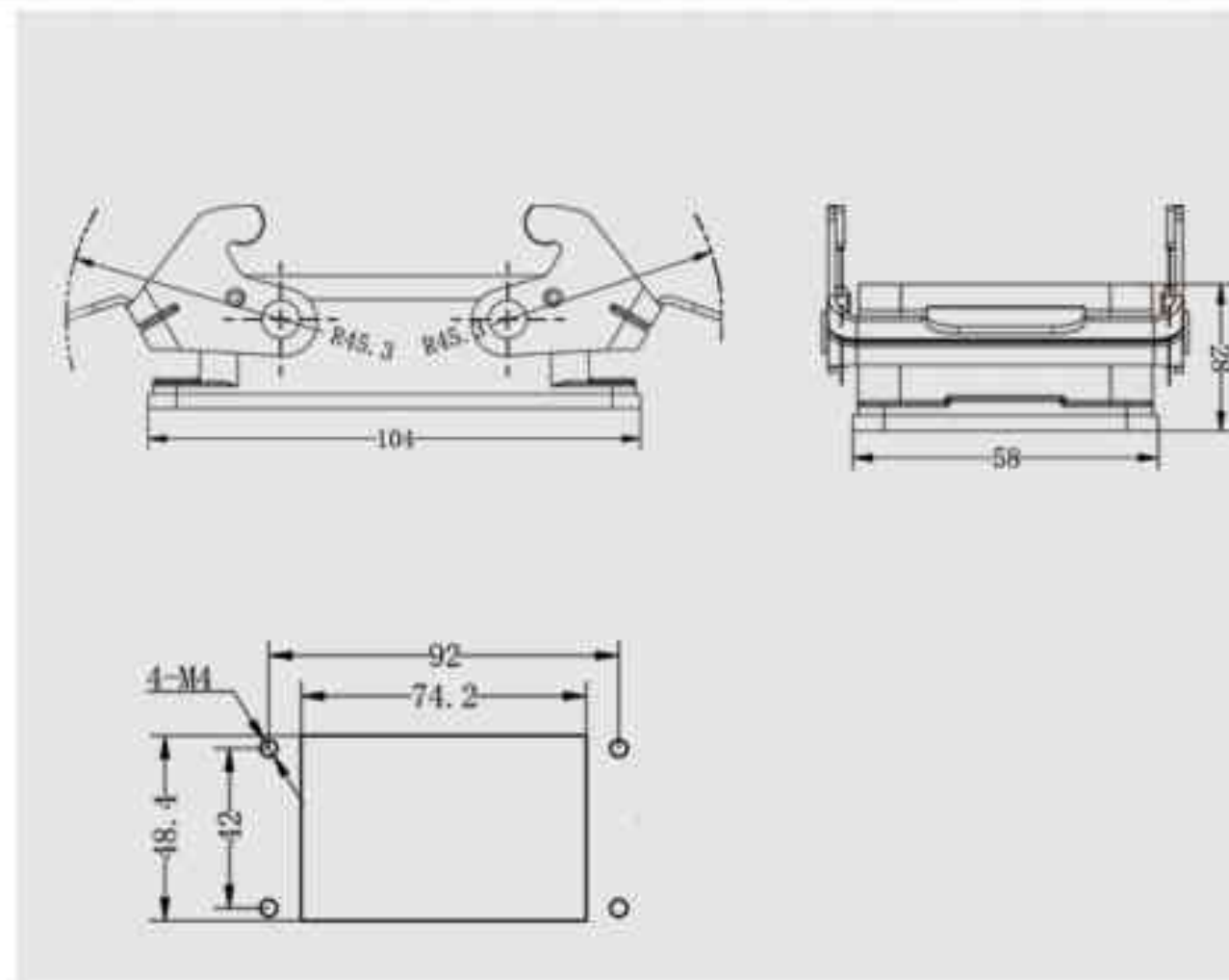
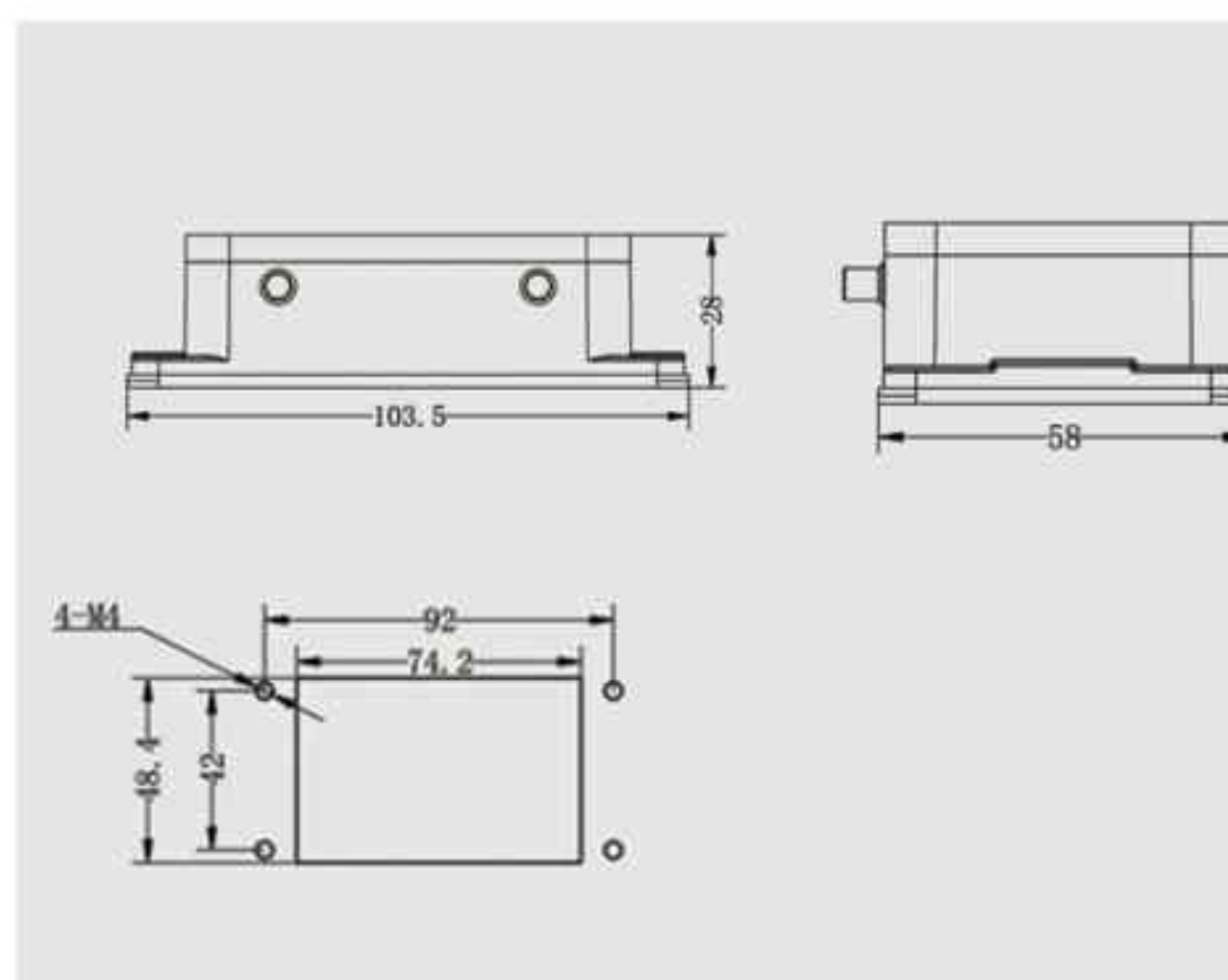
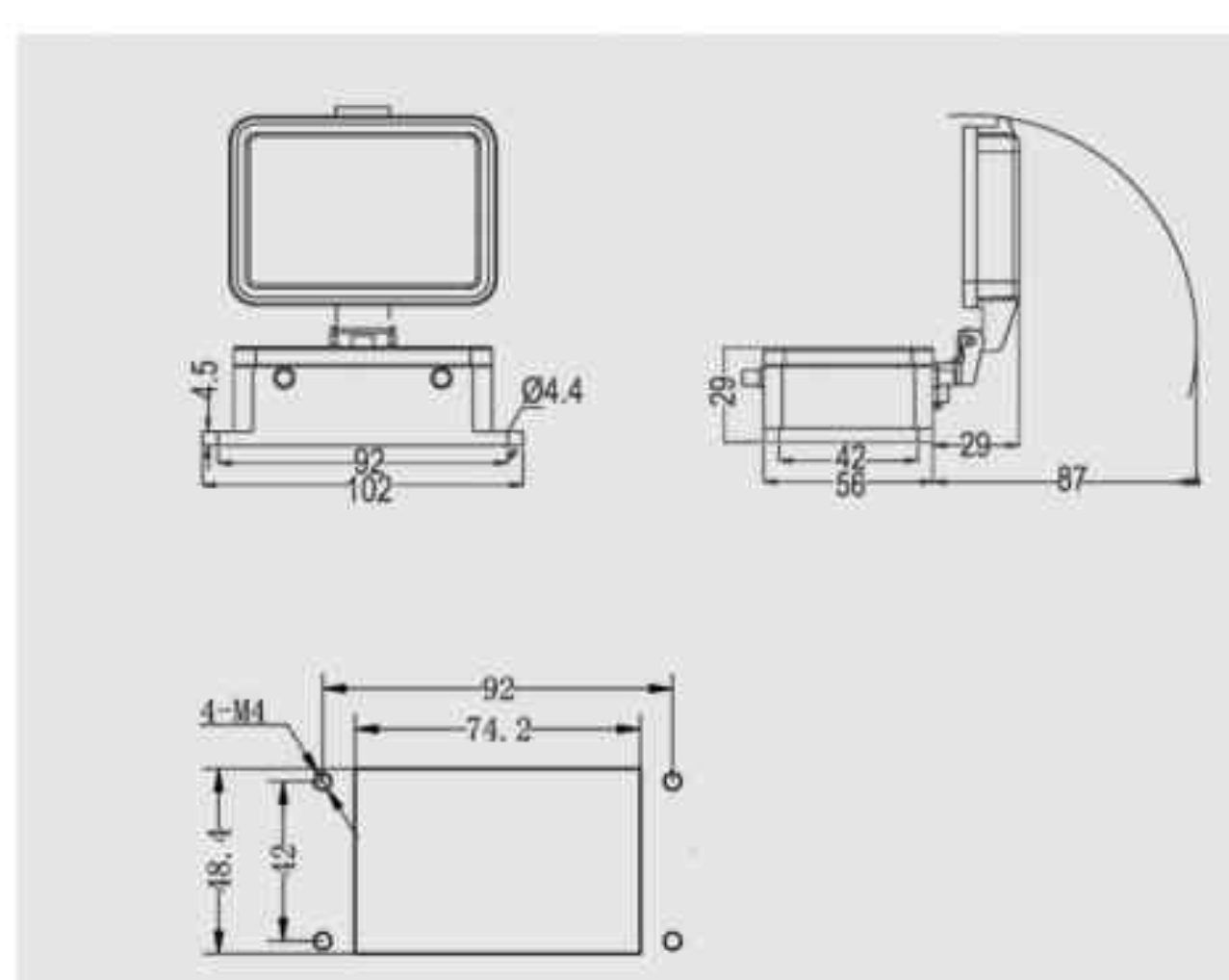
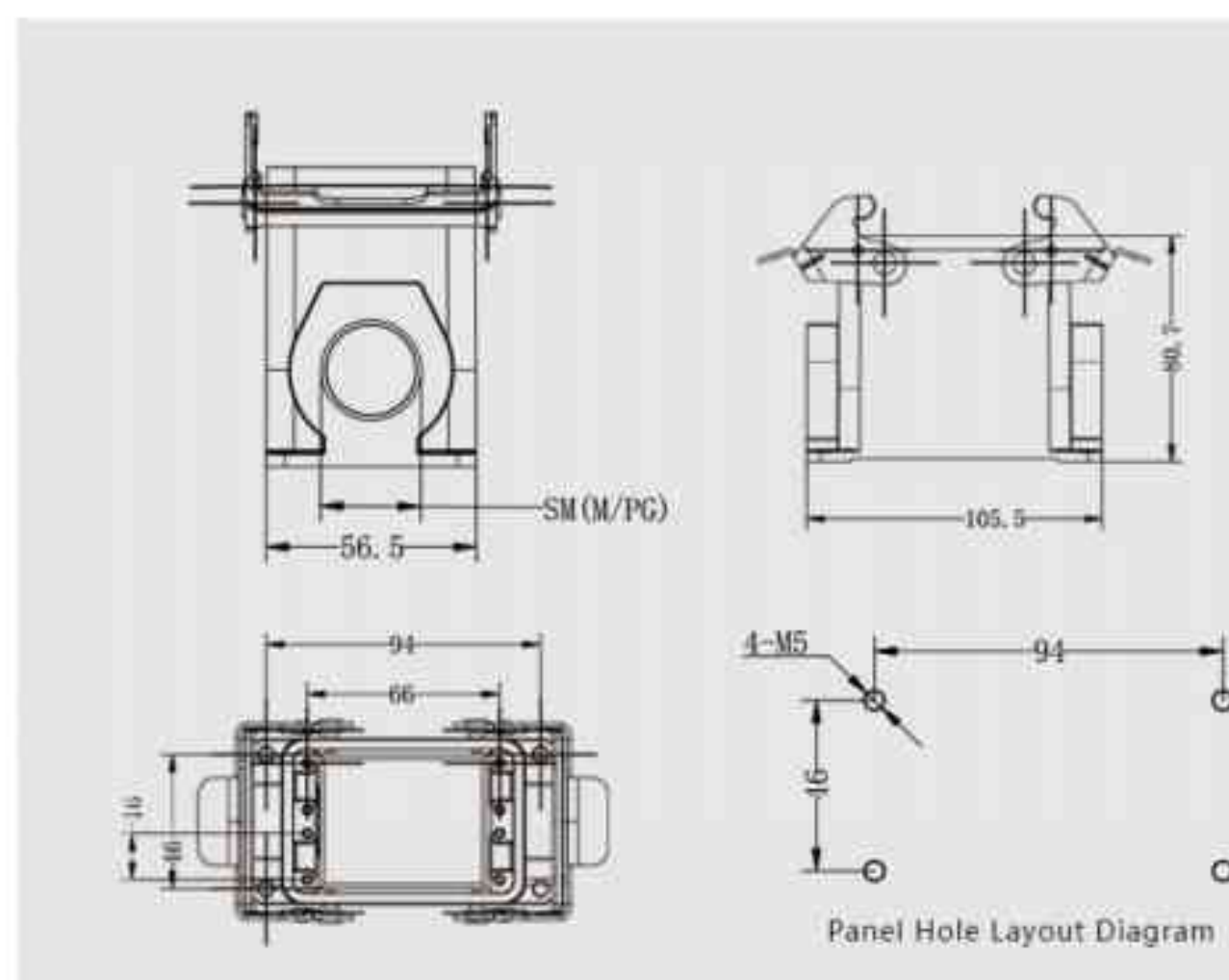
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods,side entry 	M25	H32A-SO-4B-M25	2 032 102 04 125		
	M32	H32A-SO-4B-M32	2 032 102 04 132		
	M40	H32A-SO-4B-M40	2 032 102 04 140		
	M50	H32A-SO-4B-M50	2 032 102 04 150		
	PG16	H32A-SO-4B-PG16	2 032 102 04 116		
	PG21	H32A-SO-4B-PG21	2 032 102 04 121		
	PG29	H32A-SO-4B-PG29	2 032 102 04 129		
Hoods,top entry 	M25	H32A-TO-4B-M25	2 032 101 04 125		
	M32	H32A-TO-4B-M32	2 032 101 04 132		
	M40	H32A-TO-4B-M40	2 032 101 04 140		
	PG16	H32A-TO-4B-PG16	2 032 101 04 116		
	PG21	H32A-TO-4B-PG21	2 032 101 04 121		
	PG29	H32A-TO-4B-PG29	2 032 101 04 129		
Hoods,side entry 	M25	H32A-SO-2L-M25	2 032 102 20 125		
	M32	H32A-SO-2L-M32	2 032 102 20 132		
	PG21	H32A-SO-2L-PG21	2 032 102 20 121		
	PG29	H32A-SO-2L-PG29	2 032 102 20 129		
Hoods,top entry 	M25	H32A-TO-2L-M25	2 032 101 20 125		
	M32	H32A-TO-2L-M32	2 032 101 20 132		
	PG21	H32A-TO-2L-PG21	2 032 101 20 121		
	PG29	H32A-TO-2L-PG29	2 032 101 20 129		
Housings,cable to cable 	M25	H32A-CTT-2L-M25	2 032 109 20 125		
	M32	H32A-CTT-2L-M32	2 032 109 20 132		
	PG21	H32A-CTT-2L-PG21	2 032 109 20 121		
	PG29	H32A-CTT-2L-PG29	2 032 109 20 129		

Degree of protection: IP65

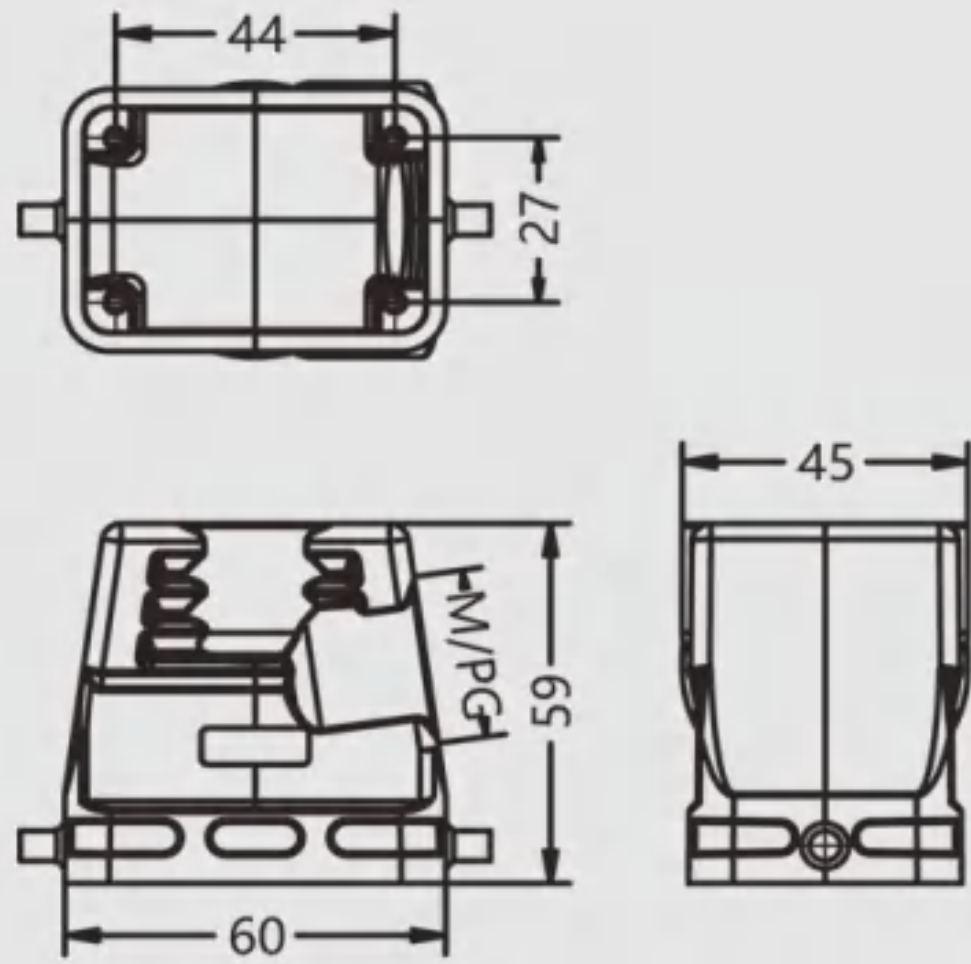
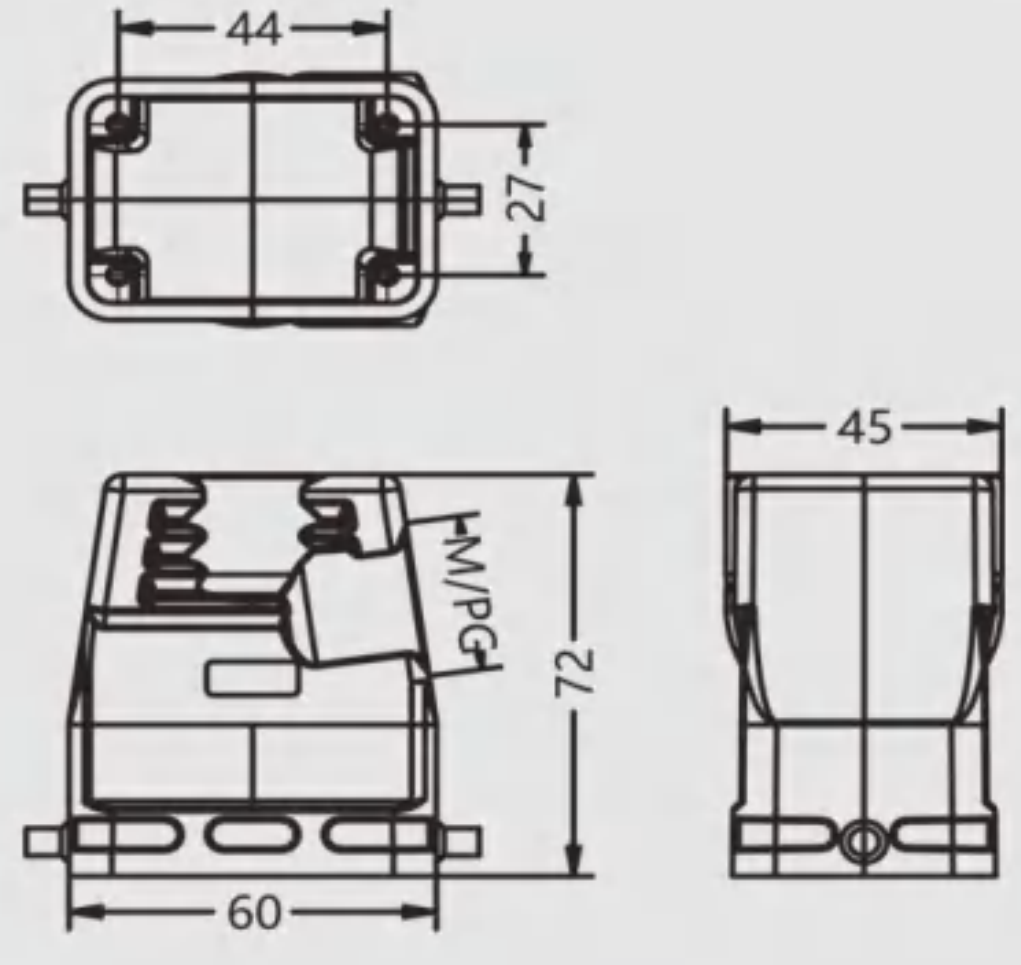
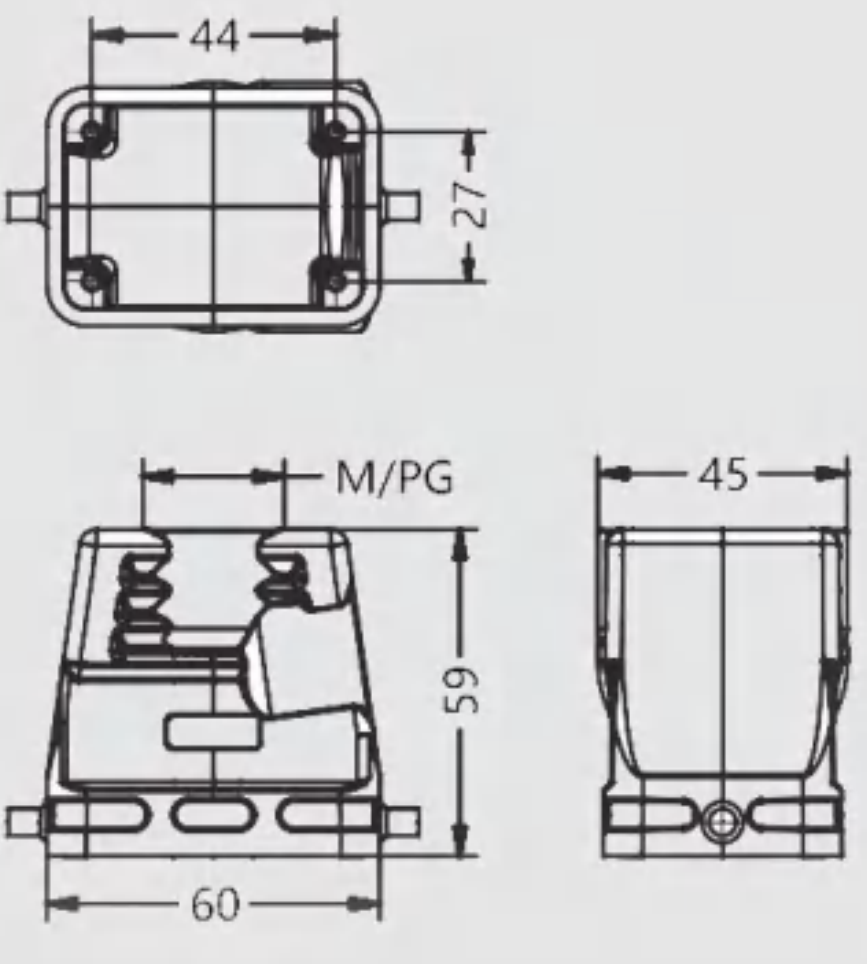
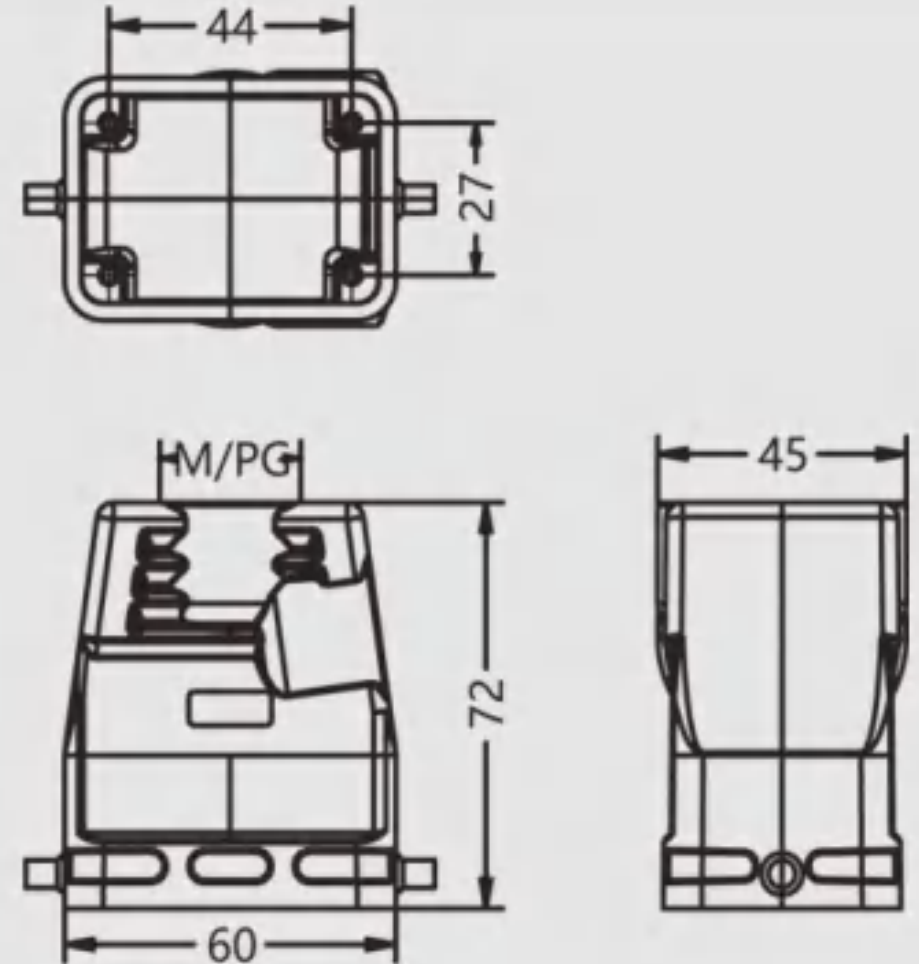
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm	
Bulkhead mounted housings		H32A-HB-2L	2 032 106 20 000			
						
Bulkhead mounted housings		H32A-HB-4B	2 032 106 04 000			
						
Bulkhead mounted housings		H32A-HB-4B-CV	2 032 106 05 000			
		H32A-HB-4B-MCV	2 032 106 06 000			
Housings		M25	H32A-SM-2L-M25	2 032 107 20 125	 Panel Hole Layout Diagram	
		M32	H32A-SM-2L-M32	2 032 107 20 132		
		PG21	H32A-SM-2L-PG21	2 032 107 20 121		
		PG29	H32A-SM-2L-PG29	2 032 107 20 129		
		2M32	H32A-SM-2L-2M32	2 032 107 20 232		
		2PG21	H32A-SM-2L-2PG21	2 032 107 20 221		
		2PG29	H32A-SM-2L-2PG29	2 032 107 20 229		

H32A

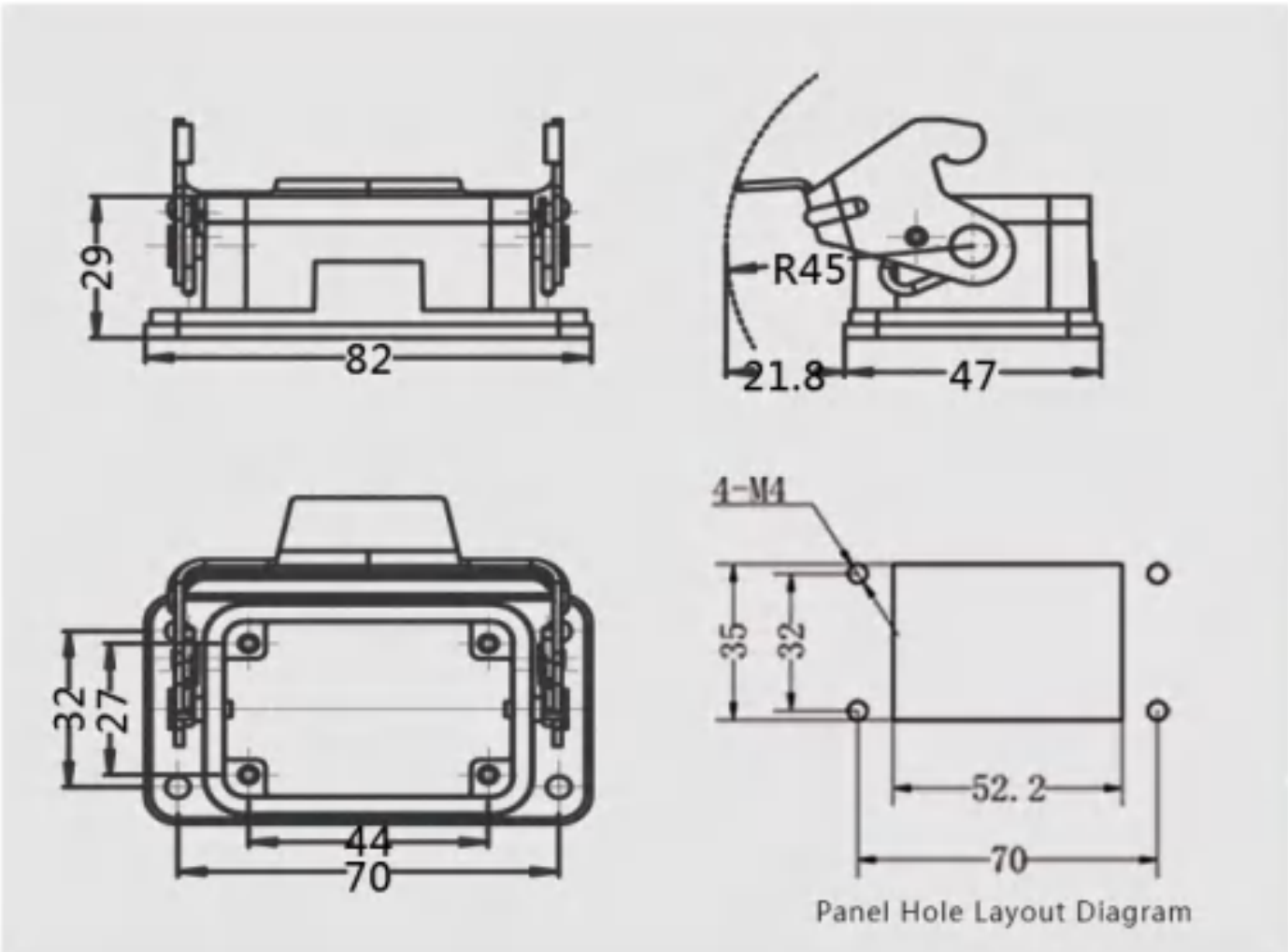
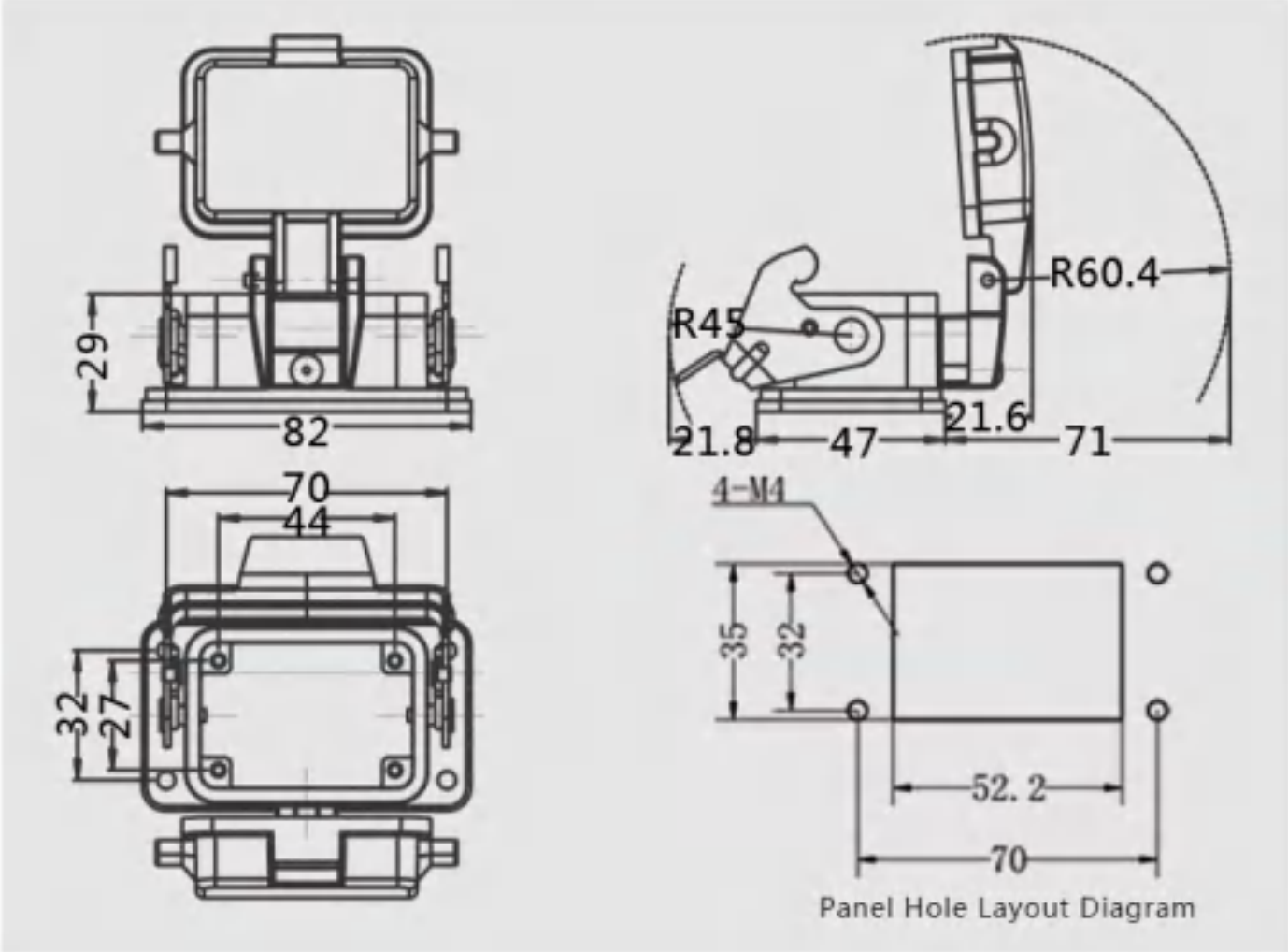
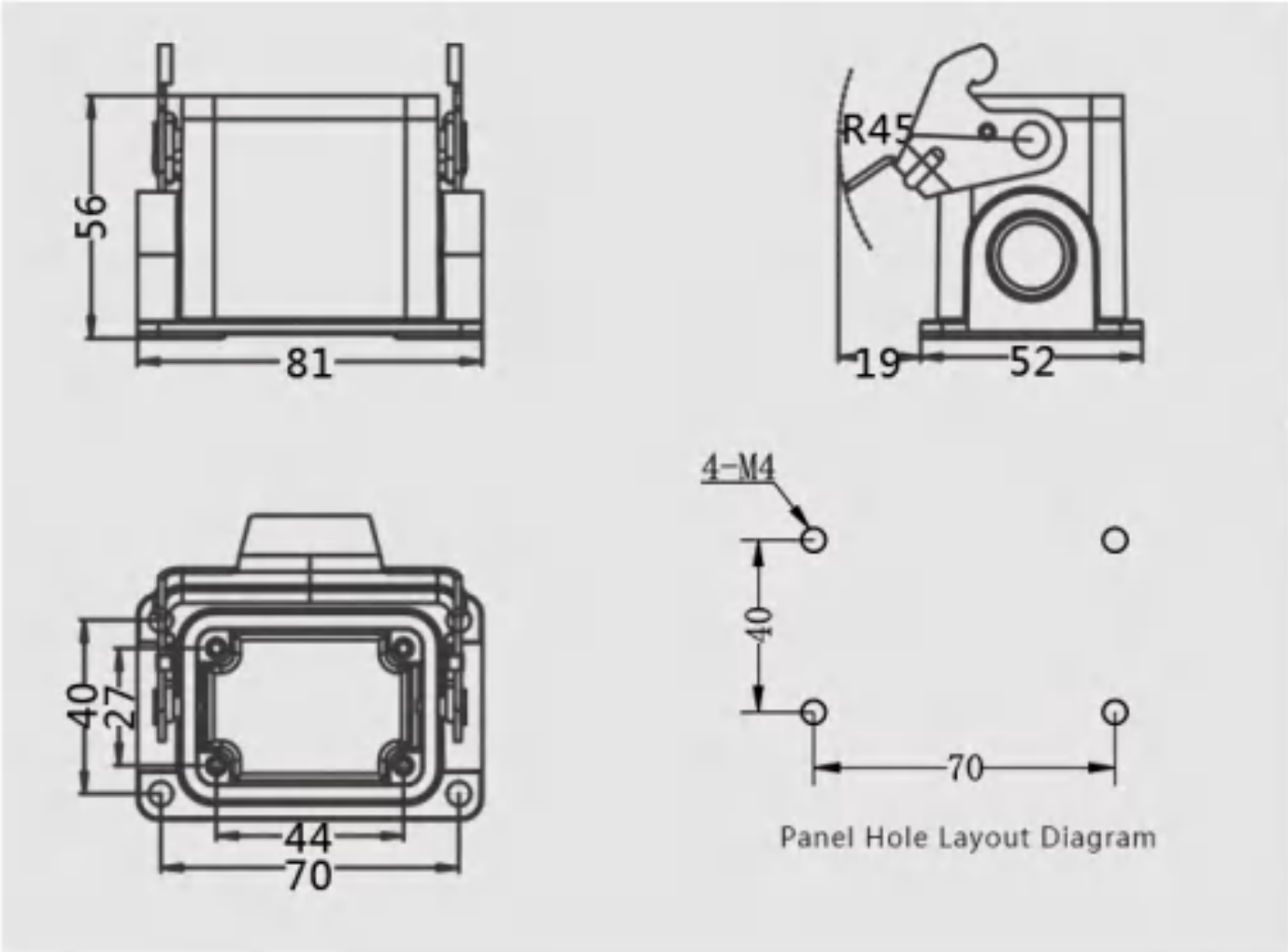
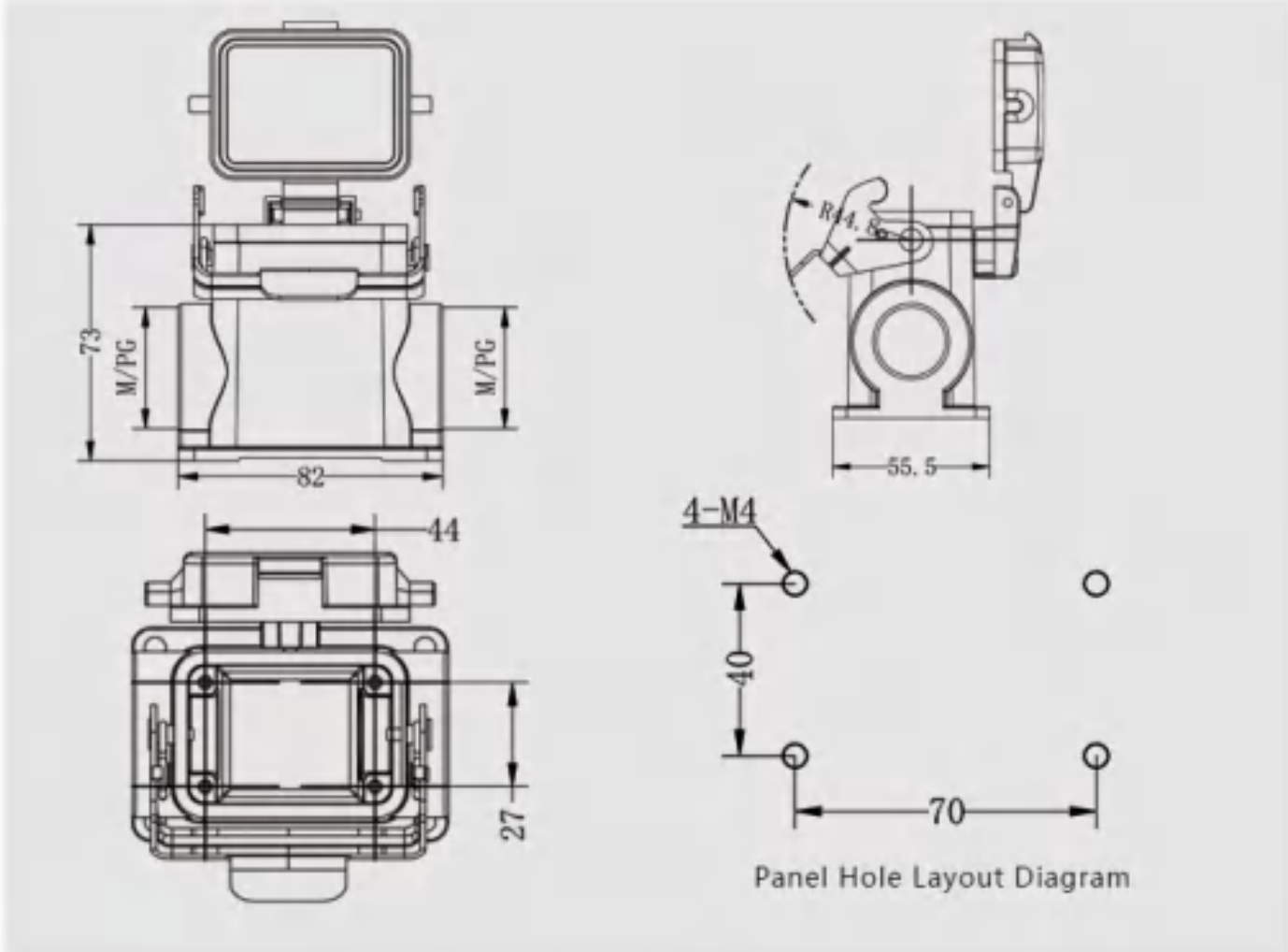
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry 	M20	H6B-SO/P-2B-M20	2 006 324 02 120		
	M25	H6B-SO/P-2B-M25	2 006 324 02 125		
	PG13.5	H6B-SO/P-2B-PG13.5	2 006 324 02 113		
	PG16	H6B-SO/P-2B-PG16	2 006 324 02 116		
Hoods, side entry, high construction 	M20	H6B-SOH/P-2B-M20	2 006 334 02 120		
	M25	H6B-SOH/P-2B-M25	2 006 334 02 125		
	M32	H6B-SOH/P-2B-M32	2 006 334 02 132		
	M40	H6B-SOH/P-2B-M40	2 006 334 02 140		
	PG13.5	H6B-SOH/P-2B-PG13.5	2 006 334 02 113		
	PG16	H6B-SOH/P-2B-PG16	2 006 334 02 116		
	PG21	H6B-SOH/P-2B-PG21	2 006 334 02 121		
	PG29	H6B-SOH/P-2B-PG29	2 006 334 02 129		
Hoods, top entry 	M20	H6B-TO/P-2B-M20	2 006 323 02 120		
	M25	H6B-TO/P-2B-M25	2 006 323 02 125		
	PG13.5	H6B-TO/P-2B-PG13.5	2 006 323 02 113		
	PG16	H6B-TO/P-2B-PG16	2 006 323 02 116		
Hoods, top entry, high construction 	M20	H6B-TOH/P-2B-M20	2 006 335 02 120		
	M25	H6B-TOH/P-2B-M25	2 006 335 02 125		
	M32	H6B-TOH/P-2B-M32	2 006 335 02 132		
	M40	H6B-TOH/P-2B-M40	2 006 335 02 140		
	PG13.5	H6B-TOH/P-2B-PG13.5	2 006 335 02 113		
	PG16	H6B-TOH/P-2B-PG16	2 006 335 02 116		
	PG21	H6B-TOH/P-2B-PG21	2 006 335 02 121		
	PG29	H6B-TOH/P-2B-PG29	2 006 335 02 129		

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H6B-HB-1L	2 006 306 10 000		
Housings, bulkhead mounting		H6B-HB-1L-CV	2 006 306 14 000		
		H6B-HB-1L-MCV	2 006 306 17 000		
Housings, surface mounting	M20	H6B-SM-1L-M20	2 006 307 10 120		
	M25	H6B-SM-1L-M25	2 006 307 10 125		
	PG13.5	H6B-SM-1L-PG13.5	2 006 307 10 113		
	PG16	H6B-SM-1L-PG16	2 006 307 10 116		
	2M20	H6B-SM-1L-2M20	2 006 307 10 220		
	2M25	H6B-SM-1L-2M25	2 006 307 10 225		
	2PG16	H6B-SM-1L-2PG16	2 006 307 10 216		
Housings, surface mounting	M20	H6B-SM-1L-CV-M20	2 006 307 14 120		
	M25	H6B-SM-1L-CV-M25	2 006 307 14 125		
	PG13.5	H6B-SM-1L-CV-PG13.5	2 006 307 14 113		
	PG16	H6B-SM-1L-CV-PG16	2 006 307 14 116		
	2M20	H6B-SM-1L-CV-2M20	2 006 307 14 220		
	2M25	H6B-SM-1L-CV-2M25	2 006 307 14 225		
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H6B

Degree of protection: IP65

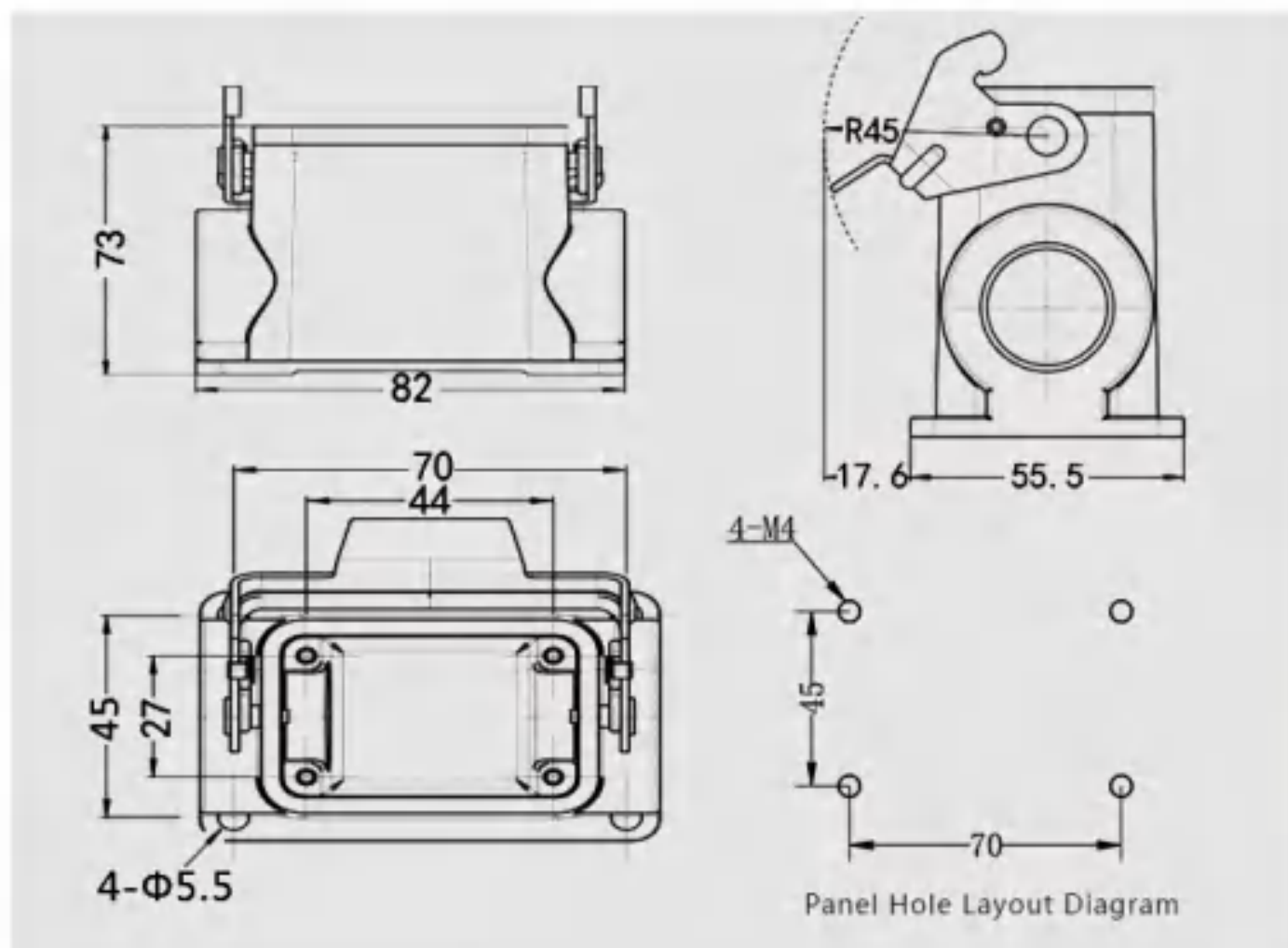
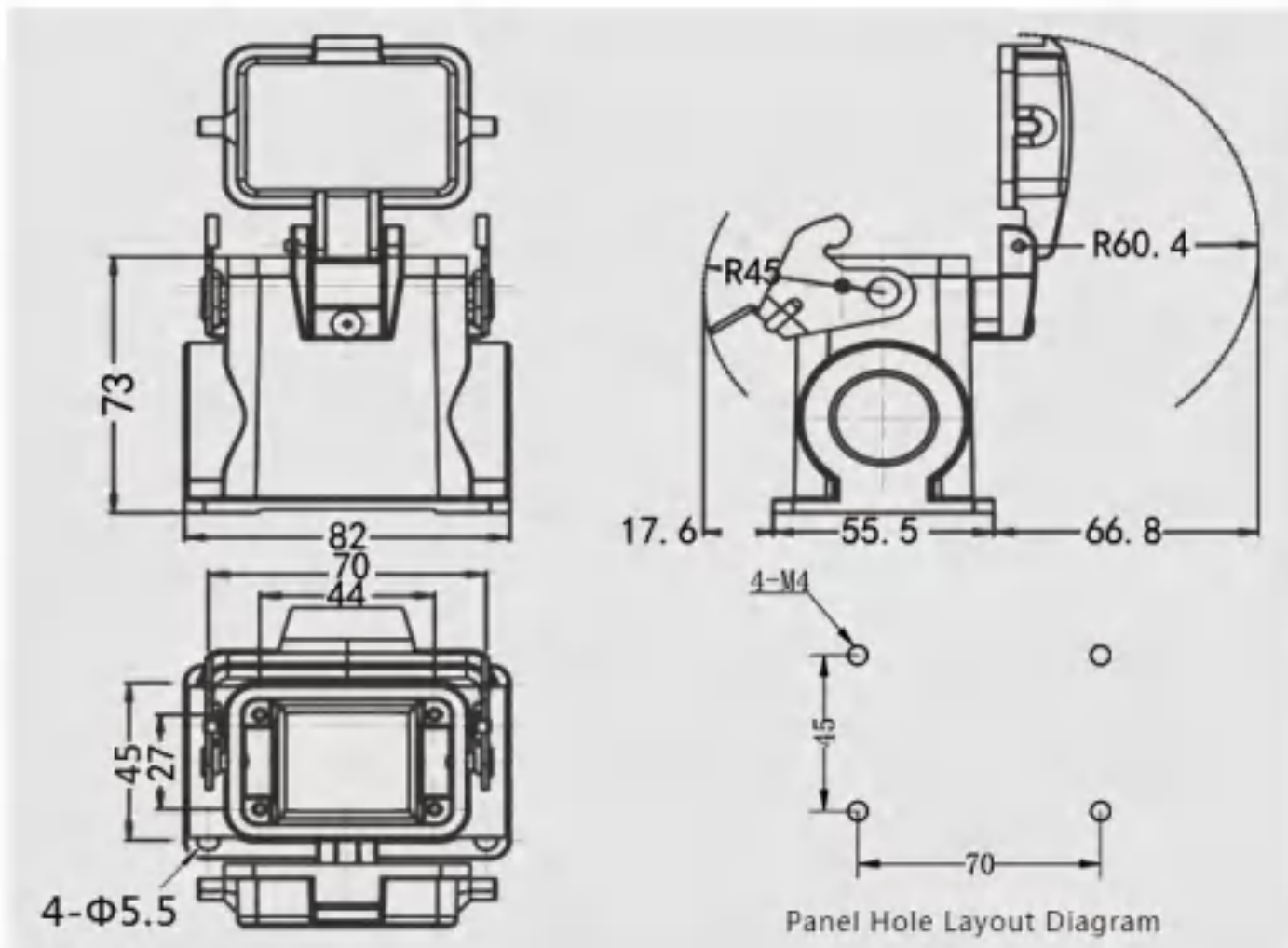
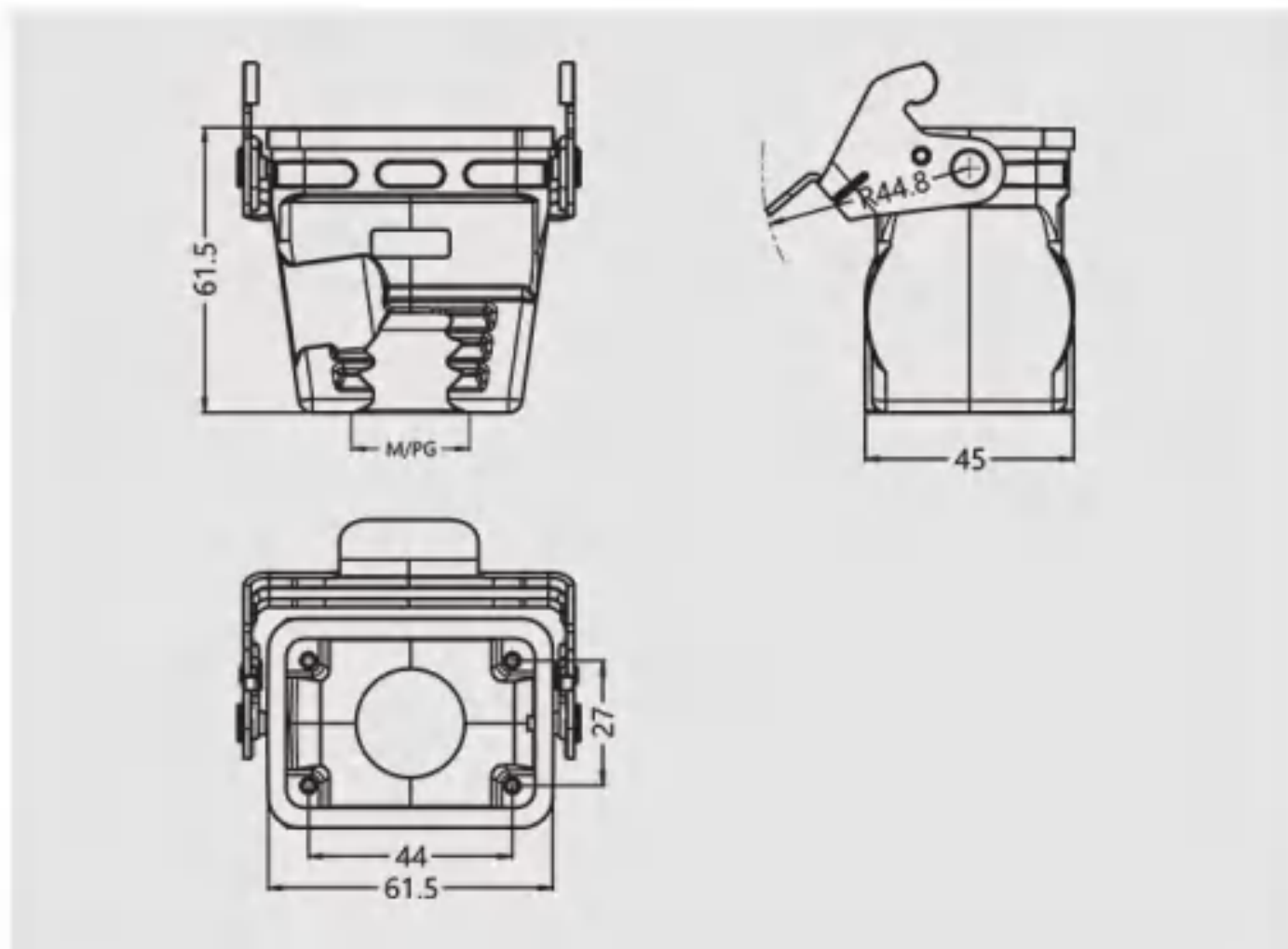
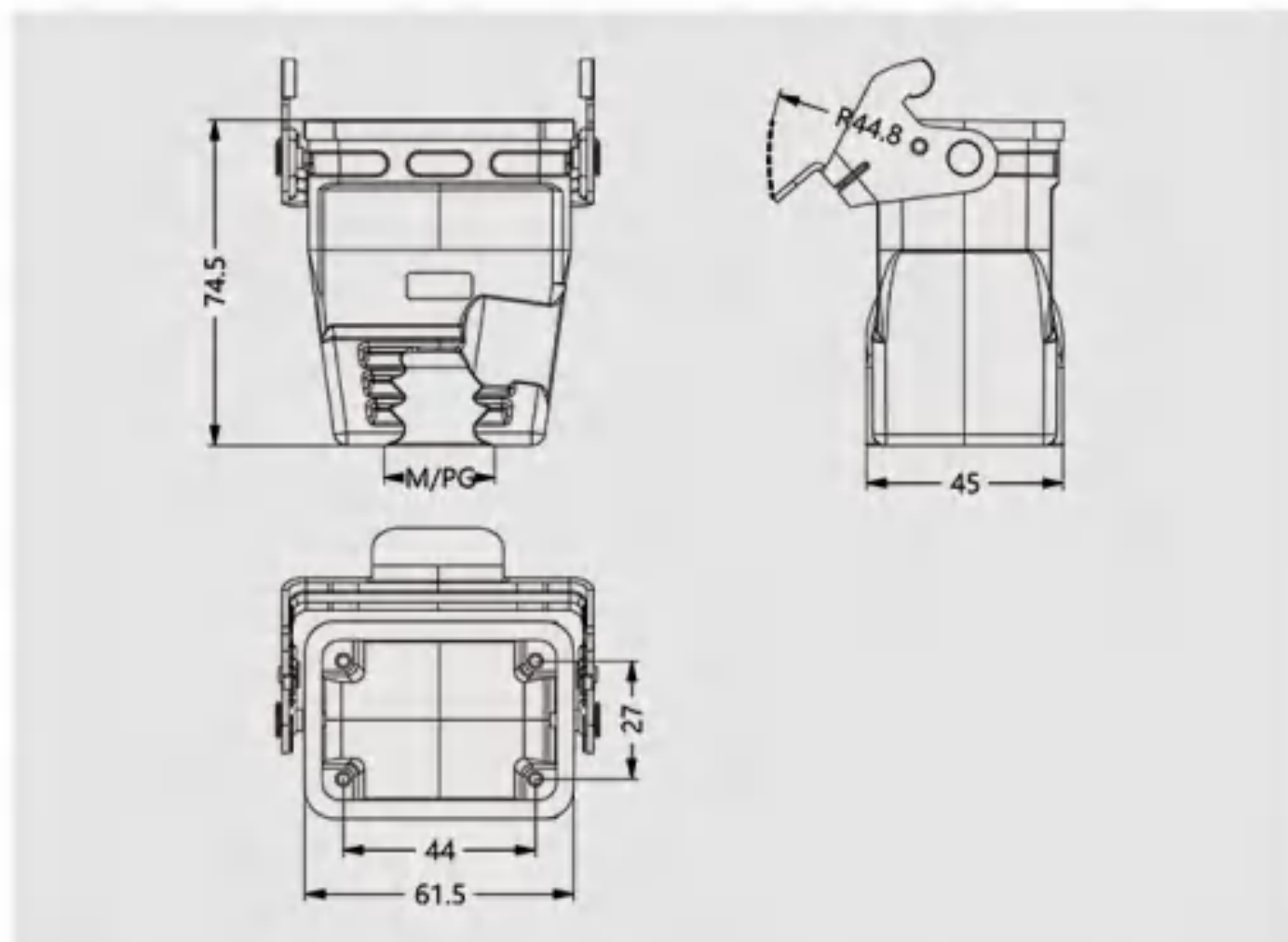
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H6B-HB-1L/P	2 006 306 11 000		
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Housings, bulkhead mounting		H6B-HB-1L/P-CV	2 006 306 15 000		
Housings, bulkhead mounting		H6B-HB-1L/S-CV	2 006 306 16 000		

H6B

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting	M20	H6B-SMH-1L-M20	2 006 308 10 120		
	M25	H6B-SMH-1L-M25	2 006 308 10 125		
	M32	H6B-SMH-1L-M32	2 006 308 10 132		
	PG21	H6B-SMH-1L-PG21	2 006 308 10 121		
	2M32	H6B-SMH-1L-2M32	2 006 308 10 232		
	2M25	H6B-SMH-1L-2M25	2 006 308 10 225		
	2PG21	H6B-SMH-1L-2PG21	2 006 308 10 221		
Housings, surface mounting	M25	H6B-SMH-1L-CV-M25	2 006 308 14 125		
	M32	H6B-SMH-1L-CV-M32	2 006 308 14 132		
	PG16	H6B-SMH-1L-CV-PG16	2 006 308 14 116		
	PG21	H6B-SMH-1L-CV-PG21	2 006 308 14 121		
	PG29	H6B-SMH-1L-CV-PG29	2 006 308 14 129		
	2M32	H6B-SMH-1L-CV-2M32	2 006 308 14 232		
	2M25	H6B-SMH-1L-CV-2M25	2 006 308 14 225		
2PG21	H6B-SMH-1L-CV-2PG21	2 006 308 14 221			
Housings, cable to cable	M20	H6B-CTT/P-1L-M20	2 006 326 10 120		
	M25	H6B-CTT/P-1L-M25	2 006 326 10 125		
	PG13.5	H6B-CTT/P-1L-PG13.5	2 006 326 10 113		
	PG16	H6B-CTT/P-1L-PG16	2 006 326 10 116		
Housings, cable to cable	M20	H6B-CTTH/P-1L-M20	2 006 348 10 120		
	M25	H6B-CTTH/P-1L-M25	2 006 348 10 125		
	M32	H6B-CTTH/P-1L-M32	2 006 348 10 132		
	PG13.5	H6B-CTTH/P-1L-PG13.5	2 006 348 10 113		
	PG16	H6B-CTTH/P-1L-PG16	2 006 348 10 116		
	PG21	H6B-CTTH/P-1L-PG21	2 006 348 10 121		
	PG29	H6B-CTTH/P-1L-PG29	2 006 348 10 129		
Housings, cable to cable	M20	H6B-CTTH-1L/P-M20	2 006 310 11 120	Drawing	
					

H6B

Metal hoods

H6B

Degree of protection: IP65

Metal hoods

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H6B

Metal hoods

H6B

Degree of protection: IP68

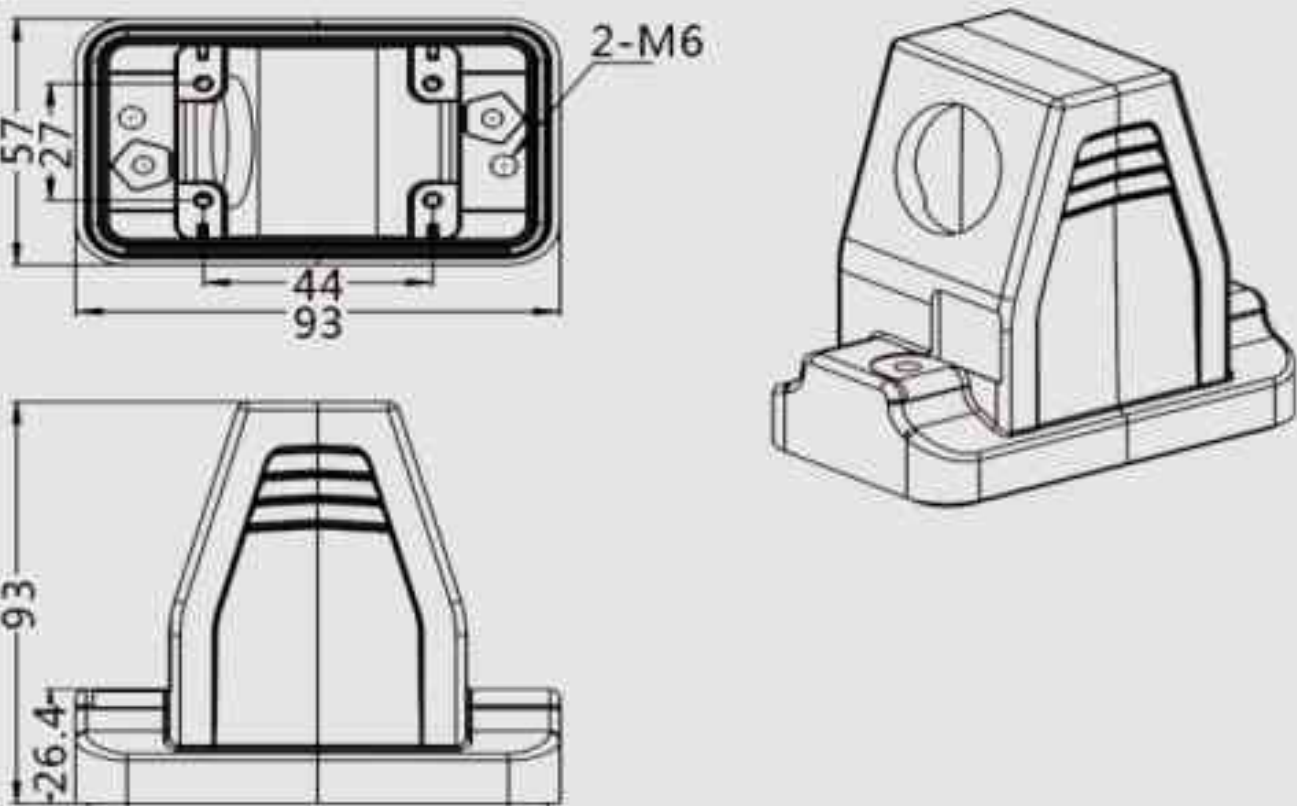
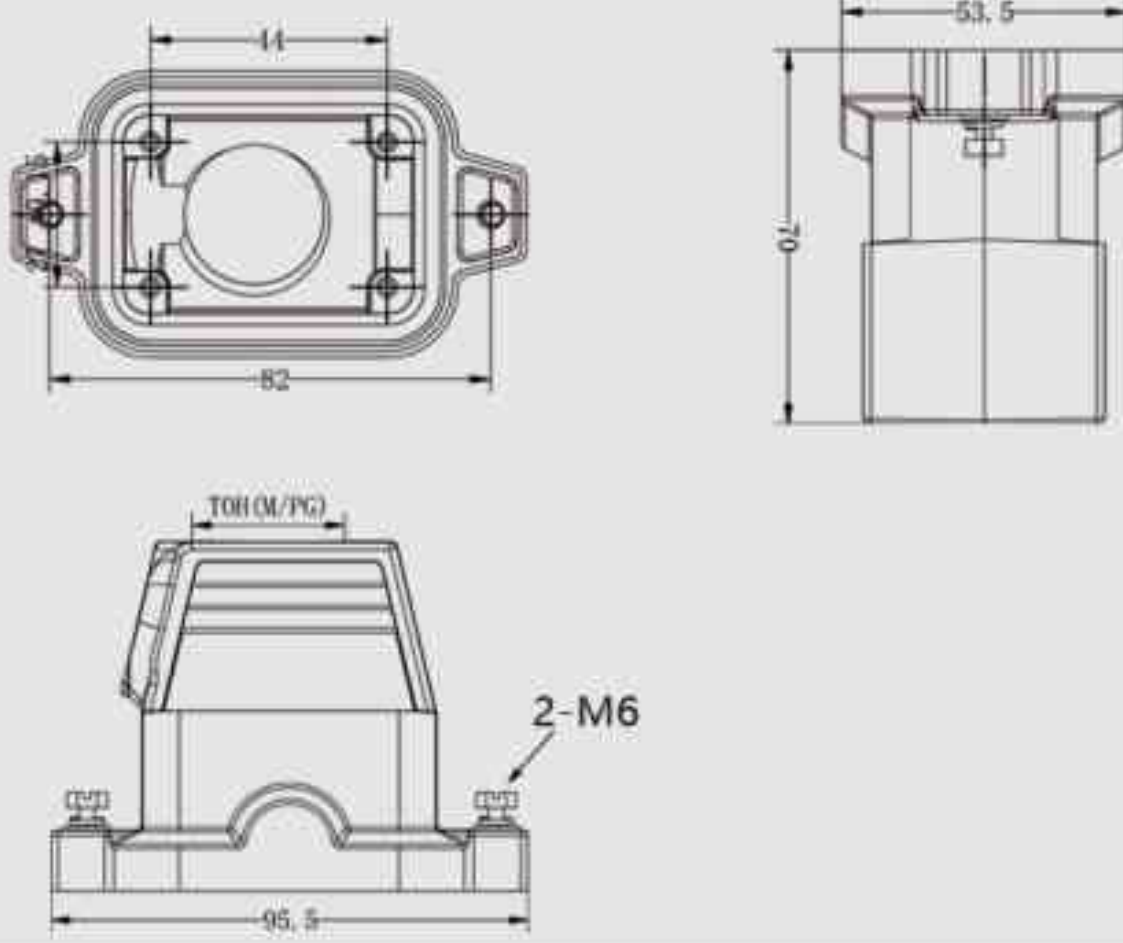
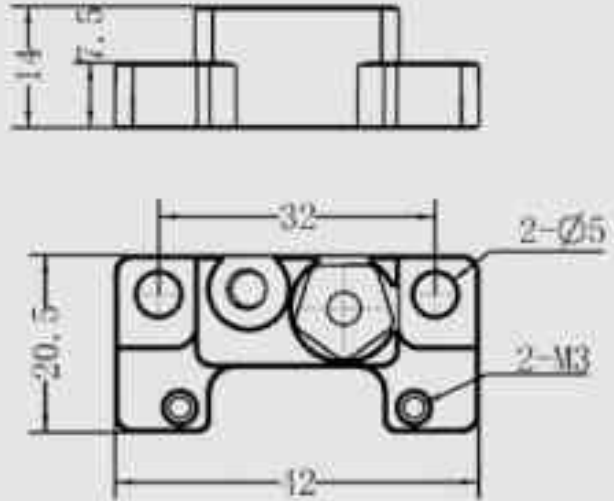
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction	M25	H6BPR-SOH-2T-M25	2 006 304 40 125		
	M32	H6BPR-SOH-2T-M32	2 006 304 40 132		
	M40	H6BPR-SOH-2T-M40	2 006 304 40 140		
	PG16	H6BPR-SOH-2T-PG16	2 006 304 40 116		
	PG21	H6BPR-SOH-2T-PG21	2 006 304 40 121		
	PG29	H6BPR-SOH-2T-PG29	2 006 304 40 129		
Hoods, top entry, high construction	M25	H6BPR-TOH-2T-M25	2 006 303 40 125		
	M32	H6BPR-TOH-2T-M32	2 006 303 40 132		
	M40	H6BPR-TOH-2T-M40	2 006 303 40 140		
	PG16	H6BPR-TOH-2T-PG16	2 006 303 40 116		
	PG21	H6BPR-TOH-2T-PG21	2 006 303 40 121		
	PG29	H6BPR-TOH-2T-PG29	2 006 303 40 129		
Housings, bulkhead mounting	H6BPR-HB-2T		2 006 306 40 000		
Protection covers	H6BPR-CV-2T		2 006 315 00 000		

H6B

Degree of protection: IP68

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction	M20	H6BPR-SOH-2T/C-M20	2 006 304 42 120		
	M25	H6BPR-SOH-2T/C-M25	2 006 304 42 125		
	M32	H6BPR-SOH-2T/C-M32	2 006 304 42 132		
	M40	H6BPR-SOH-2T/C-M40	2 006 304 42 140		
	PG16	H6BPR-SOH-2T/C-PG16	2 006 304 42 116		
	PG21	H6BPR-SOH-2T/C-PG21	2 006 304 42 121		
	PG29	H6BPR-SOH-2T/C-PG29	2 006 304 42 129		
Hoods, top entry, high construction	M20	H6BPR-TOH-2T/C-M20	2 006 303 42 120		
	M25	H6BPR-TOH-2T/C-M25	2 006 303 42 125		
	M32	H6BPR-TOH-2T/C-M32	2 006 303 42 132		
	PG40	H6BPR-TOH-2T/C-M40	2 006 303 42 140		
	PG16	H6BPR-TOH-2T/C-PG16	2 006 303 42 116		
	PG21	H6BPR-TOH-2T/C-PG21	2 006 303 42 121		
	PG29	H6BPR-TOH-2T/C-PG29	2 006 303 42 129		
Fixed	HB-2T/C		2 000 306 42 000		
Coding Element	CODE-2T/C		3 000 091 00 200		

Degree of protection: IP68

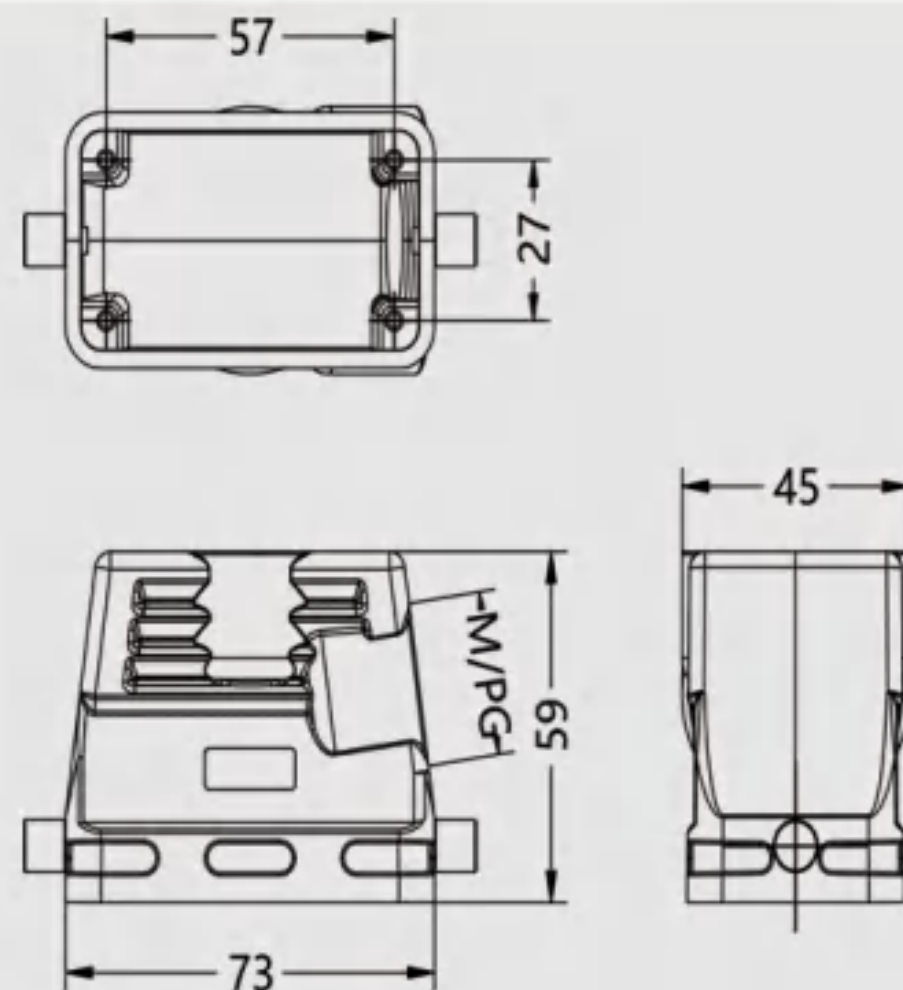
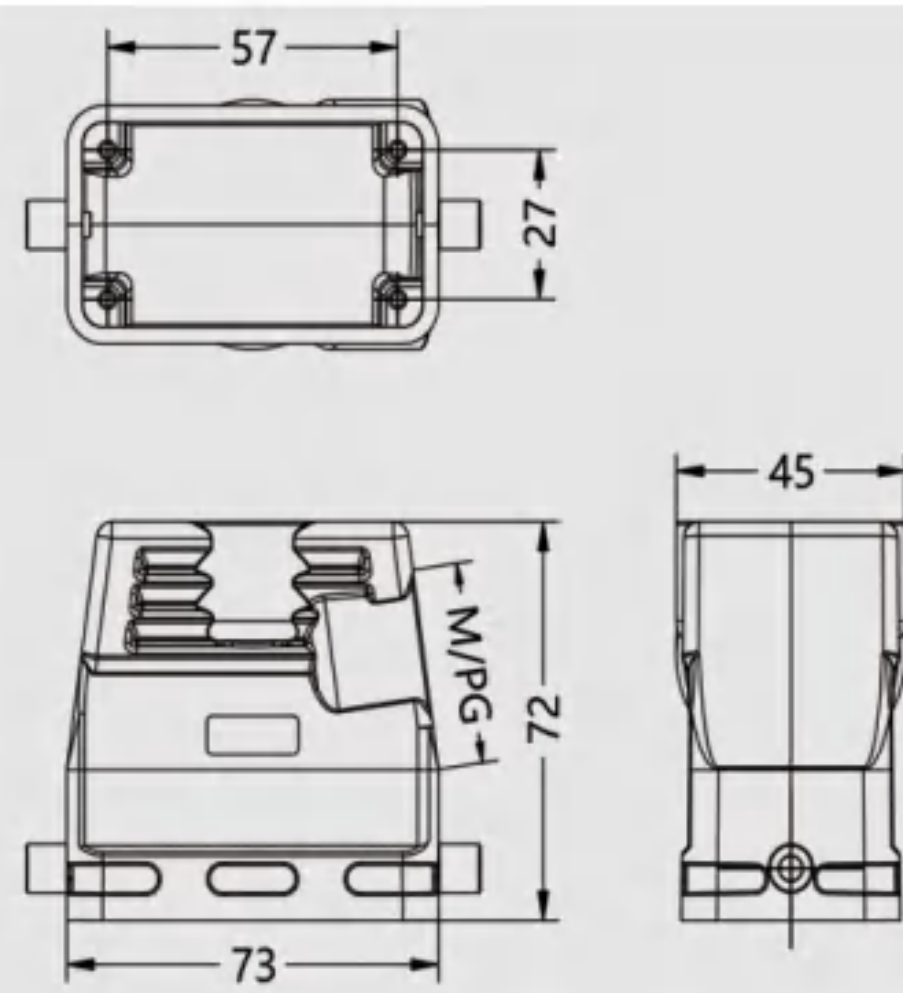
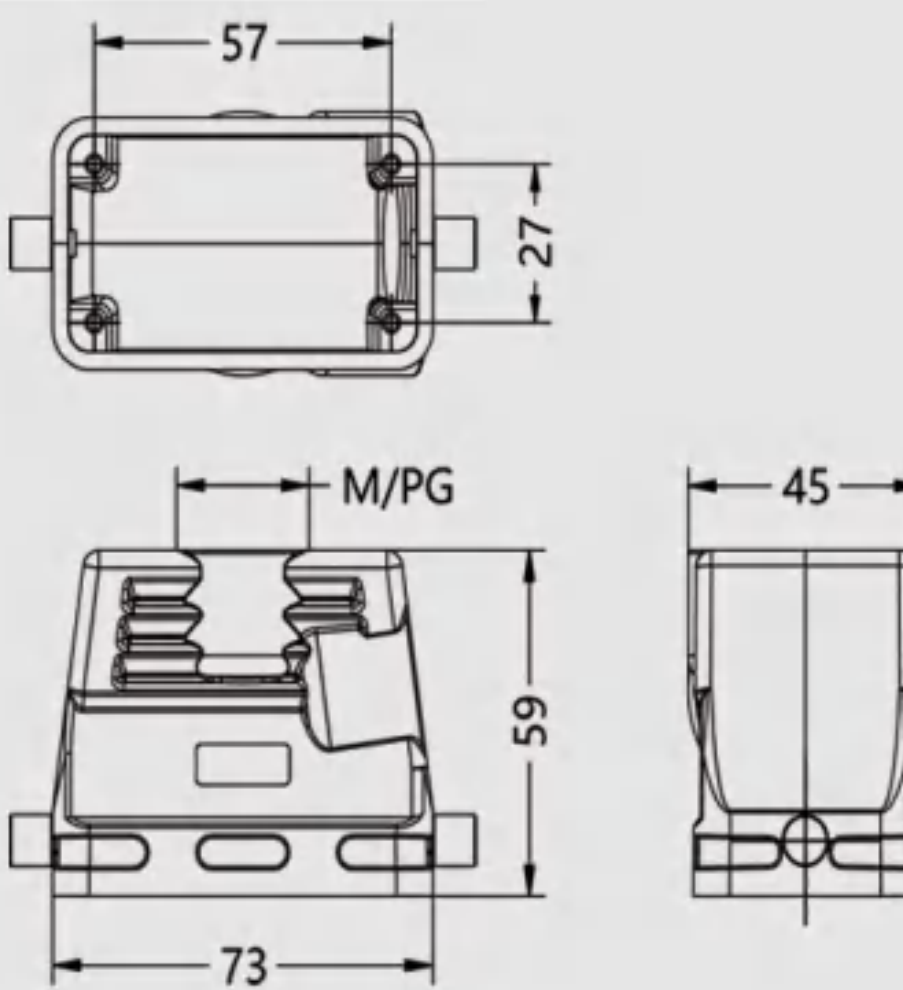
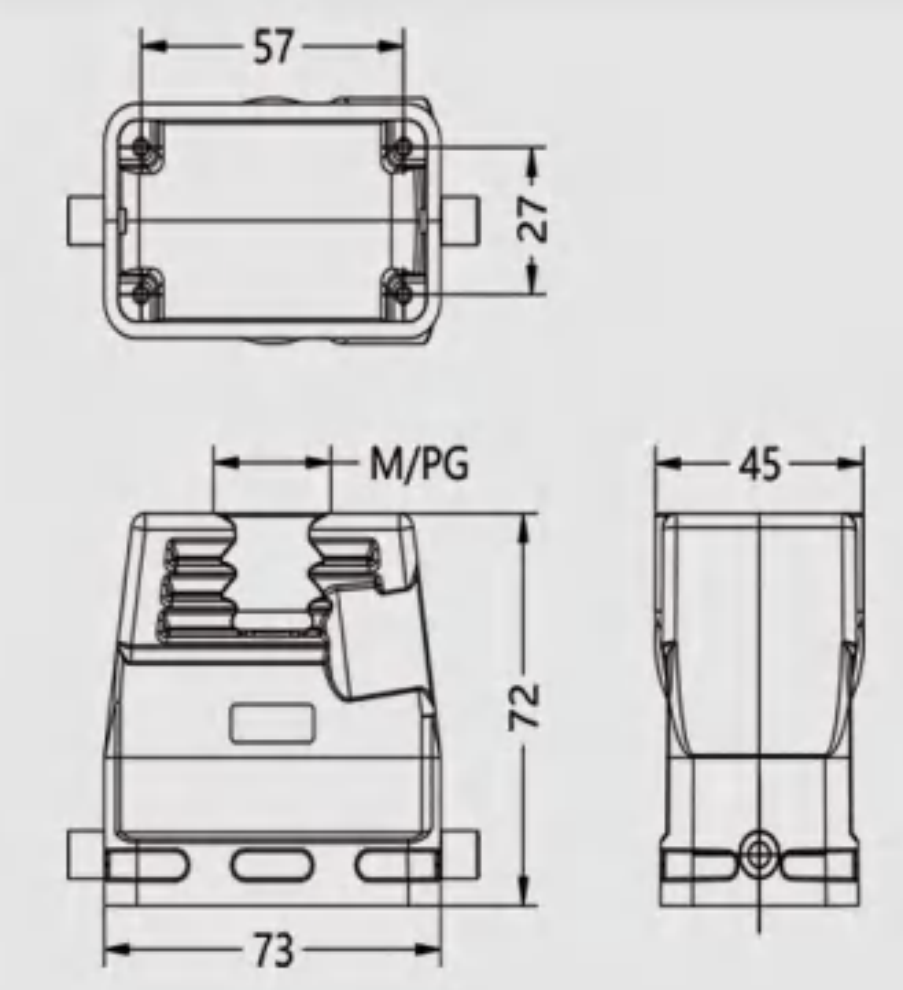
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction	M20	H6BPR-SOH-2T/H-M20	2 006 304 41 120		
	M25	H6BPR-SOH-2T/H-M25	2 006 304 41 125		
	M32	H6BPR-SOH-2T/H-M32	2 006 304 41 132		
	M40	H6BPR-SOH-2T/H-M40	2 006 304 41 140		
	PG16	H6BPR-SOH-2T/H-PG16	2 006 304 41 116		
	PG21	H6BPR-SOH-2T/H-PG21	2 006 304 41 121		
	PG29	H6BPR-SOH-2T/H-PG29	2 006 304 41 129		
Hoods, top entry, high construction	M20	H6BPR-TOH-2T/H-M20	2 006 303 41 120		
	M25	H6BPR-TOH-2T/H-M25	2 006 303 41 125		
	M32	H6BPR-TOH-2T/H-M32	2 006 303 41 132		
	M40	H6BPR-TOH-2T/H-M40	2 006 303 41 140		
	PG16	H6BPR-TOH-2T/H-PG16	2 006 303 41 116		
	PG21	H6BPR-TOH-2T/H-PG21	2 006 303 41 121		
	PG29	H6BPR-TOH-2T/H-PG29	2 006 303 41 129		
Housings, bulkhead mounting	H6BPR-HB-2T/H		2 006 306 41 000		
Protection covers	H6BPR-MCV-2T/H/N		2 006 032 741 080		

H6B

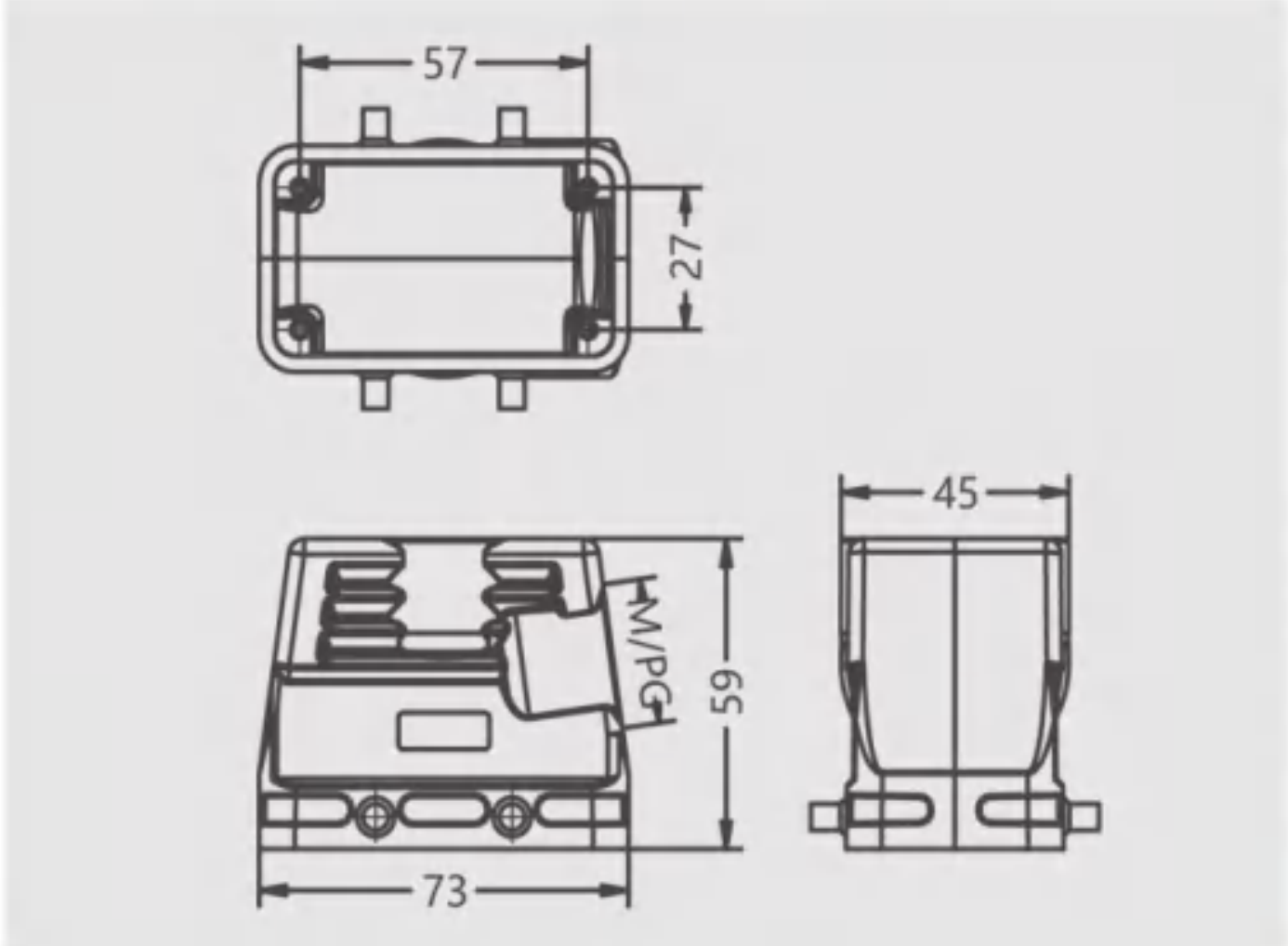
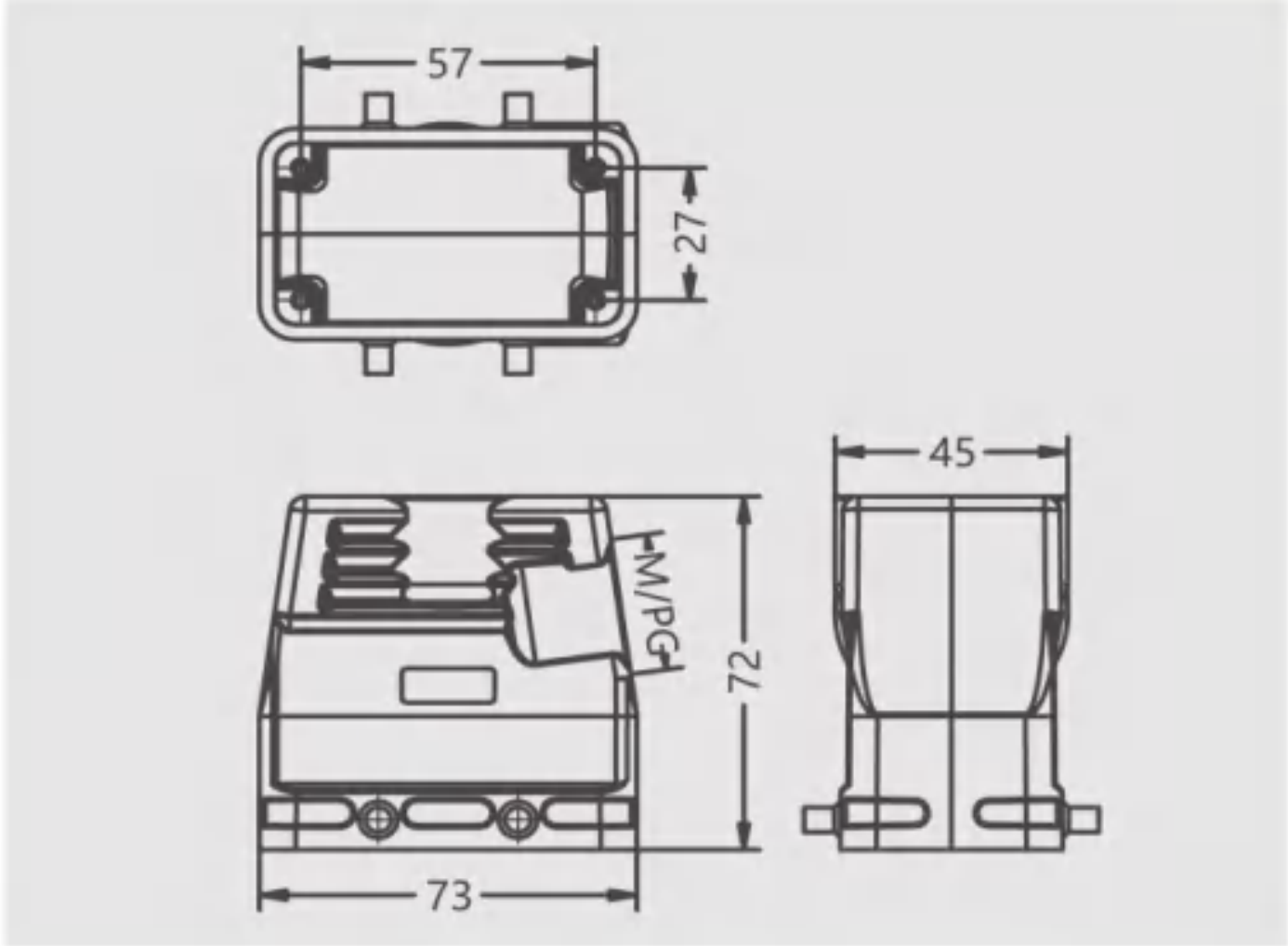
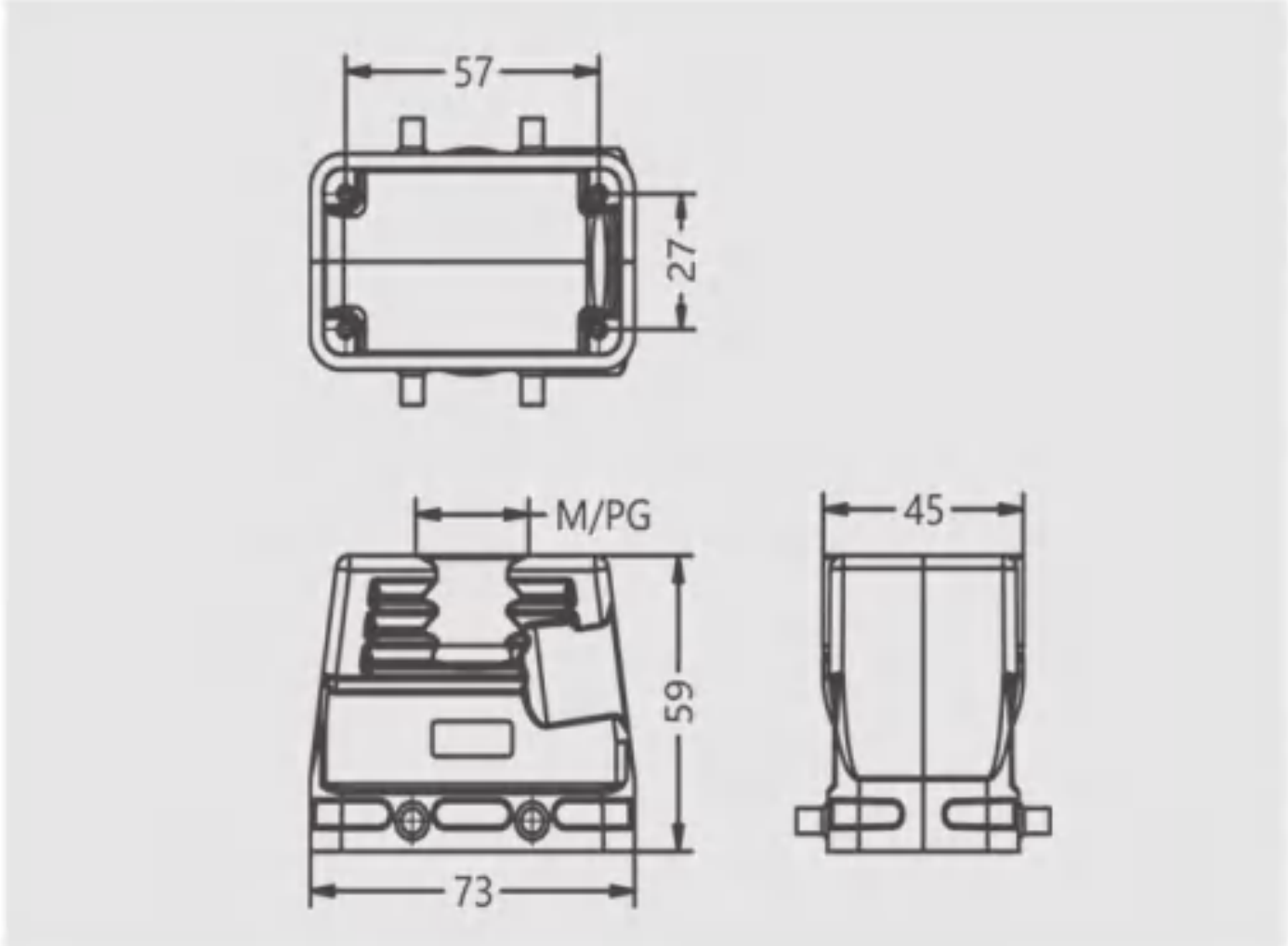
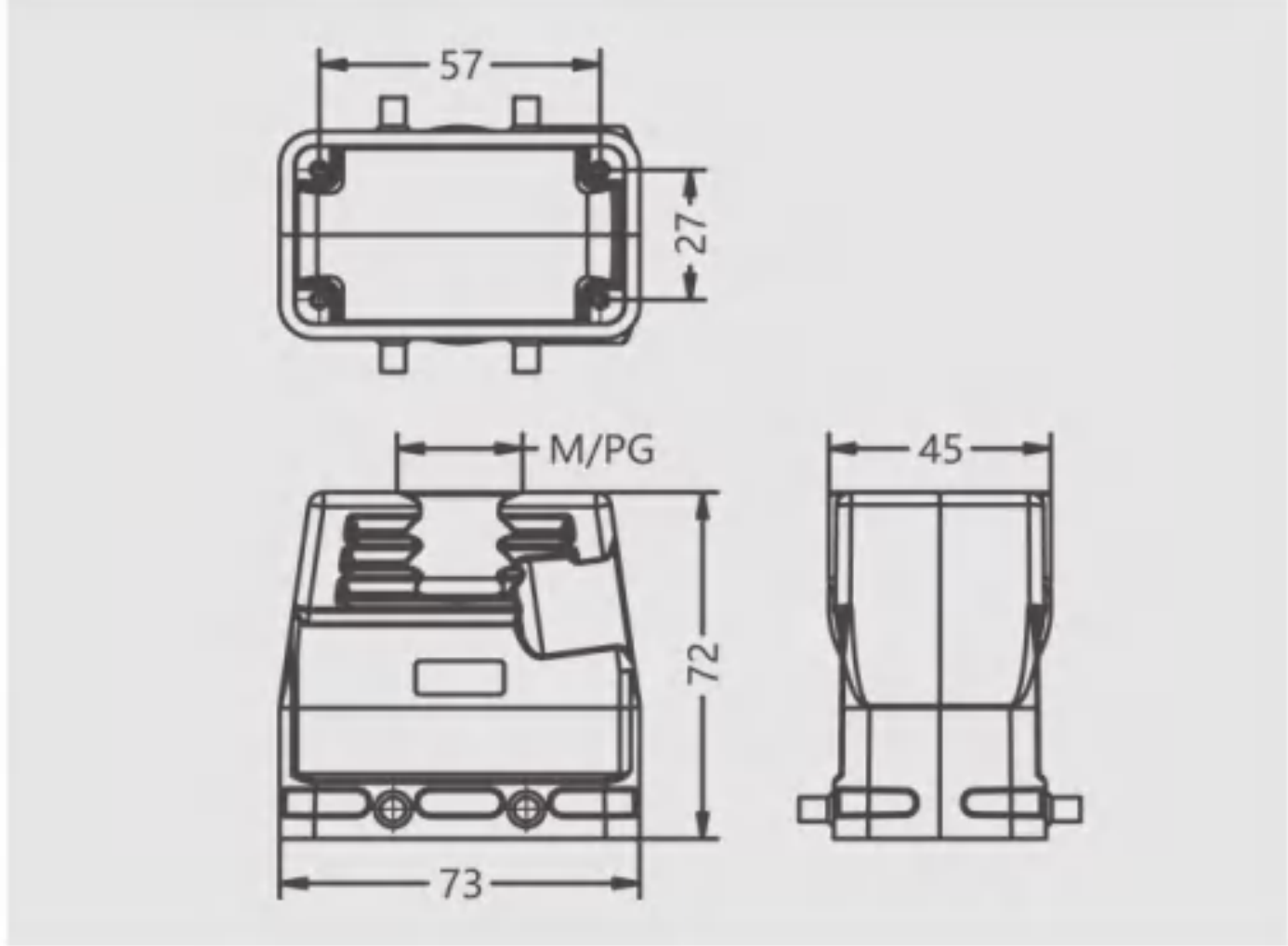
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry 	M20	H10B-SO/P-2B-M20	2 010 324 02 120		
	M25	H10B-SO/P-2B-M25	2 010 324 02 125		
	PG13.5	H10B-SO/P-2B-PG13.5	2 010 324 02 113		
	PG16	H10B-SO/P-2B-PG16	2 010 324 02 116		
H10B Hoods, side entry, high construction 	M20	H10B-SOH/P-2B-M20	2 010 331 02 120		
	M25	H10B-SOH/P-2B-M25	2 010 331 02 125		
	M32	H10B-SOH/P-2B-M32	2 010 331 02 132		
	M40	H10B-SOH/P-2B-M40	2 010 331 02 140		
	PG13.5	H10B-SOH/P-2B-PG13.5	2 010 331 02 113		
	PG16	H10B-SOH/P-2B-PG16	2 010 331 02 116		
	PG21	H10B-SOH/P-2B-PG21	2 010 331 02 121		
	PG29	H10B-SOH/P-2B-PG29	2 010 331 02 129		
Hoods, top entry 	M20	H10B-TO/P-2B-M20	2 010 323 02 120		
	M25	H10B-TO/P-2B-M25	2 010 323 02 125		
	PG13.5	H10B-TO/P-2B-PG13.5	2 010 323 02 113		
	PG16	H10B-TO/P-2B-PG16	2 010 323 02 116		
Hoods, top entry, high construction 	M20	H10B-TOH/P-2B-M20	2 010 334 02 120		
	M25	H10B-TOH/P-2B-M25	2 010 334 02 125		
	M32	H10B-TOH/P-2B-M32	2 010 334 02 132		
	M40	H10B-TOH/P-2B-M40	2 010 334 02 140		
	PG13.5	H10B-TOH/P-2B-PG13.5	2 010 334 02 113		
	PG16	H10B-TOH/P-2B-PG16	2 010 334 02 116		
	PG21	H10B-TOH/P-2B-PG21	2 010 334 02 121		
	PG29	H10B-TOH/P-2B-PG29	2 010 334 02 129		

Degree of protection: IP65

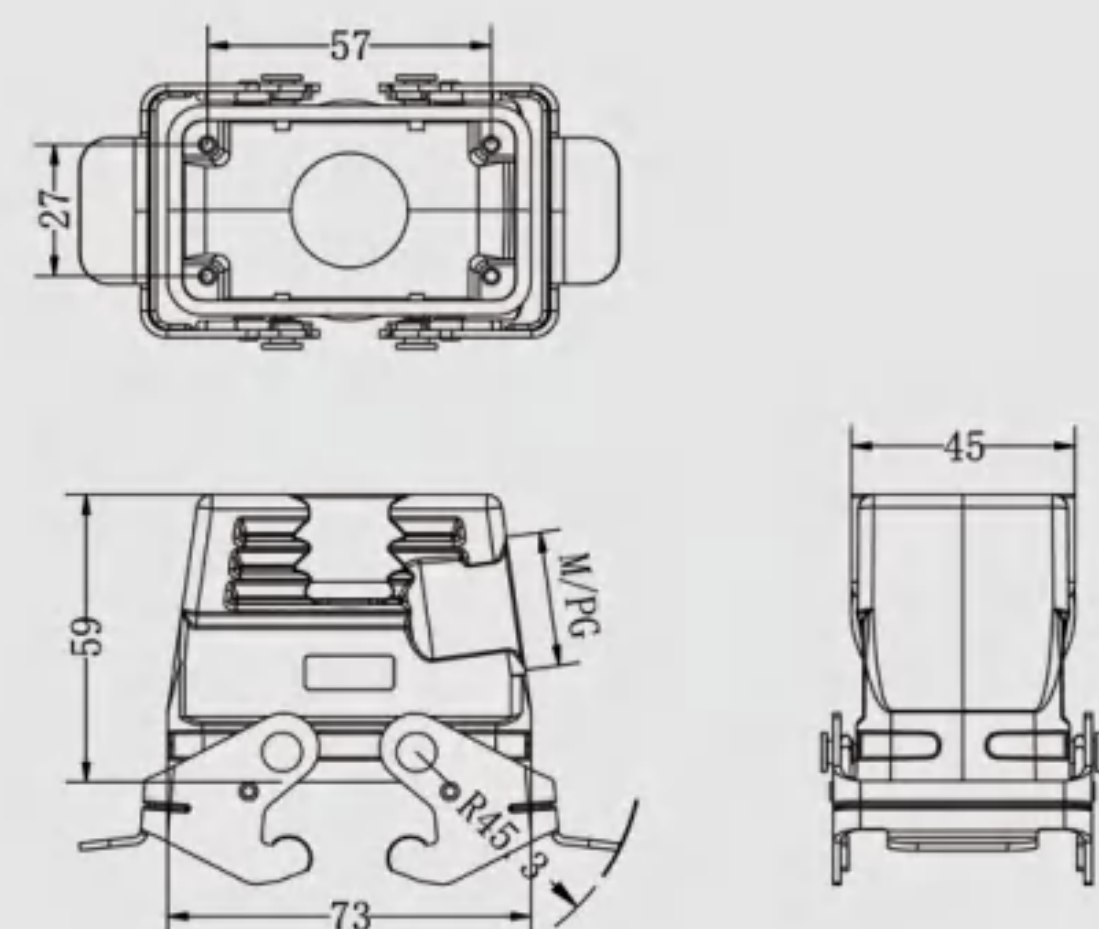
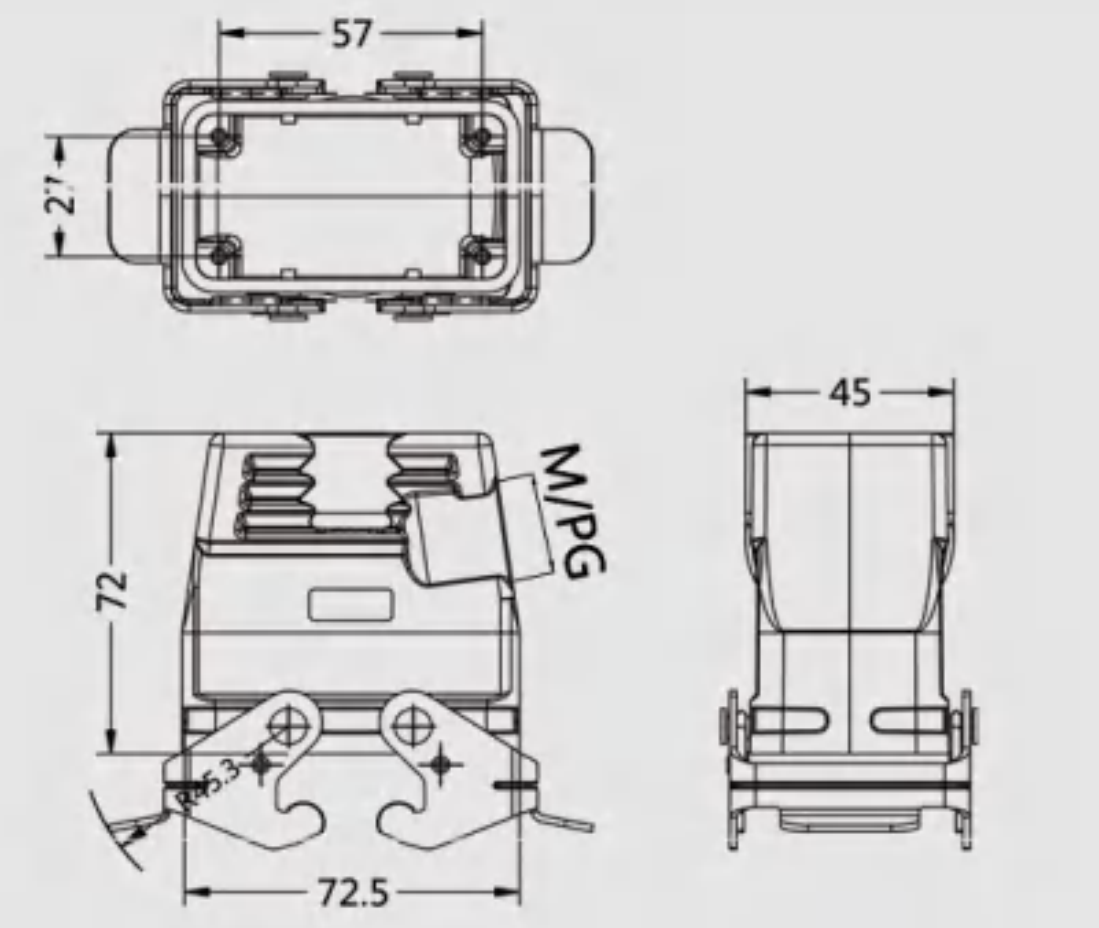
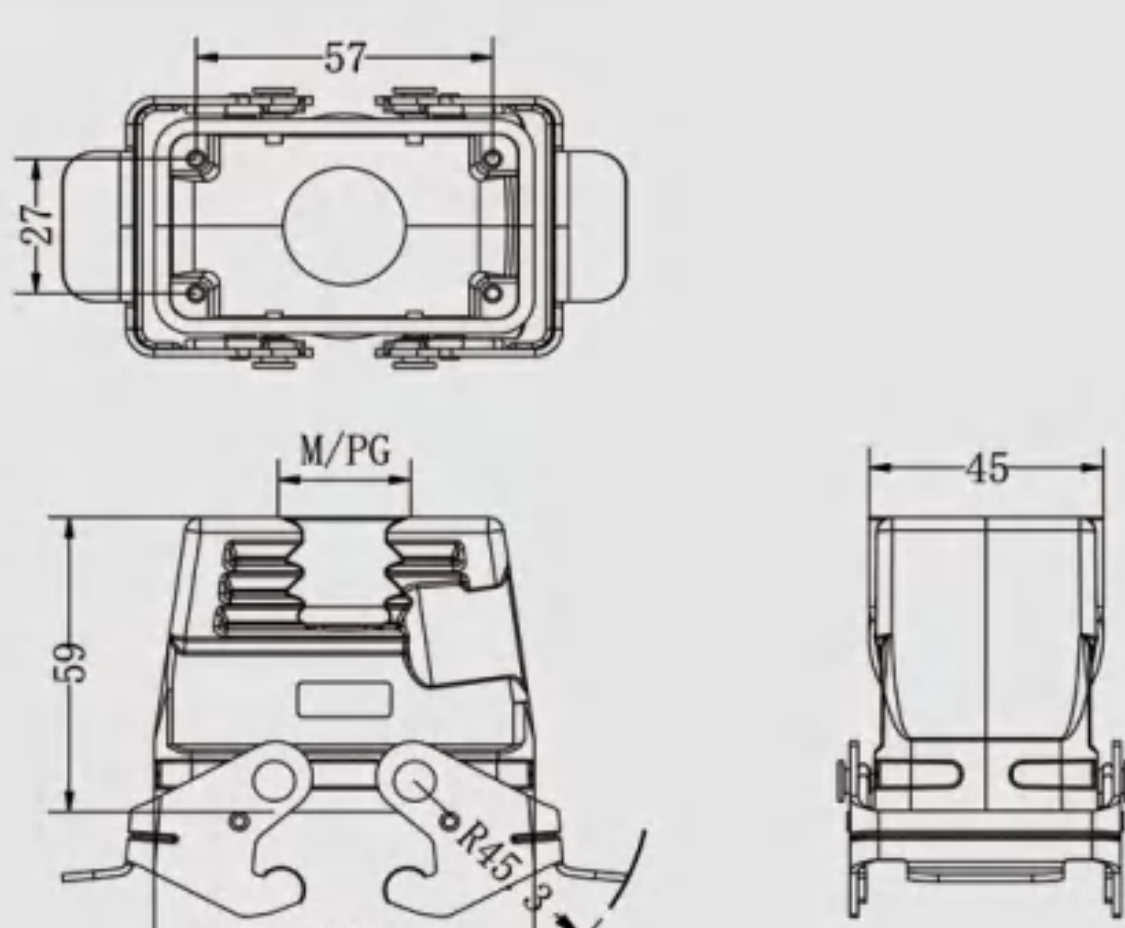
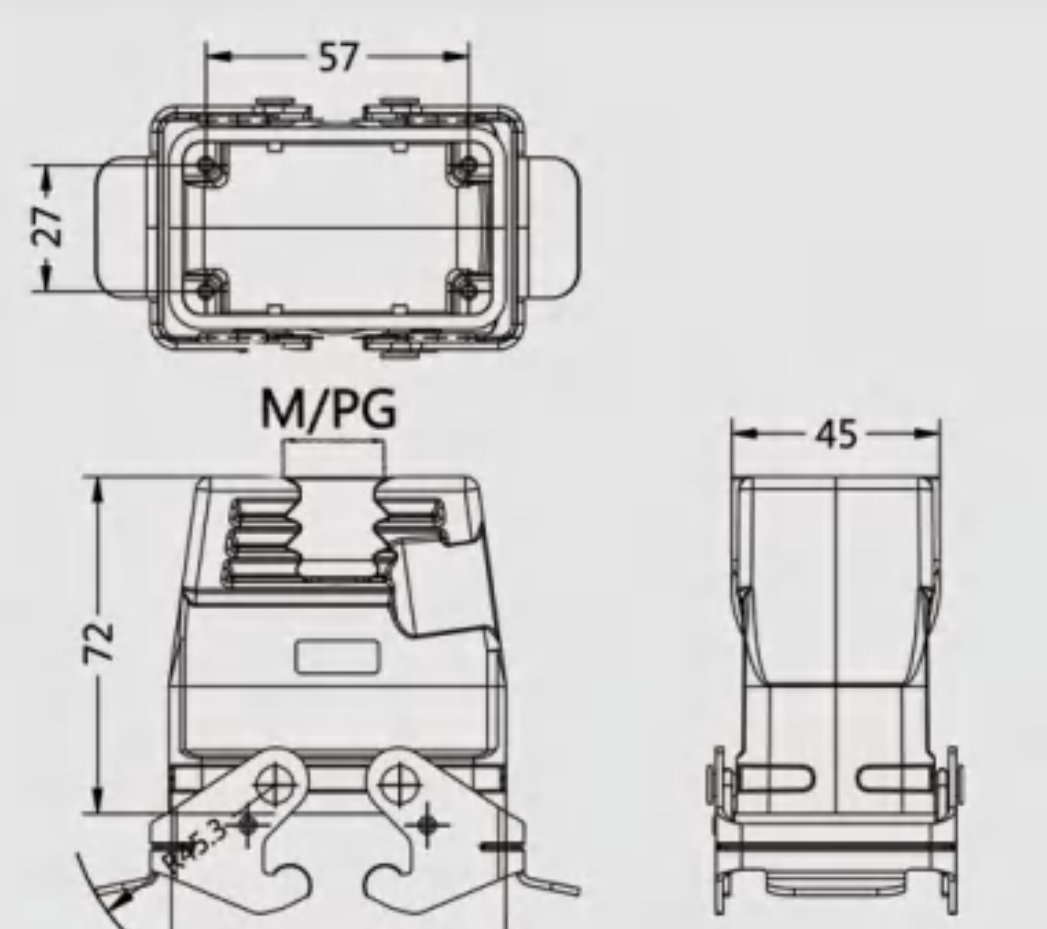
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry	M20	H10B-SO/P-4B-M20	2 010 324 04 120		
	M25	H10B-SO/P-4B-M25	2 010 324 04 125		
	M32	H10B-SO/P-4B-M32	2 010 324 04 132		
	PG16	H10B-SO/P-4B-PG16	2 010 324 04 116		
	PG21	H10B-SO/P-4B-PG21	2 010 324 04 121		
Hoods, side entry, high construction	M20	H10B-SOH/P-4B-M20	2 010 334 04 120		
	M25	H10B-SOH/P-4B-M25	2 010 334 04 125		
	M32	H10B-SOH/P-4B-M32	2 010 334 04 132		
	M40	H10B-SOH/P-4B-M40	2 010 334 04 140		
	PG16	H10B-SOH/P-4B-PG16	2 010 334 04 116		
	PG21	H10B-SOH/P-4B-PG21	2 010 334 04 121		
	PG29	H10B-SOH/P-4B-PG29	2 010 334 04 129		
Hoods, top entry	M20	H10B-TO/P-4B-M20	2 010 323 04 120		
	M25	H10B-TO/P-4B-M25	2 010 323 04 125		
	M32	H10B-TO/P-4B-M32	2 010 323 04 132		
	PG16	H10B-TO/P-4B-PG16	2 010 323 04 116		
	PG21	H10B-TO/P-4B-PG21	2 010 323 04 121		
Hoods, top entry, high construction	M20	H10B-TOH/P-4B-M20	2 010 335 04 120		
	M25	H10B-TOH/P-4B-M25	2 010 335 04 125		
	M32	H10B-TOH/P-4B-M32	2 010 335 04 132		
	M40	H10B-TOH/P-4B-M40	2 010 335 04 140		
	PG16	H10B-TOH/P-4B-PG16	2 010 335 04 116		
	PG21	H10B-TOH/P-4B-PG21	2 010 335 04 121		
	PG29	H10B-TOH/P-4B-PG29	2 010 335 04 129		

H10B

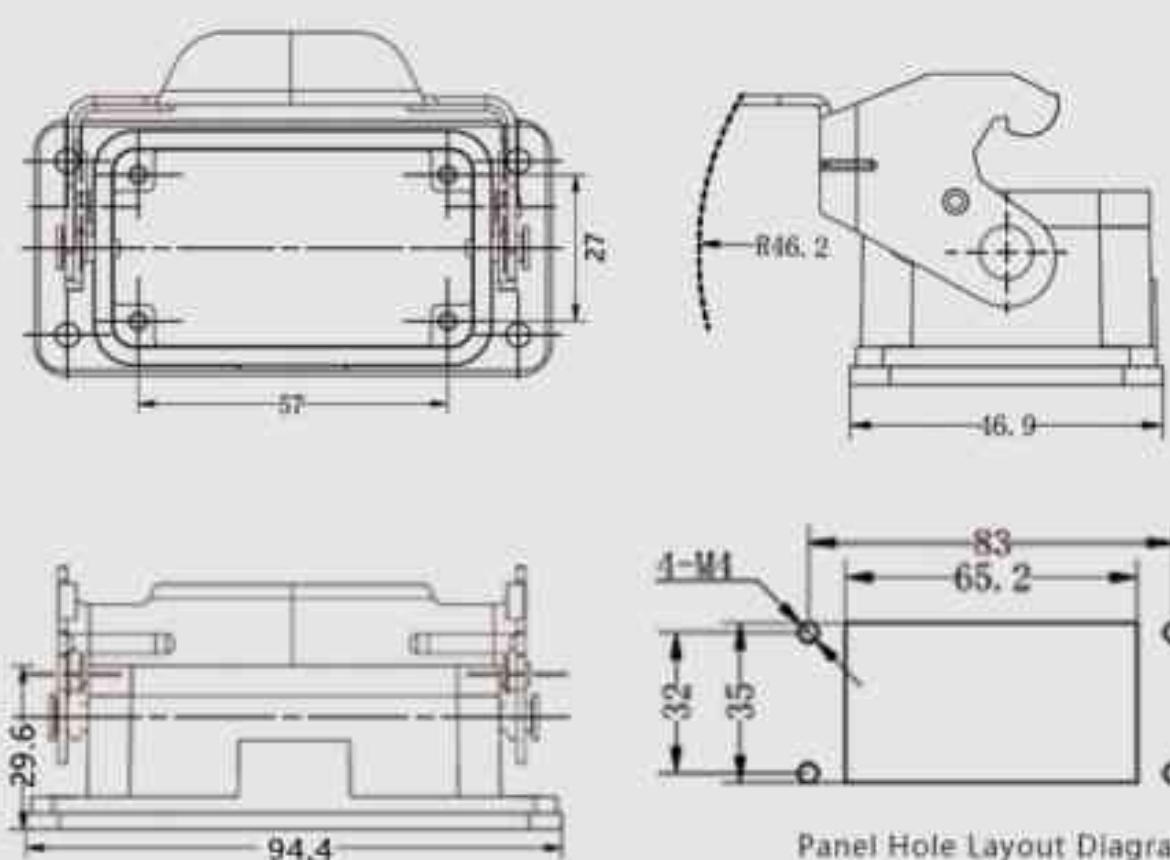
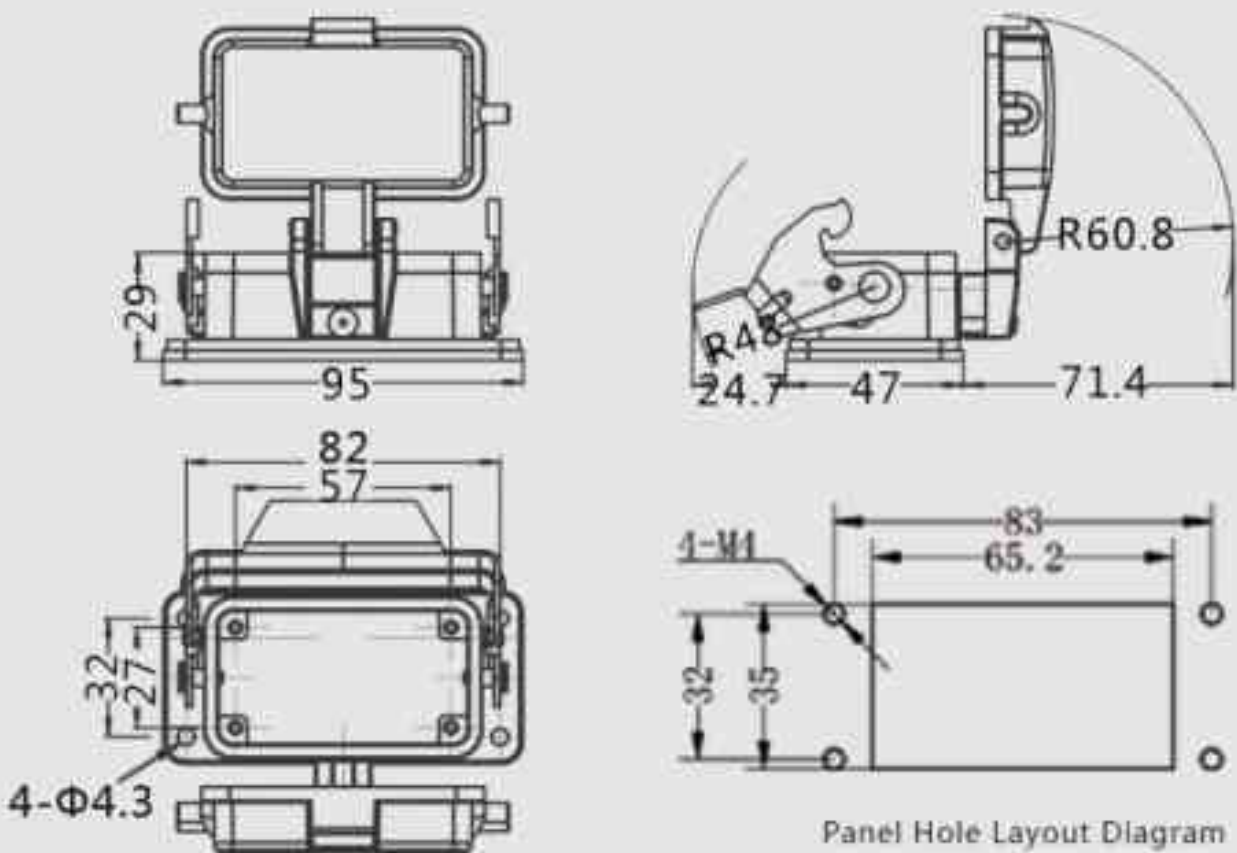
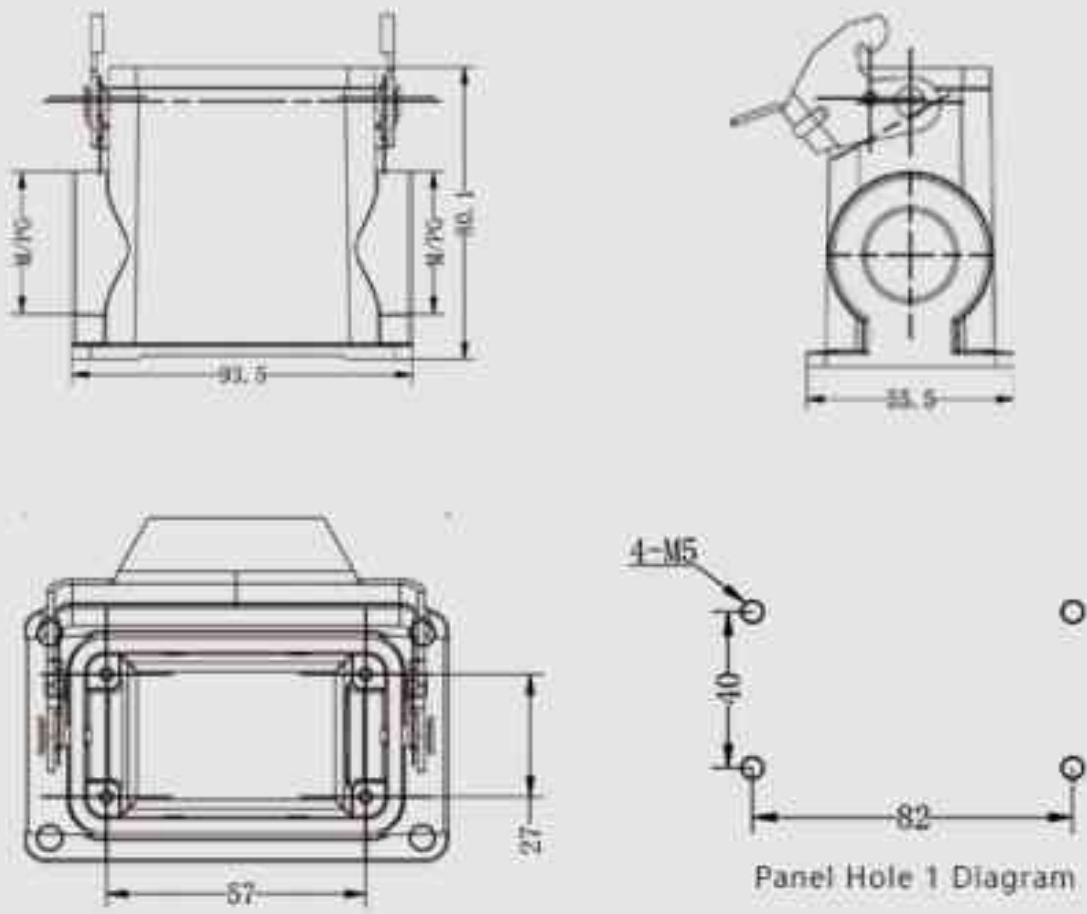
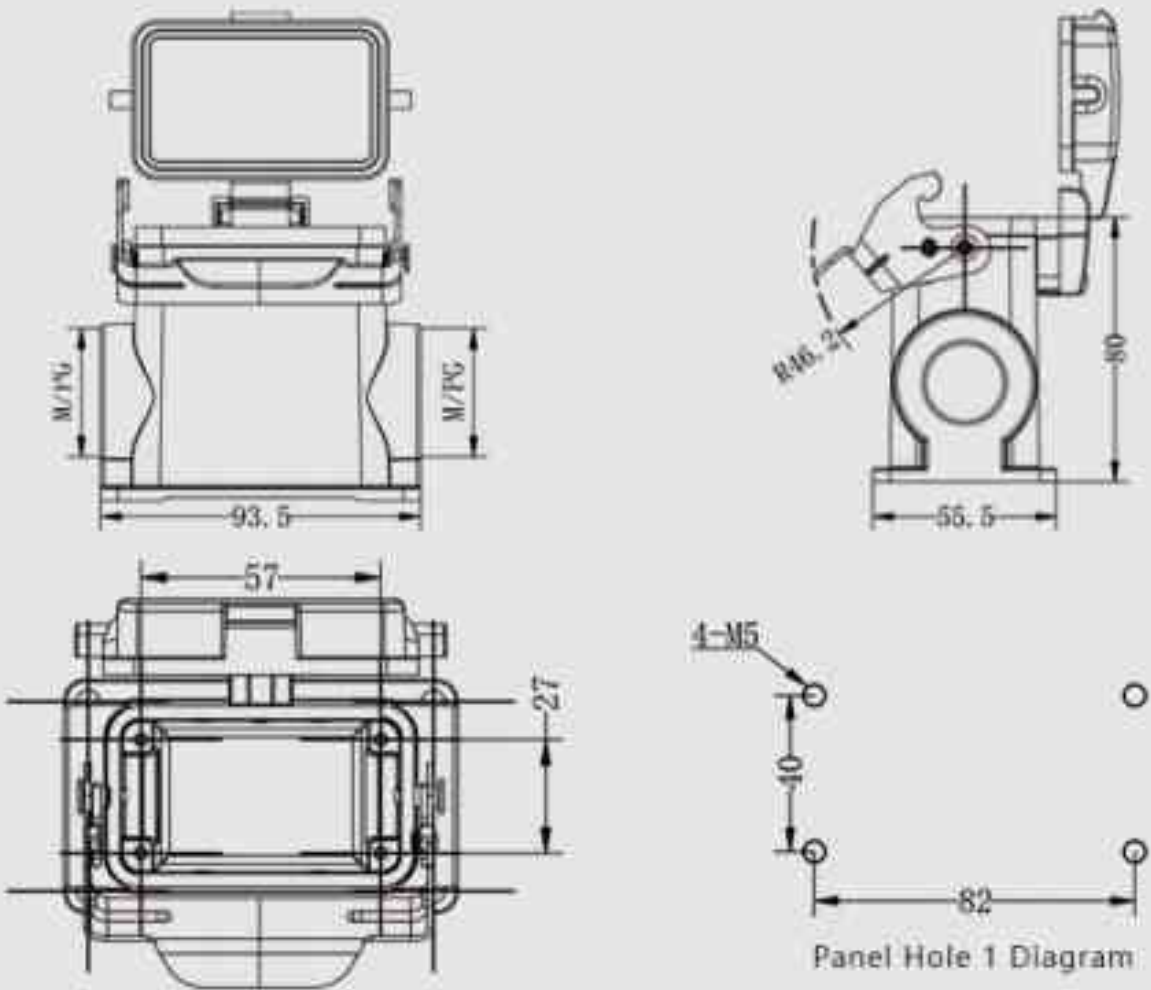
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry 	M20	H10B-SO-2L-M20	2 010 302 20 120		
	M25	H10B-SO-2L-M25	2 010 302 20 125		
	PG13.5	H10B-SO-2L-PG13.5	2 010 302 20 113		
	PG16	H10B-SO-2L-PG16	2 010 302 20 116		
H10B Hoods, side entry, high construction 	M20	H10B-SOH/P-2L-M20	2 010 334 20 120		
	M25	H10B-SOH/P-2L-M25	2 010 334 20 125		
	M32	H10B-SOH/P-2L-M32	2 010 334 20 132		
	PG13.5	H10B-SOH/P-2L-PG13.5	2 010 334 20 113		
	PG16	H10B-SOH/P-2L-PG16	2 010 334 20 116		
	PG21	H10B-SOH/P-2L-PG21	2 010 334 20 121		
	PG29	H10B-SOH/P-2L-PG29	2 010 334 20 129		
Hoods, top entry 	M20	H10B-TO/P-2L-M20	2 010 323 20 120		
	M25	H10B-TO/P-2L-M25	2 010 323 20 125		
	PG13.5	H10B-TO/P-2L-PG13.5	2 010 323 20 113		
	PG16	H10B-TO/P-2L-PG16	2 010 323 20 116		
Hoods, top entry, high construction 	M20	H10B-TOH/P-2L-M20	2 010 335 20 120		
	M25	H10B-TOH/P-2L-M25	2 010 335 20 125		
	M32	H10B-TOH/P-2L-M32	2 010 335 20 132		
	PG13.5	H10B-TOH/P-2L-PG13.5	2 010 335 20 113		
	PG16	H10B-TOH/P-2L-PG16	2 010 335 20 116		
	PG21	H10B-TOH/P-2L-PG21	2 010 335 20 121		
	PG29	H10B-TOH/P-2L-PG29	2 010 335 20 129		

Degree of protection: IP65

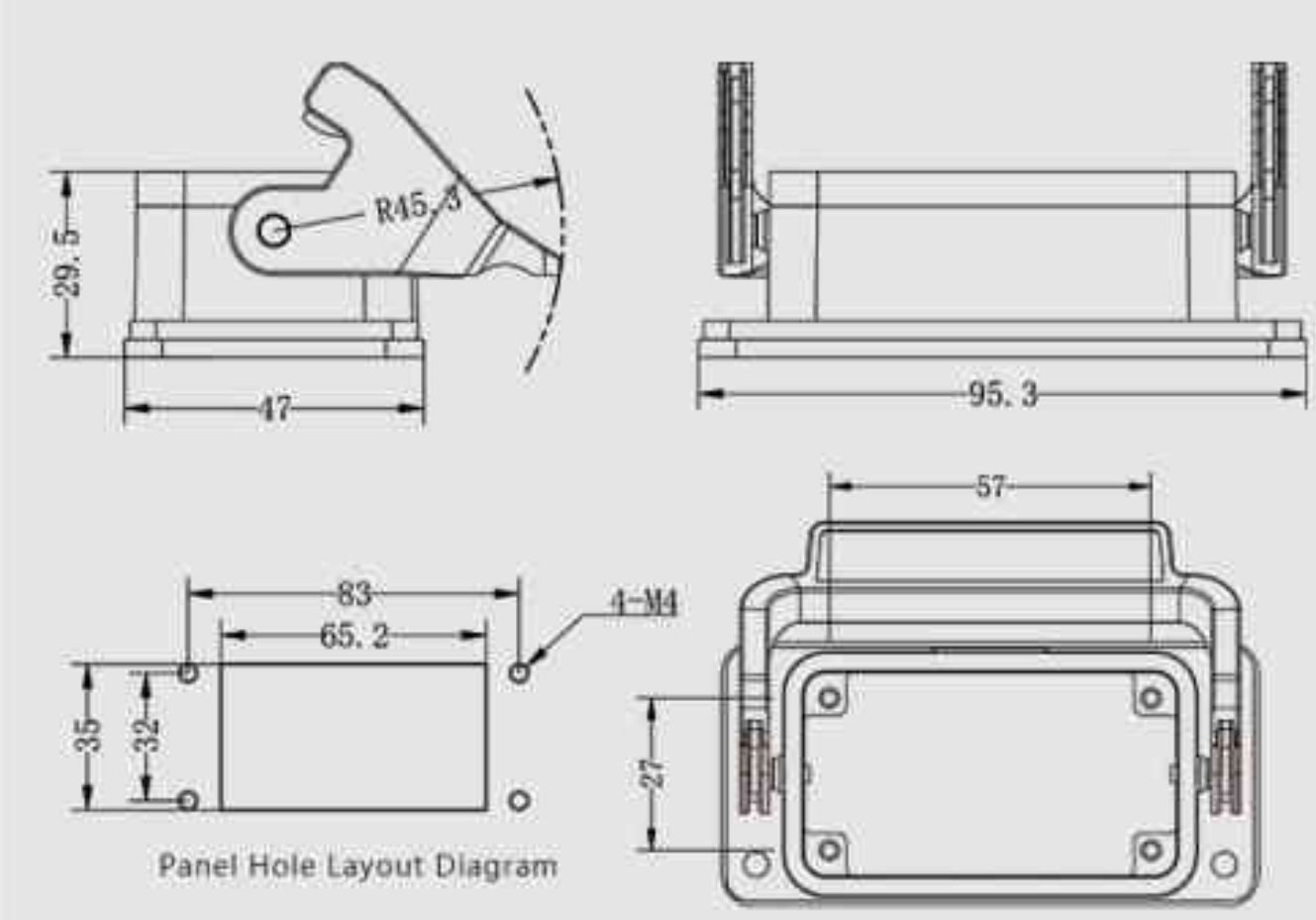
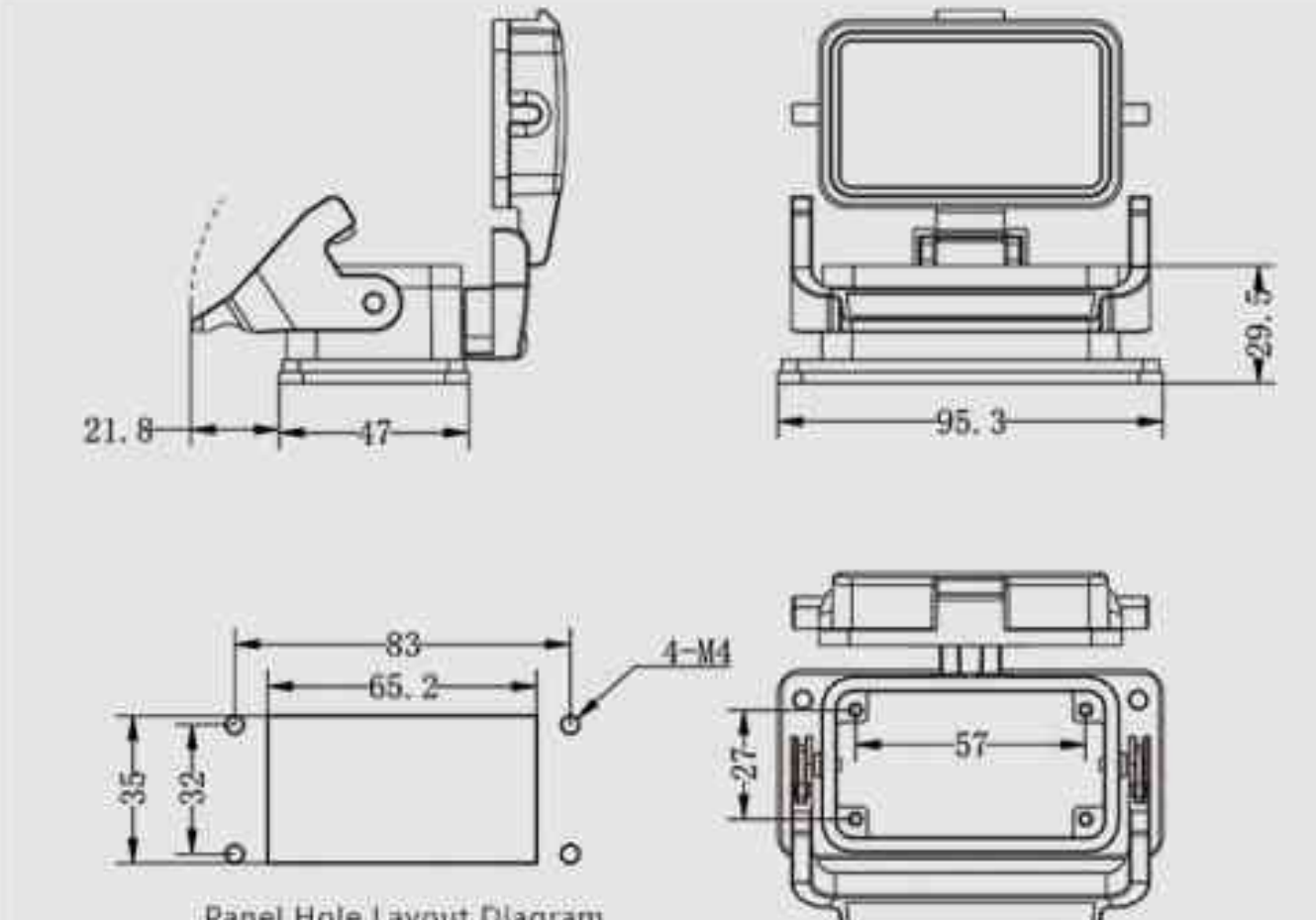
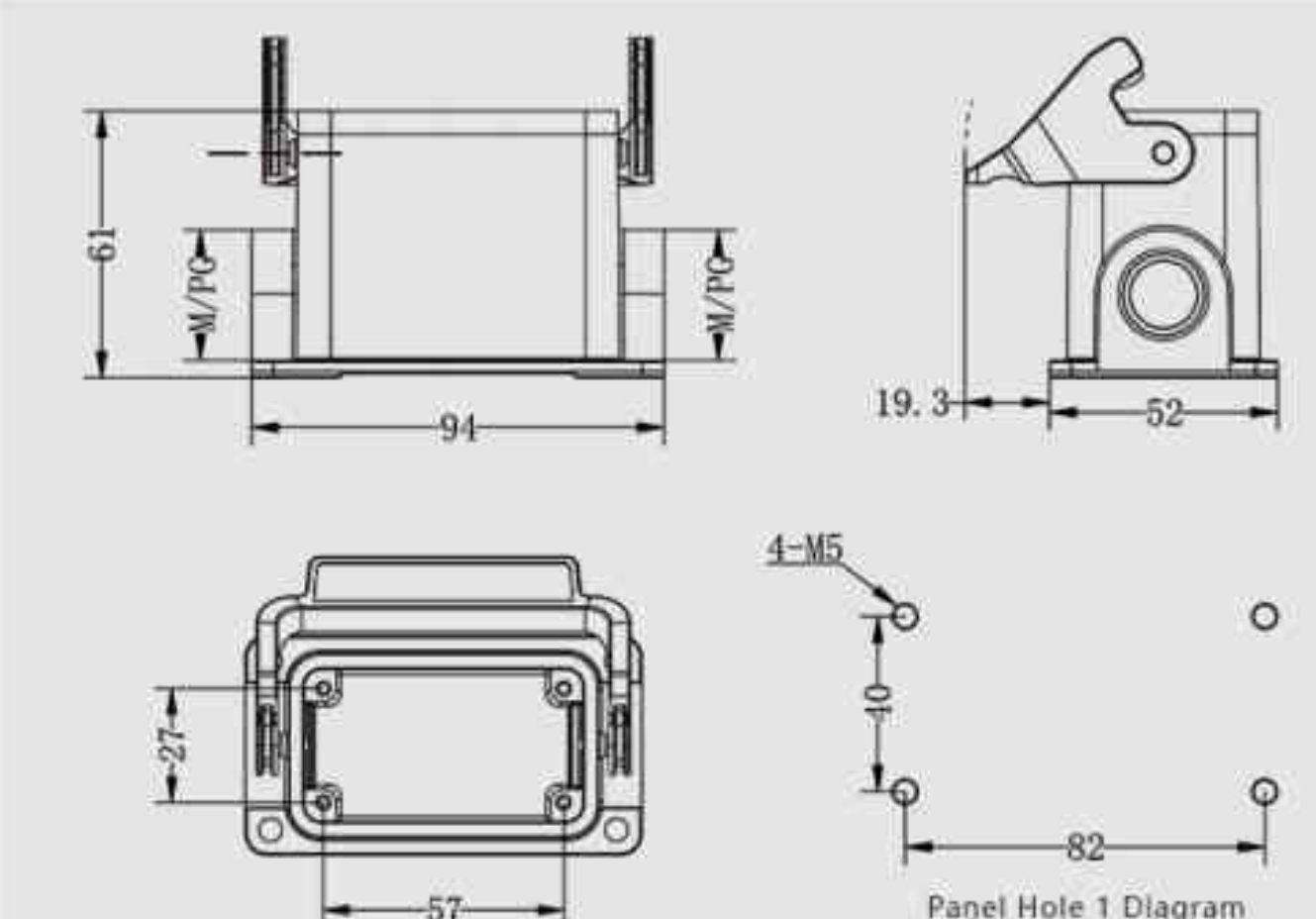
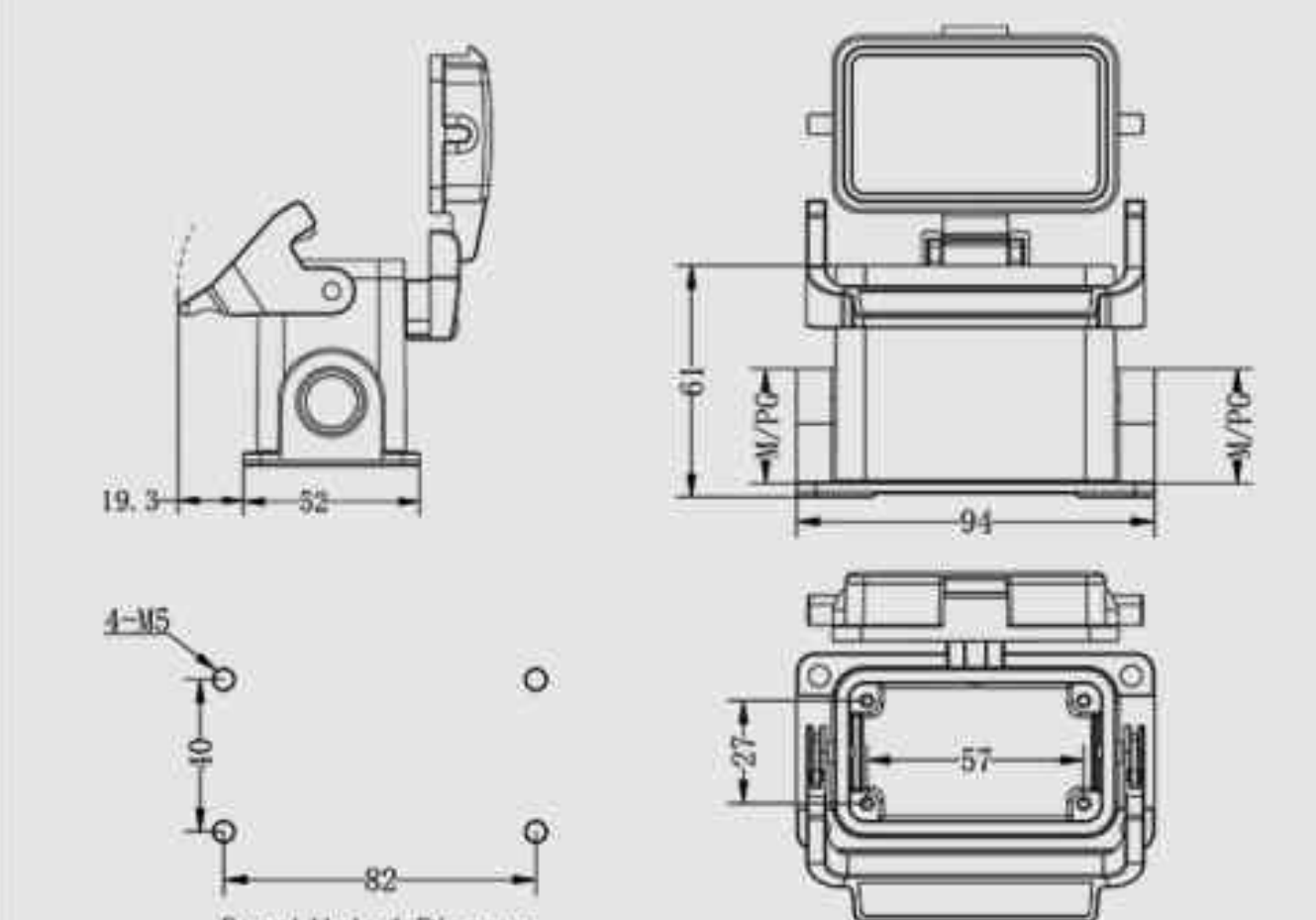
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H10B-HB-1L	2 010 306 10 000		
Housings, bulkhead mounting		H10B-HB-1L-CV	2 010 306 14 000		
Housings, surface mounting	M20	H10B-SM-1L-M20	2 010 307 10 120		
	M25	H10B-SM-1L-M25	2 010 307 10 125		
	PG13.5	H10B-SM-1L-PG13.5	2 010 307 10 113		
	PG16	H10B-SM-1L-PG16	2 010 307 10 116		
Housings, surface mounting	M20	H10B-SM-1L-CV-M20	2 010 307 14 120		
	M25	H10B-SM-1L-CV-M25	2 010 307 14 125		
	PG13.5	H10B-SM-1L-CV-PG13.5	2 010 307 14 113		
	PG16	H10B-SM-1L-CV-PG16	2 010 307 14 116		

H10B

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H10B-HB-1L/P	2 010 306 11 000		
					
Housings, bulkhead mounting		H10B-HB-1L/P-CV	2 010 306 15 000		
					
Housings, surface mounting	M20	H10B-SM-1L/P-M20	2 010 307 11 120		
	M25	H10B-SM-1L/P-M25	2 010 307 11 125		
	PG16	H10B-SM-1L/P-PG16	2 010 307 11 116		
	2M20	H10B-SM-1L/P-2M20	2 010 307 11 220		
	2M25	H10B-SM-1L/P-2M25	2 010 307 11 225		
	2PG16	H10B-SM-1L/P-2PG16	2 010 307 11 216		
Housings, surface mounting	M20	H10B-SM-1L/P-CV-M20	2 010 307 15 120		
	M25	H10B-SM-1L/P-CV-M25	2 010 307 15 125		
	PG16	H10B-SM-1L/P-CV-PG16	2 010 307 15 116		
	2M20	H10B-SM-1L/P-CV-2M20	2 010 307 15 220		
	2M25	H10B-SM-1L/P-CV-2M25	2 010 307 15 225		
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Degree of protection: IP65

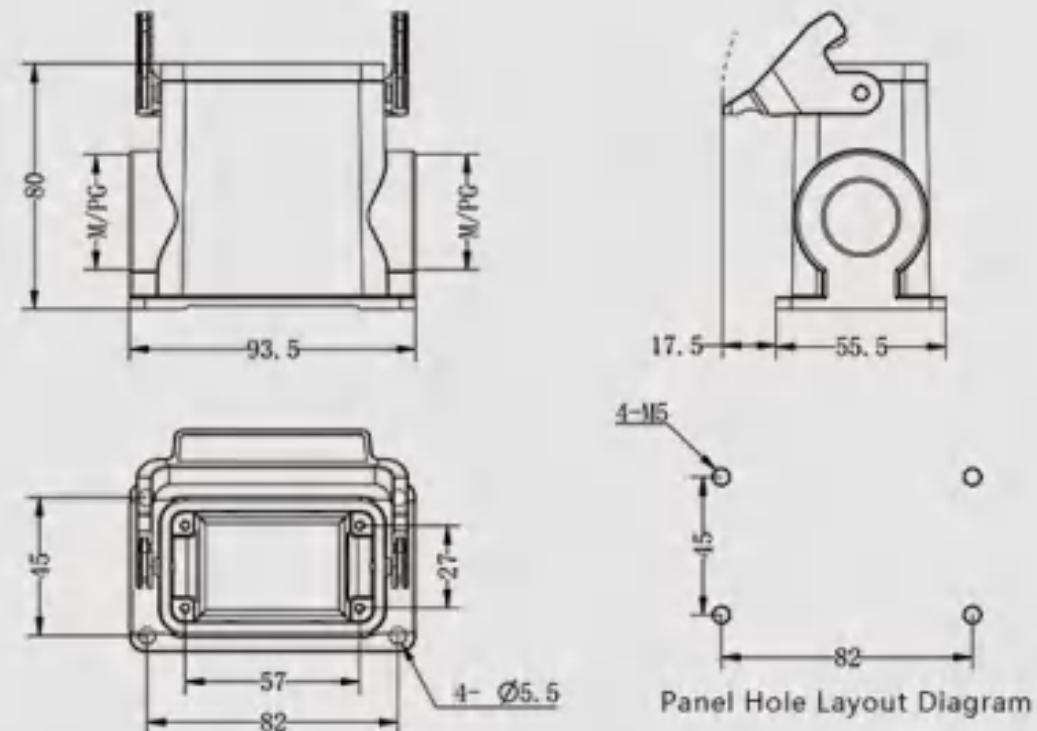
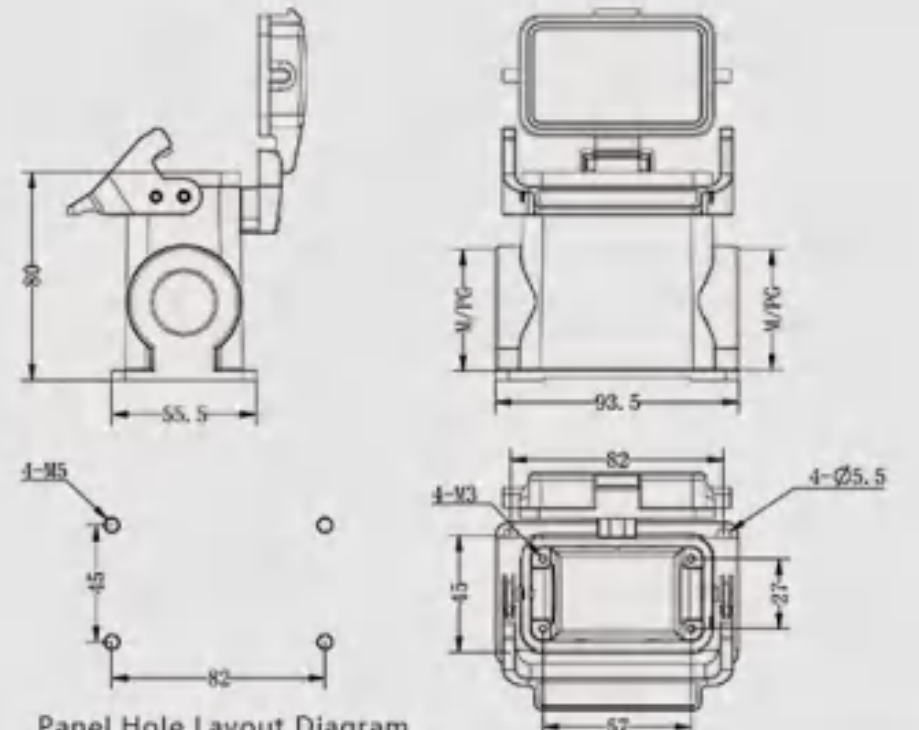
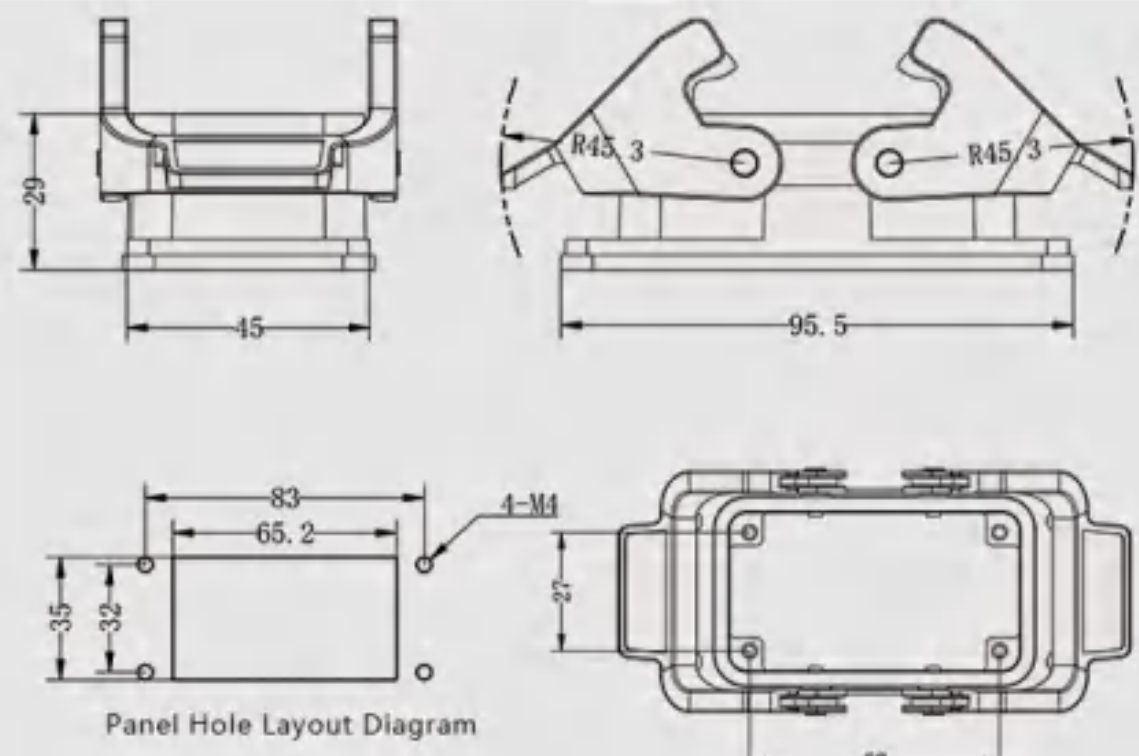
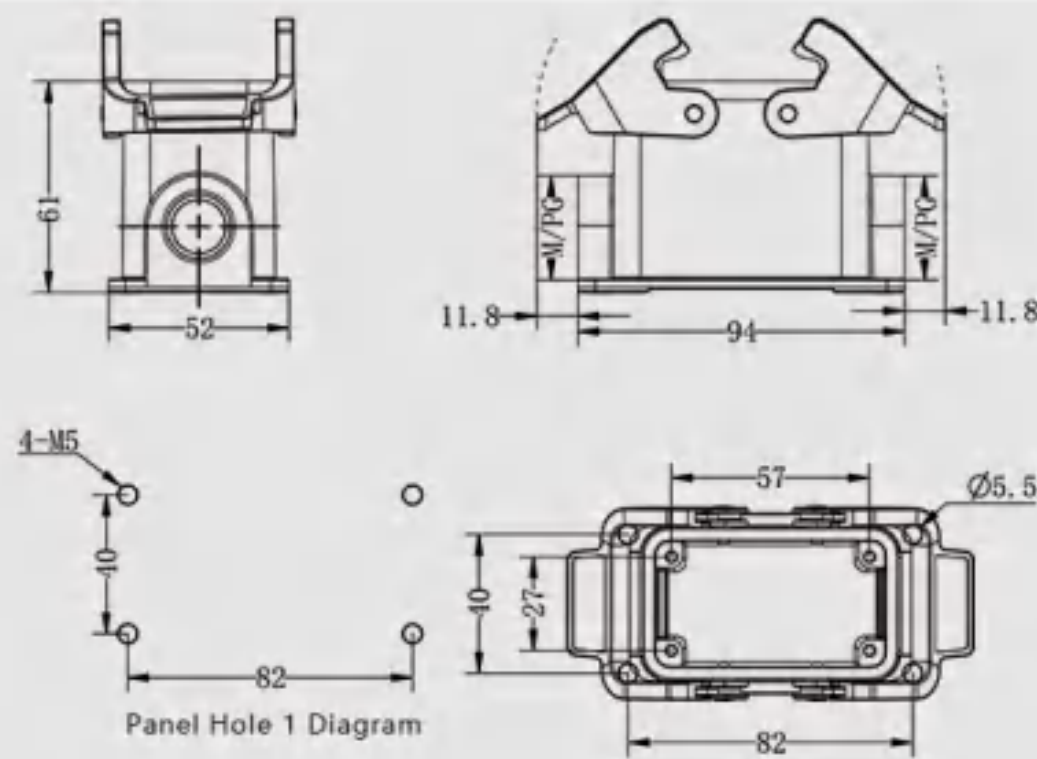
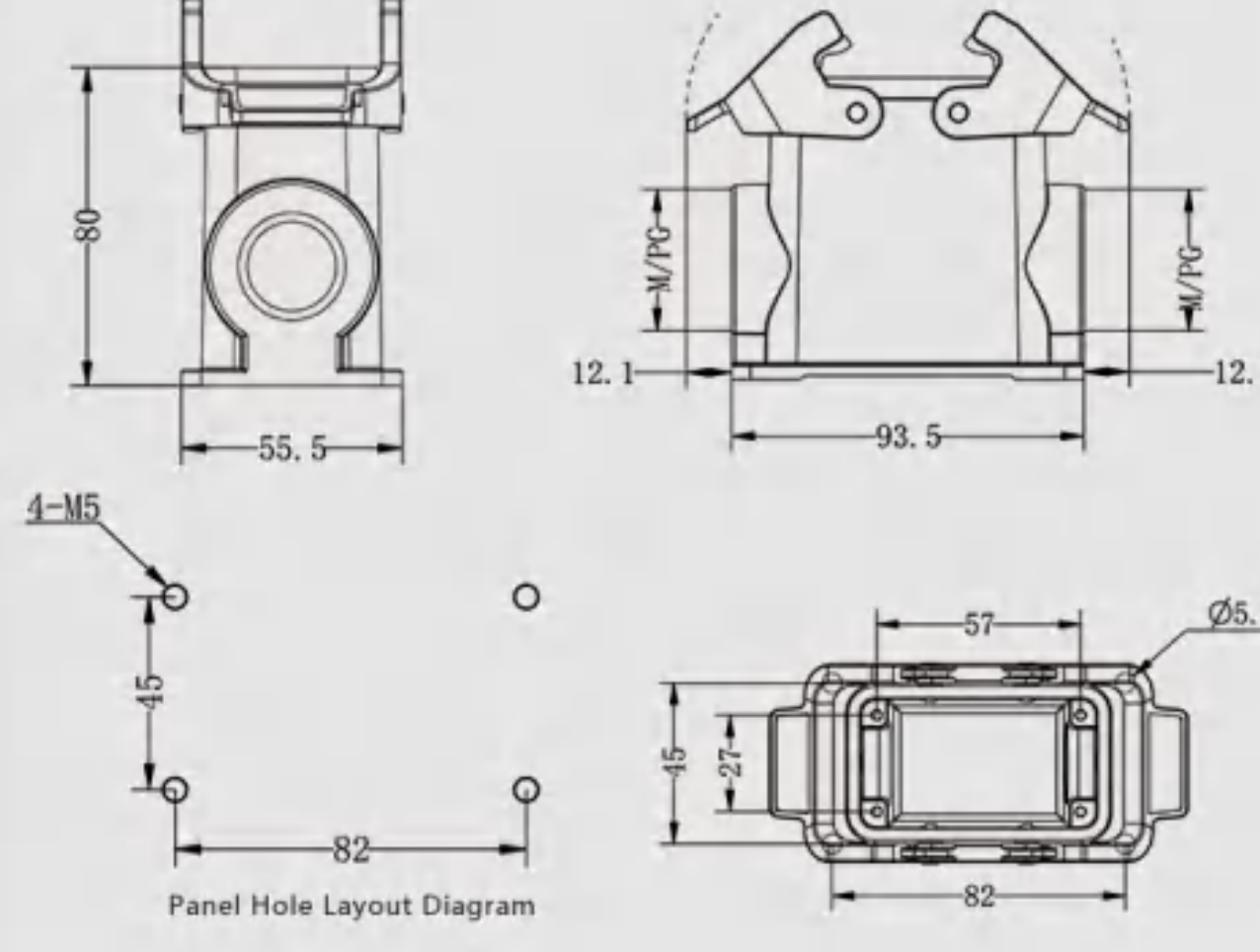
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting	M20	H10B-SMH-1L-M20	2 010 308 10 120		
	M25	H10B-SMH-1L-M25	2 010 308 10 125		
	M32	H10B-SMH-1L-M32	2 010 308 10 132		
	PG16	H10B-SMH-1L-PG16	2 010 308 10 116		
	PG21	H10B-SMH-1L-PG21	2 010 308 10 121		
	PG29	H10B-SMH-1L-PG29	2 010 308 10 129		
Housings, surface mounting	M20	H10B-SMH-1L-CV-M20	2 010 308 14 120		
	M25	H10B-SMH-1L-CV-M25	2 010 308 14 125		
	PG16	H10B-SMH-1L-CV-PG16	2 010 308 14 116		
	PG21	H10B-SMH-1L-CV-PG21	2 010 308 14 121		
Housings, bulkhead mounting	H10B-HB-2L		2 010 306 20 000		
Housings, surface mounting	M20	H10B-SM-2L-M20	2 010 307 20 120		
	M25	H10B-SM-2L-M25	2 010 307 20 125		
	PG16	H10B-SM-2L-PG16	2 010 307 20 116		
	PG21	H10B-SM-2L-PG21	2 010 307 20 121		
	2M20	H10B-SM-2L-2M20	2 010 307 20 220		
	2M25	H10B-SM-2L-2M25	2 010 307 20 225		
	2PG16	H10B-SM-2L-2PG16	2 010 307 20 216		
Housings, surface mounting	M20	H10B-SMH-2L-M20	2 010 308 20 120		
	M25	H10B-SMH-2L-M25	2 010 308 20 125		
	M32	H10B-SMH-2L-M32	2 010 308 20 132		
	PG21	H10B-SMH-2L-PG21	2 010 308 20 121		
	PG29	H10B-SMH-2L-PG29	2 010 308 20 129		
	2M25	H10B-SMH-2L-2M25	2 010 308 20 225		
	2M32	H10B-SMH-2L-2M32	2 010 308 20 232		
	2PG21	H10B-SMH-2L-2PG21	2 010 308 20 221		
	2PG29	H10B-SMH-2L-2PG29	2 010 308 20 229		

H10B

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting 	M20	H10B-SMH-1L/P-M20	2 010 308 11 120		
	PG16	H10B-SMH-1L/P-PG16	2 010 308 11 116		
	2M20	H10B-SMH-1L/P-2M20	2 010 308 11 220		
	2PG16	H10B-SMH-1L/P-2PG16	2 010 308 11 216		
Housings, surface mounting 	M20	H10B-SMH-1L/P-CV-M20	2 010 308 15 120		
	PG16	H10B-SMH-1L/P-CV-PG16	2 010 308 15 116		
	2M20	H10B-SMH-1L/P-CV-2M20	2 010 308 15 220		
	2PG16	H10B-SMH-1L/P-CV-2PG16	2 010 308 15 216		
Housings, bulkhead mounting 	H10B-HB-2L/P		2 010 306 21 000		
Housings, surface mounting 	M20	H10B-SM-2L/P-M20	2 010 307 21 120		
Housings, surface mounting 	M25	H10B-SM-2L/P-M25	2 010 307 21 125		
	PG21	H10B-SM-2L/P-PG21	2 010 307 21 121		
	2M20	H10B-SM-2L/P-2M20	2 010 307 21 220		
	2M25	H10B-SM-2L/P-2M25	2 010 307 21 225		
	2PG16	H10B-SM-2L/P-2PG16	2 010 307 21 216		
Housings, surface mounting 	M20	H10B-SMH-2L/P-M20	2 010 308 21 120		
	M25	H10B-SMH-2L/P-M25	2 010 308 21 125		
	M32	H10B-SMH-2L/P-M32	2 010 308 21 132		
	PG16	H10B-SMH-2L/P-PG16	2 010 308 21 116		
	PG21	H10B-SMH-2L/P-PG21	2 010 308 21 121		
	PG29	H10B-SMH-2L/P-PG29	2 010 308 21 129		
	2M20	H10B-SMH-2L/P-2M20	2 010 308 21 220		
	2M25	H10B-SMH-2L/P-2M25	2 010 308 21 225		
	2M32	H10B-SMH-2L/P-2M32	2 010 308 21 232		
	2PG16	H10B-SMH-2L/P-2PG16	2 010 308 21 216		
	2PG21	H10B-SMH-2L/P-2PG21	2 010 308 21 221		
	2PG29	H10B-SMH-2L/P-2PG29	2 010 308 21 229		

Degree of protection: IP65

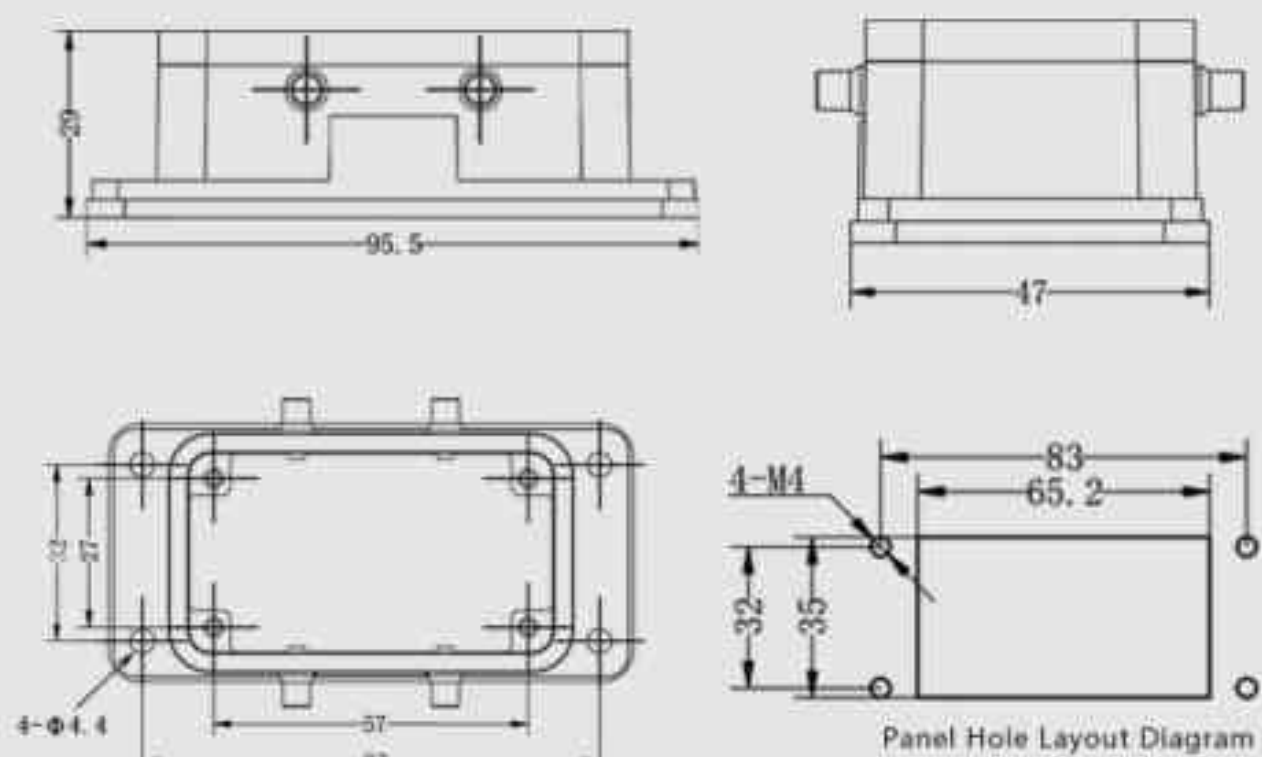
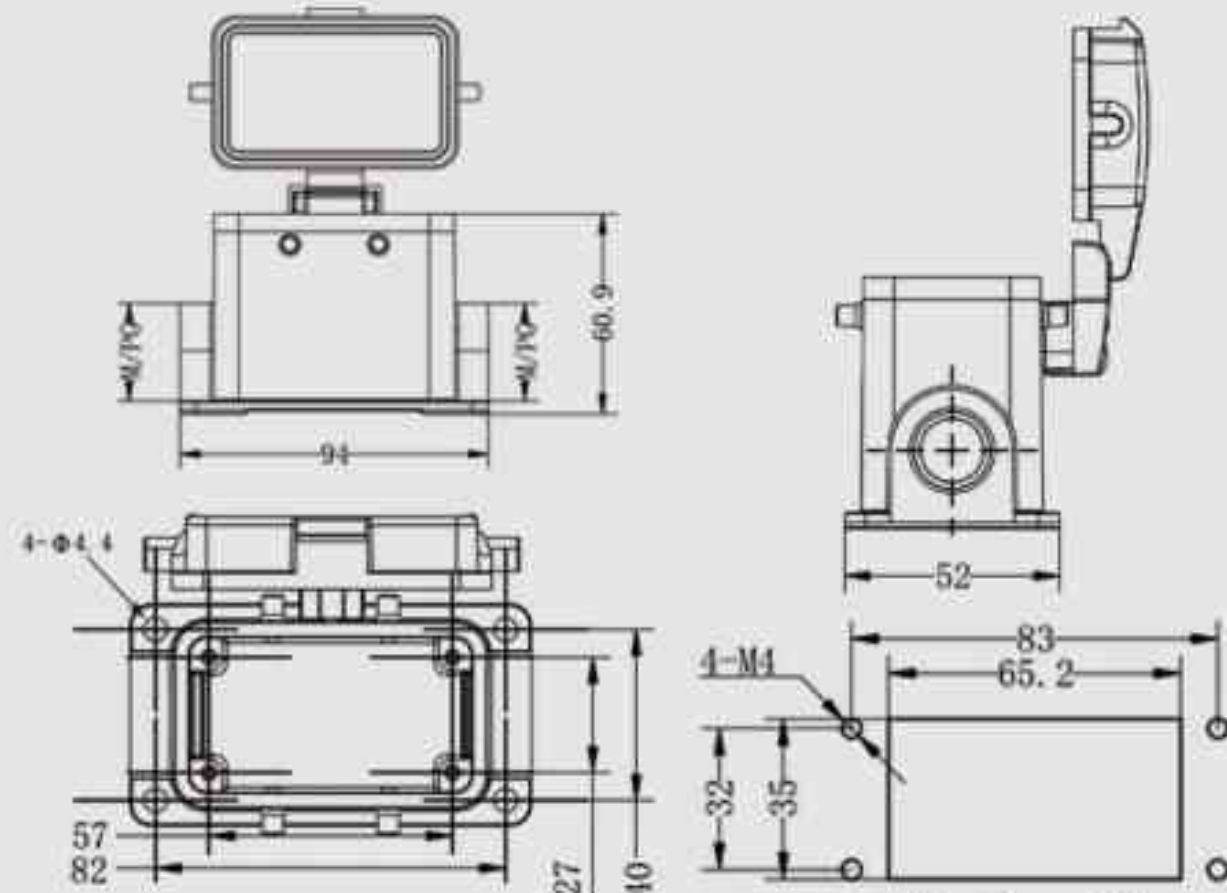
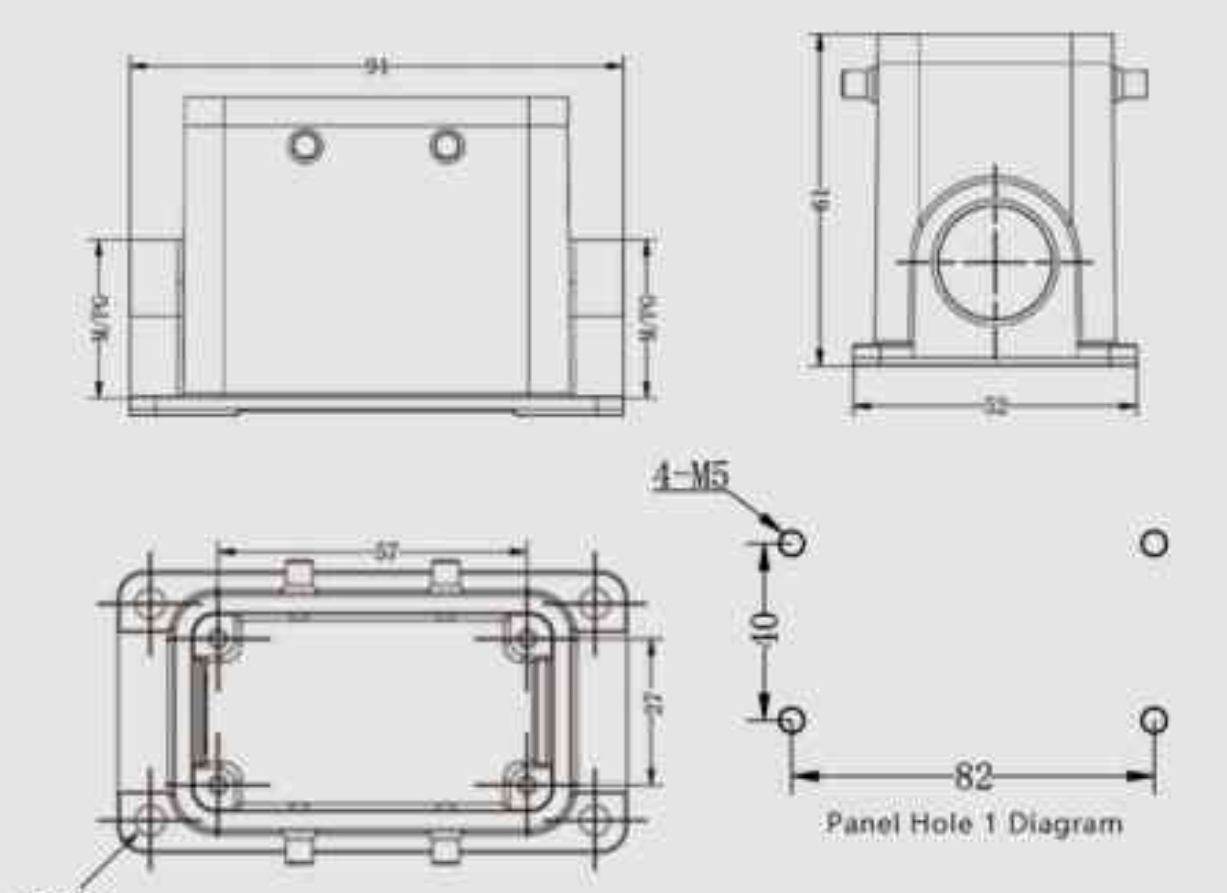
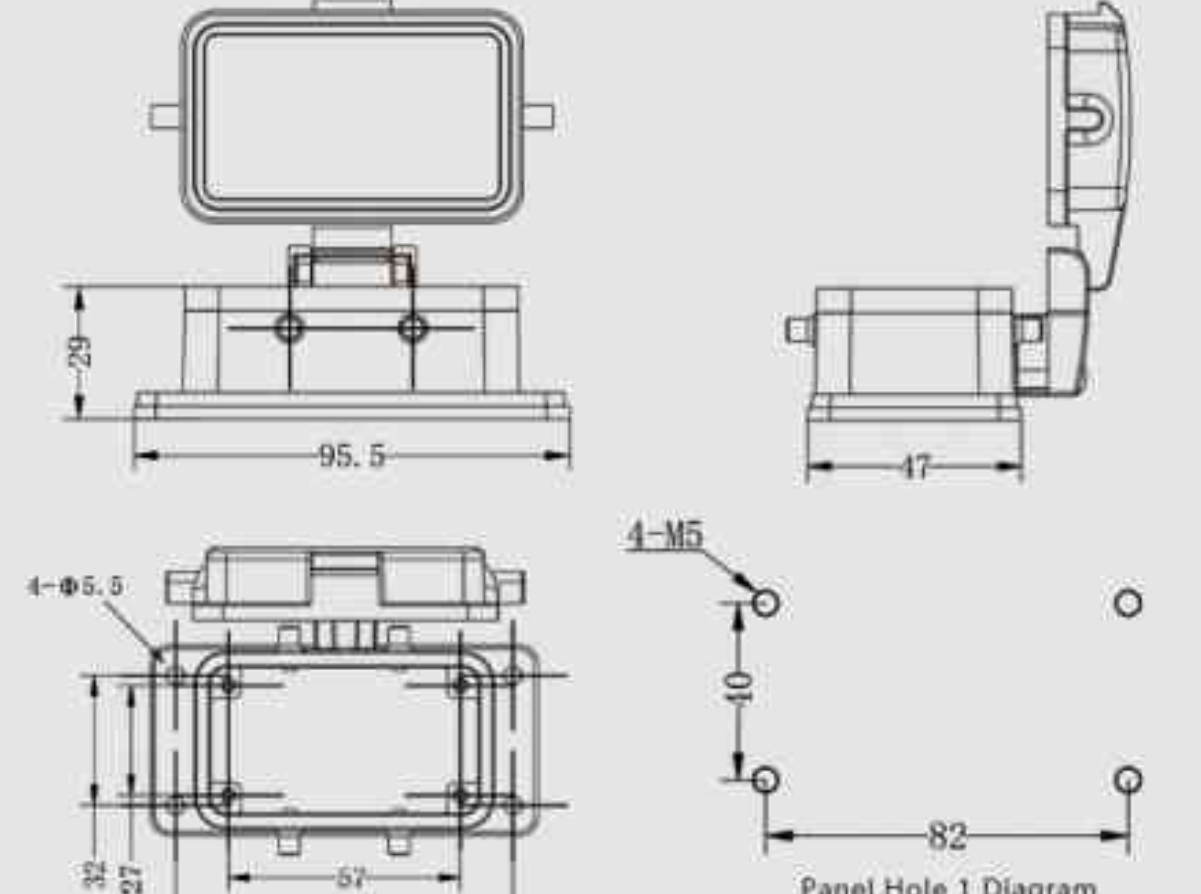
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H10B-HB-2L/S	2 010 306 22 000		
Housings, surface mounting		M20 H10B-SM-2L/S-M20 M25 H10B-SM-2L/S-M25 PG16 H10B-SM-2L/S-PG16 PG21 H10B-SM-2L/S-PG21 2M20 H10B-SM-2L/S-2M20 2M25 H10B-SM-2L/S-2M25 2PG16 H10B-SM-2L/S-2PG16	2 010 307 22 120 2 010 307 22 125 2 010 307 22 116 2 010 307 22 121 2 010 307 22 220 2 010 307 22 225 2 010 307 22 216		
Housings, surface mounting		M20 H10B-SMH-2L/S-M20 M25 H10B-SMH-2L/S-M25 M32 H10B-SMH-2L/S-M32 PG21 H10B-SMH-2L/S-PG21 PG29 H10B-SMH-2L/S-PG29 2M25 H10B-SMH-2L/S-2M25 2M32 H10B-SMH-2L/S-2M32 2PG21 H10B-SMH-2L/S-2PG21 2PG29 H10B-SMH-2L/S-2PG29	2 010 308 22 120 2 010 308 22 125 2 010 308 22 132 2 010 308 22 121 2 010 308 22 129 2 010 308 22 225 2 010 308 22 232 2 010 308 22 221 2 010 308 22 229		

H10B

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H10B-HB-4B	2 010 306 04 000		
					
H10B					
Housings, bulkhead mounting		H10B-HB-4B-CV	2 010 306 05 000		
					
Housings, surface mounting		M20 H10B-SM-4B-M20	2 010 307 04 120		
	M25	H10B-SM-4B-M25	2 010 307 04 125		
	PG13.5	H10B-SM-4B-PG13.5	2 010 307 04 113		
	PG16	H10B-SM-4B-PG16	2 010 307 04 116		
Housings, surface mounting		M20 H10B-SM-4B-CV-M20	2 010 307 05 120		
	M25	H10B-SM-4B-CV-M25	2 010 307 05 125		
	PG13.5	H10B-SM-4B-CV-PG13.5	2 010 307 05 113		
	PG16	H10B-SM-4B-CV-PG16	2 010 307 05 116		

Degree of protection: IP65

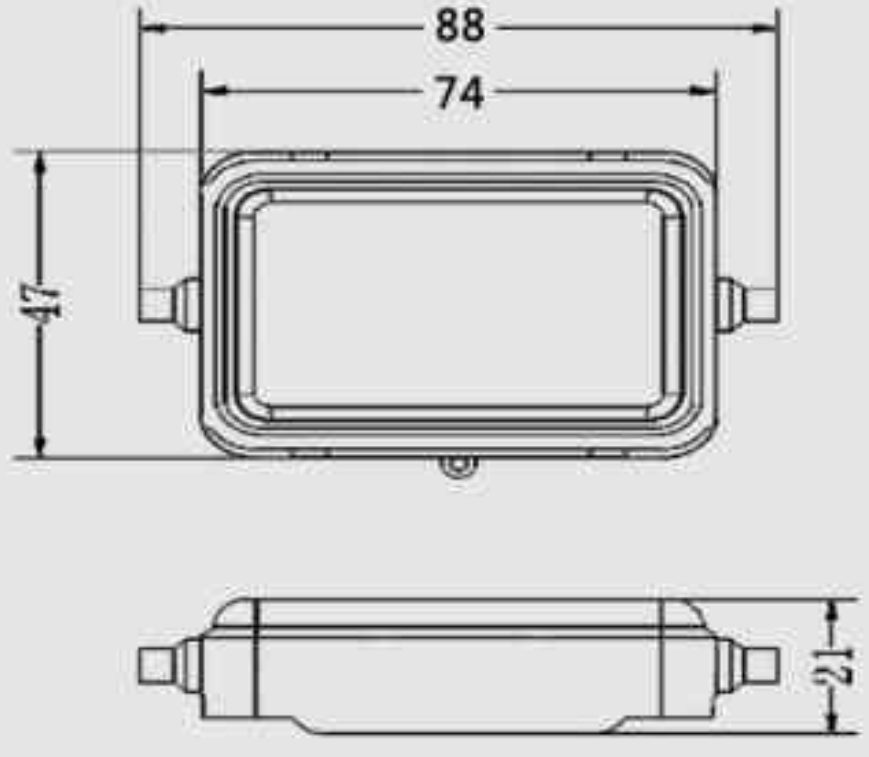
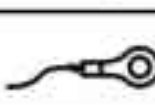
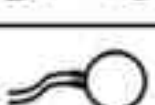
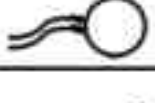
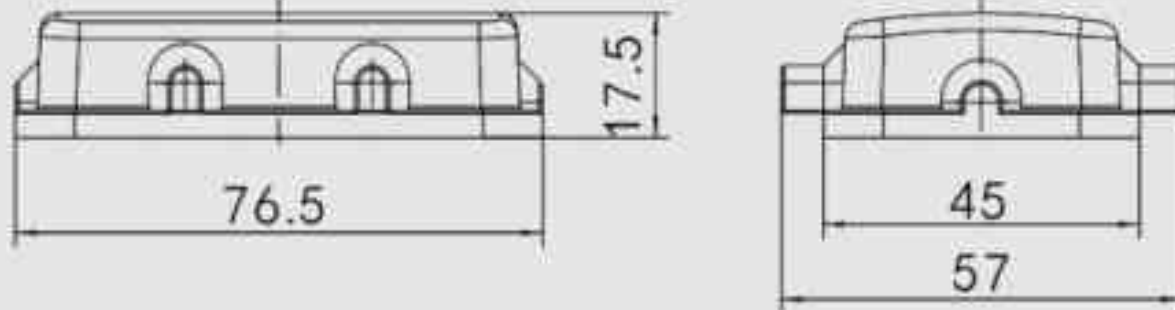
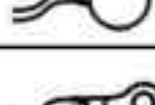
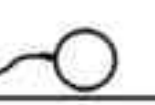
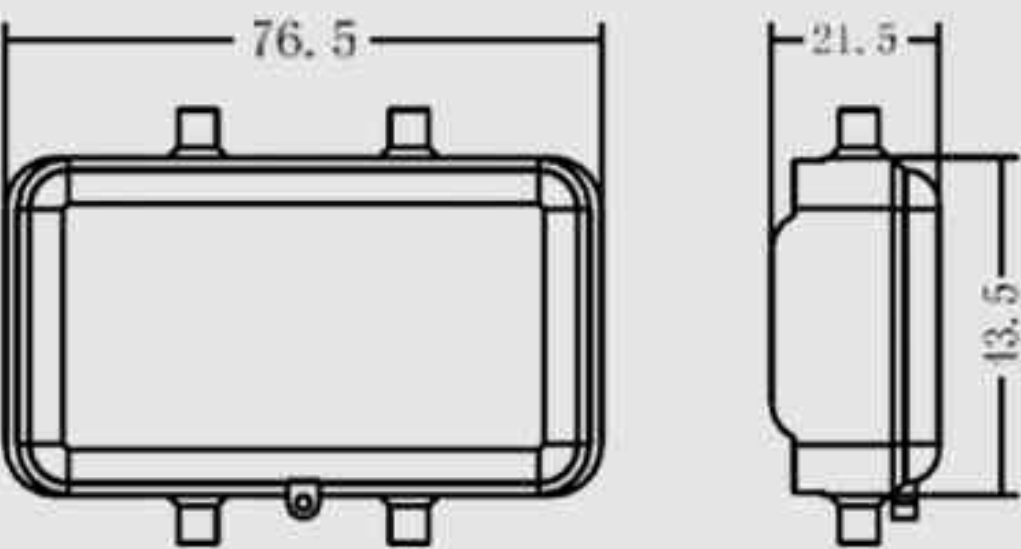
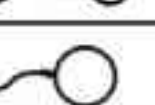
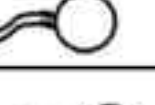
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting	M20	H10B-CTT/P-1L-M20	2 010 326 10 120		
	M25	H10B-CTT/P-1L-M25	2 010 326 10 125		
	PG13.5	H10B-CTT/P-1L-PG13.5	2 010 326 10 113		
	PG16	H10B-CTT/P-1L-PG16	2 010 326 10 116		
	PG21	H10B-CTT/P-1L-PG21	2 010 326 10 121		
Housings, cable to cable	M20	H10B-CTTH/P-1L-M20	2 010 348 10 120		
	M25	H10B-CTTH/P-1L-M25	2 010 348 10 125		
	M32	H10B-CTTH/P-1L-M32	2 010 348 10 132		
	PG13.5	H10B-CTTH/P-1L-PG13.5	2 010 348 10 113		
	PG16	H10B-CTTH/P-1L-PG16	2 010 348 10 116		
Housings, cable to cable	PG21	H10B-CTTH/P-1L-PG21	2 010 348 10 121		
	PG29	H10B-CTTH/P-1L-PG29	2 010 348 10 129		
	M20	H10B-CTT/P-2L-M20	2 010 326 20 120		
	M25	H10B-CTT/P-2L-M25	2 010 326 20 125		
	PG13.5	H10B-CTT/P-2L-PG13.5	2 010 326 20 113		
Housings, cable to cable	PG16	H10B-CTT/P-2L-PG16	2 010 326 20 116		
	PG21	H10B-CTT/P-2L-PG21	2 010 326 20 121		
	M20	H10B-CTTH/P-2L-M20	2 010 348 20 120		
	M25	H10B-CTTH/P-2L-M25	2 010 348 20 125		
	M32	H10B-CTTH/P-2L-M32	2 010 348 20 132		
Housings, cable to cable	PG16	H10B-CTTH/P-2L-PG16	2 010 348 20 116		
	PG21	H10B-CTTH/P-2L-PG21	2 010 348 20 121		
	PG29	H10B-CTTH/P-2L-PG29	2 010 348 20 129		

H10B

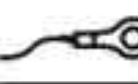
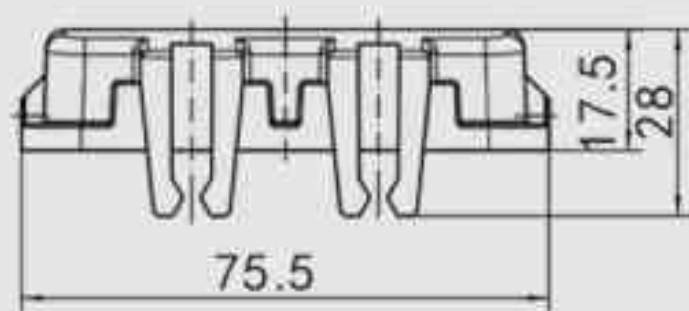
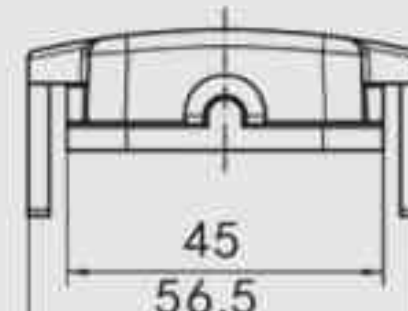
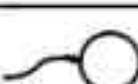
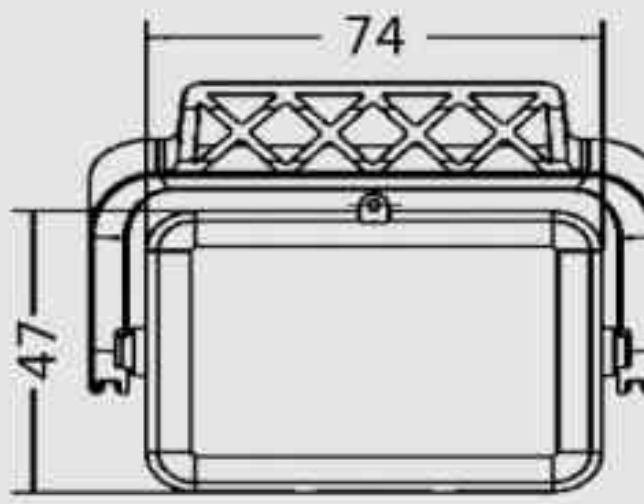
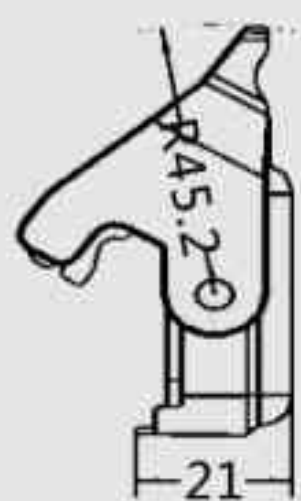
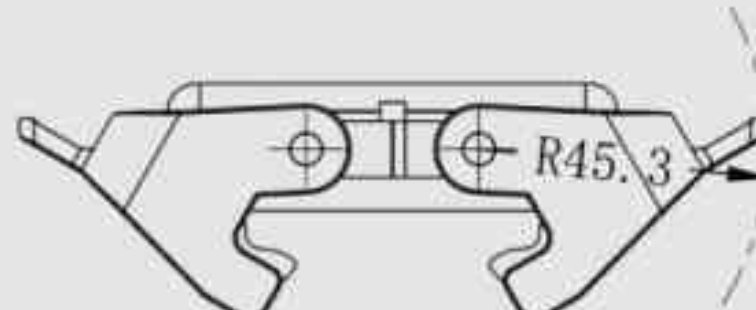
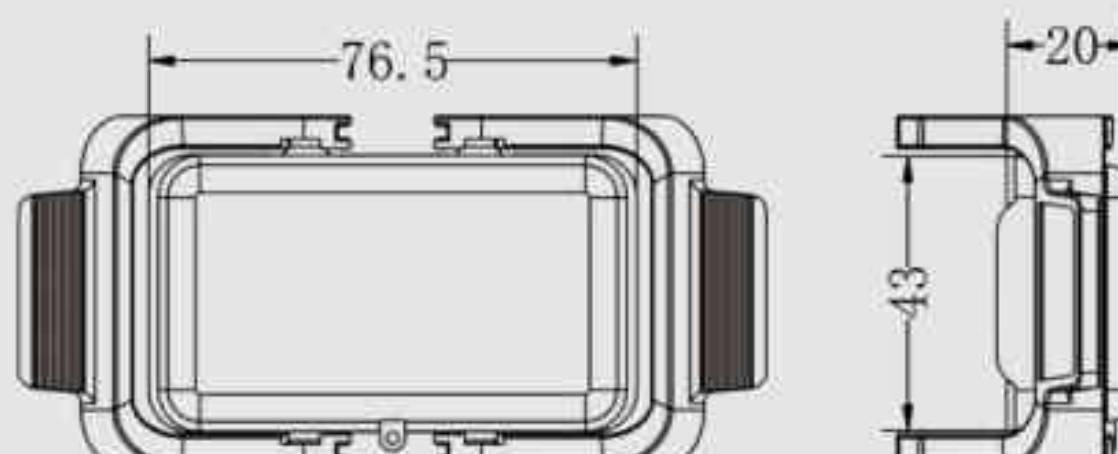
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Protection covers 		H10B-CV-2B/1N	2 010 315 01 082		
		H10B-CV-2B/1N1	2 010 315 01 083		
		H10B-CV-2B/2N	2 010 315 01 084		
		H10B-CV-2B/2N1	2 010 315 01 085		
		H10B-CV-2B/1C	2 010 315 01 092		
		H10B-CV-2B/1C1	2 010 315 01 093		
		H10B-CV-2B/2C	2 010 315 01 094		
		H10B-CV-2B/2C1	2 010 315 01 095		
Protection covers 		H10B-CV-4B	2 010 315 04 000		
		H10B-CV-4B/N	2 010 315 04 080		
		H10B-CV-4B/N1	2 010 315 04 081		
		H10B-CV-4B/C	2 010 315 04 090		
		H10B-CV-4B/C1	2 010 315 04 091		
Protection covers 		H10B-CV-4B/1N	2 010 315 05 082		
		H10B-CV-4B/1N1	2 010 315 05 083		
		H10B-CV-4B/2N	2 010 315 05 084		
		H10B-CV-4B/2N1	2 010 315 05 085		
		H10B-CV-4B/1C	2 010 315 05 092		
		H10B-CV-4B/1C1	2 010 315 05 093		
		H10B-CV-4B/2C	2 010 315 05 094		
		H10B-CV-4B/2C1	2 010 315 05 095		

Degree of protection: IP65

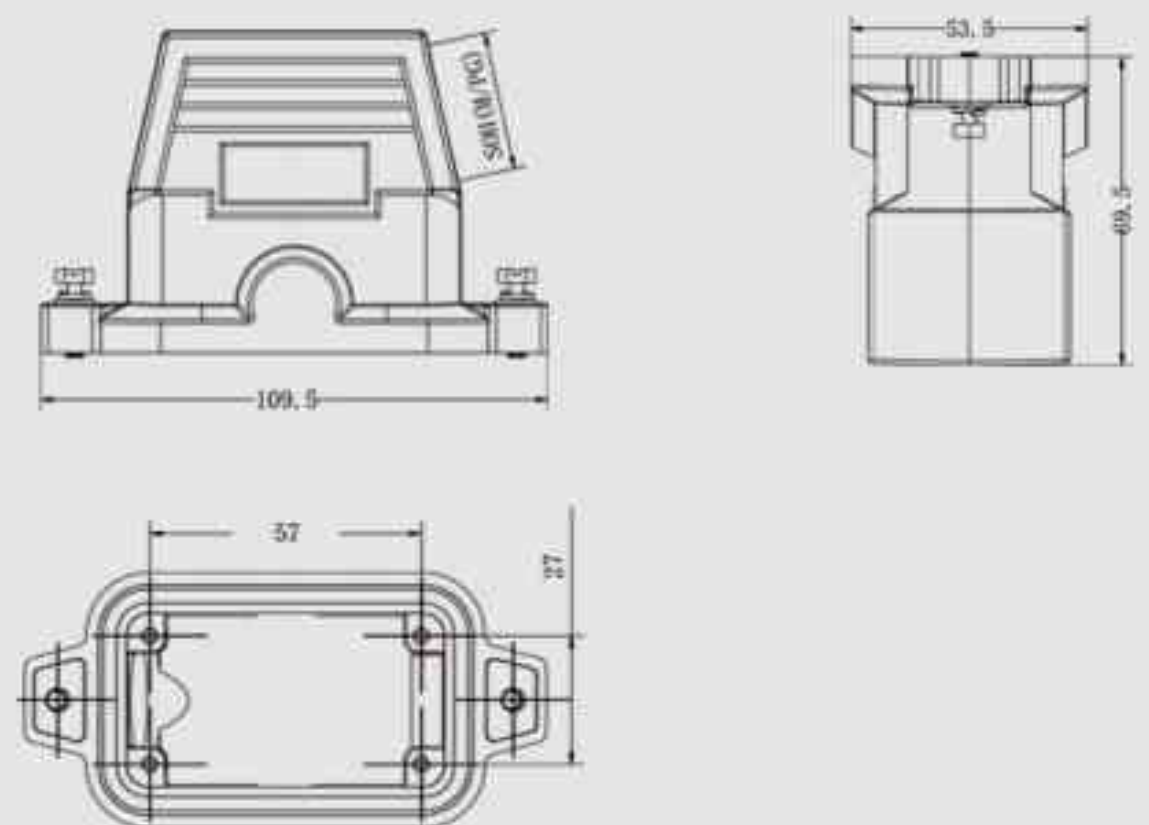
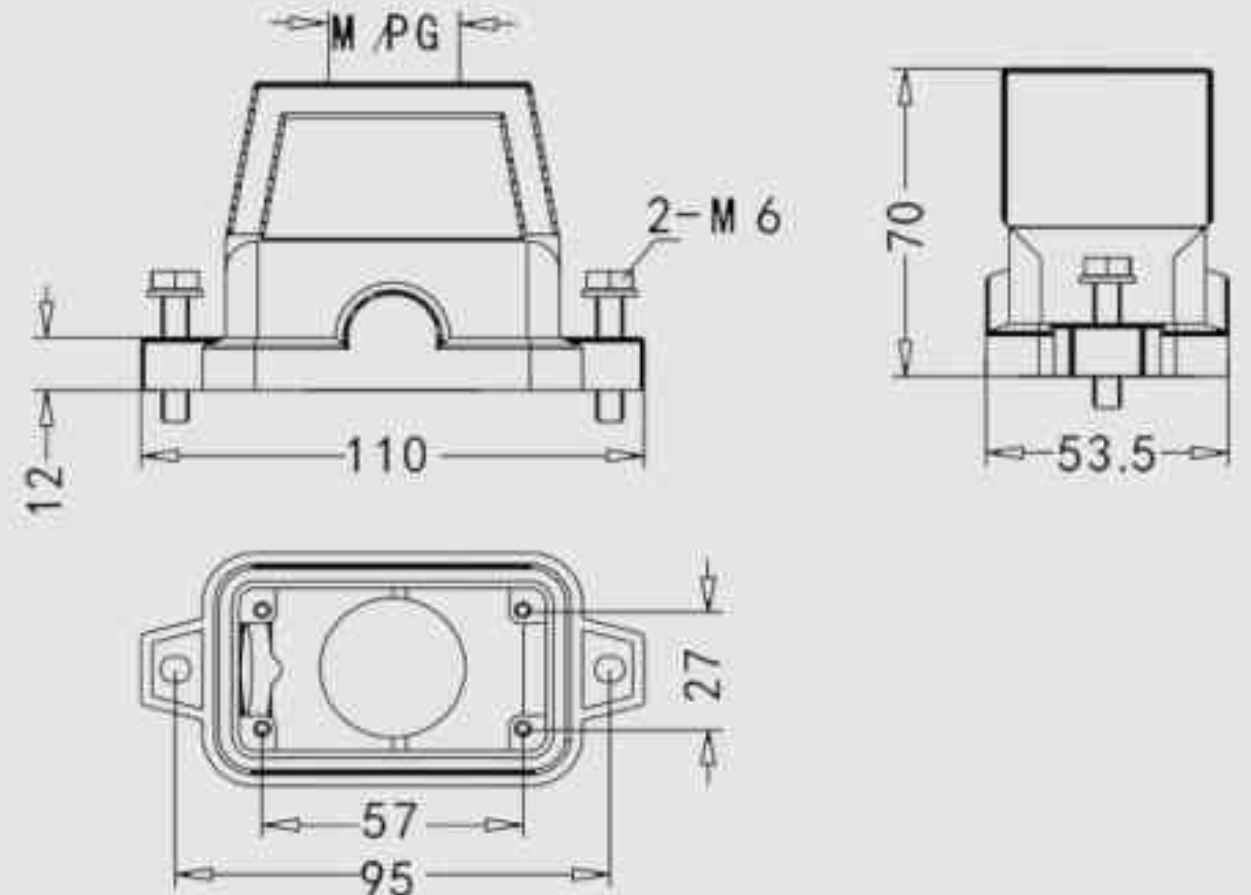
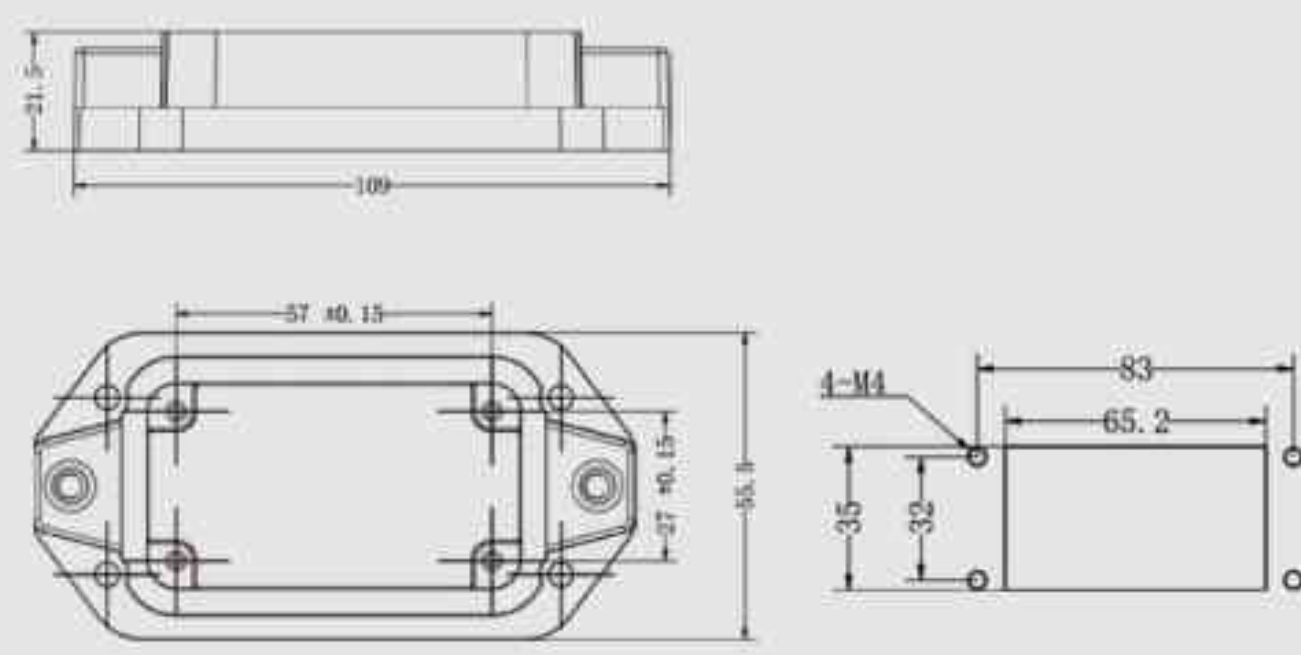
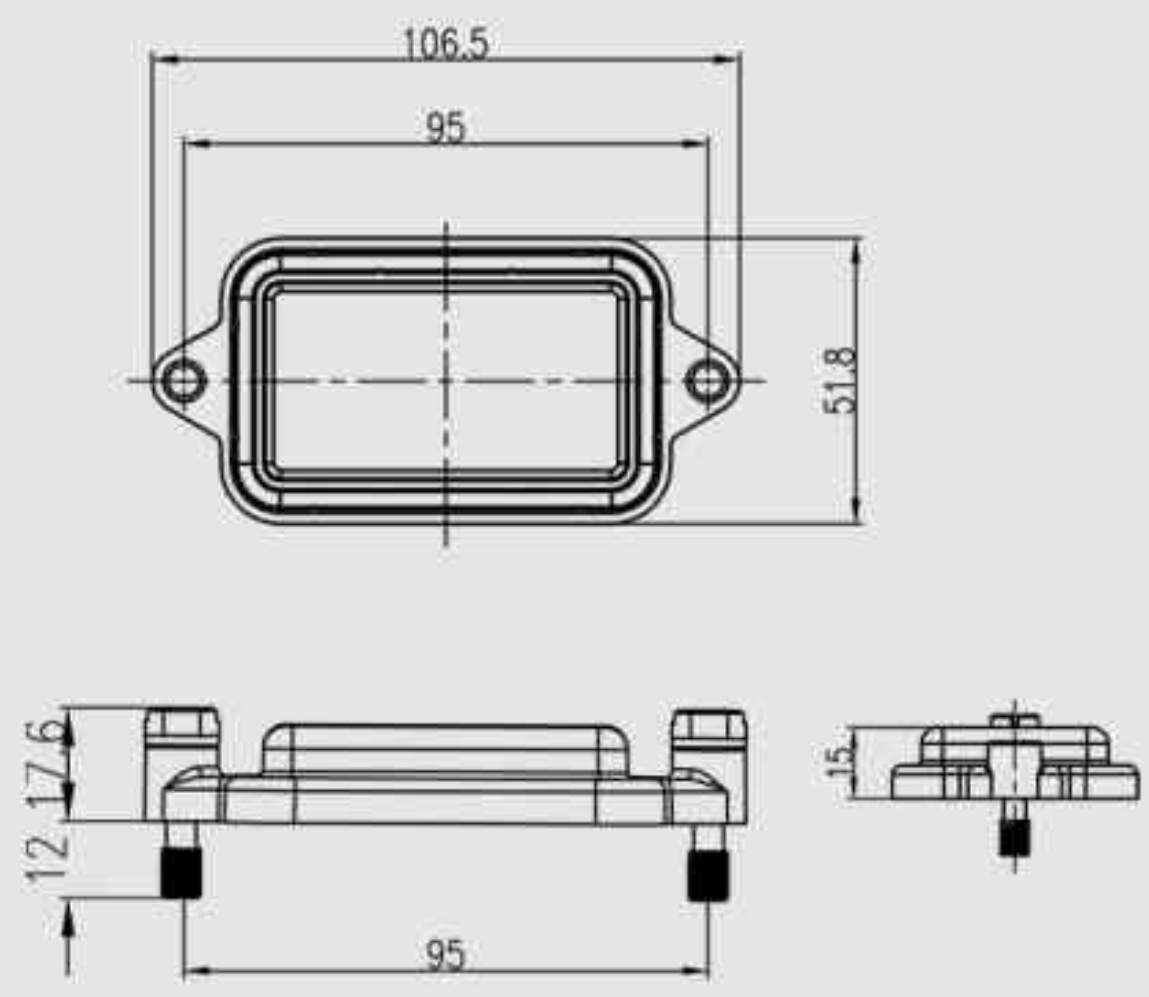
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Protection covers		H10B-CV-4C	2 010 315 30 000		
		H10B-CV-4C/N	2 010 315 30 080		
		H10B-CV-4C/N1	2 010 315 30 081		
		H10B-CV-4C/C	2 010 315 30 090		
		H10B-CV-4C/C1	2 010 315 30 091		
					
Protection covers		H10B-CV-1L	2 010 315 14 000		
		H10B-CV-1L/N	2 010 315 14 080		
		H10B-CV-1L/N1	2 010 315 14 081		
		H10B-CV-1L/C	2 010 315 14 090		
		H10B-CV-1L/C1	2 010 315 14 091		
					
Protection covers		H10B-CV-2L	2 010 315 21 000		
		H10B-CV-2L/N	2 010 315 21 080		
		H10B-CV-2L/N1	2 010 315 21 081		
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		H10B-CV-2L/C1	2 010 315 21 091		
					

H10B

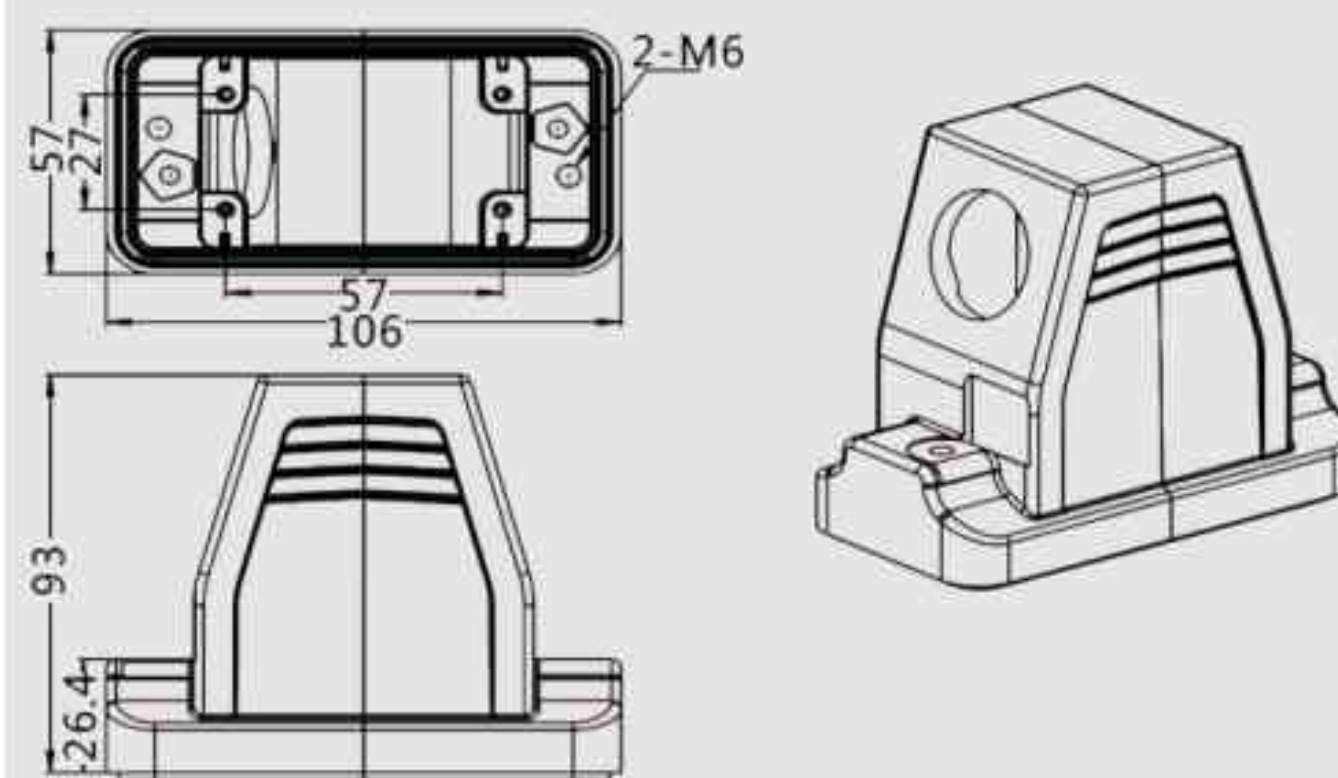
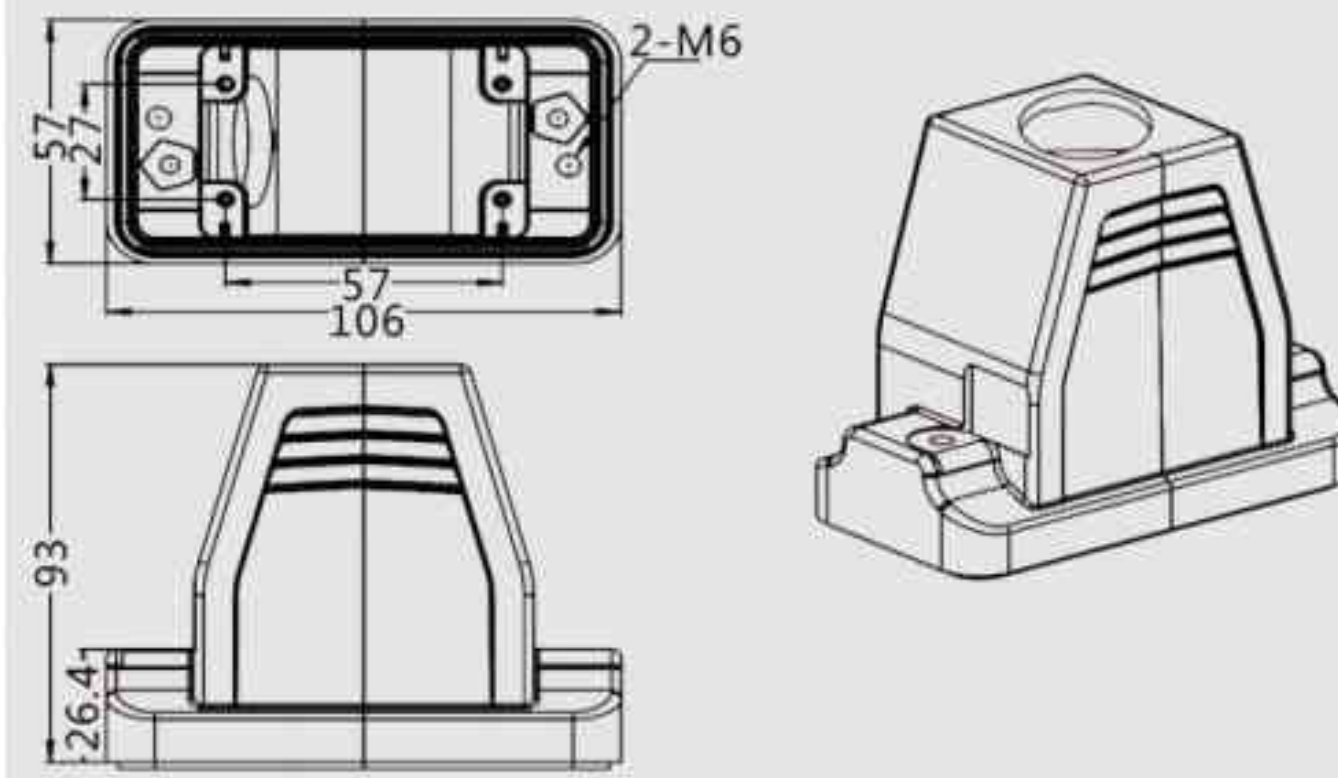
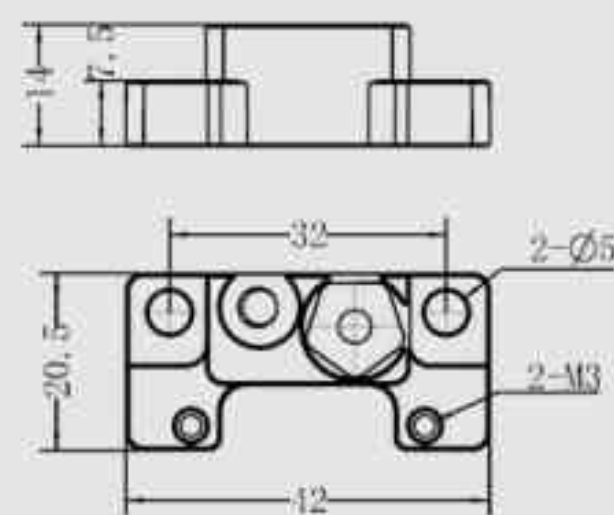
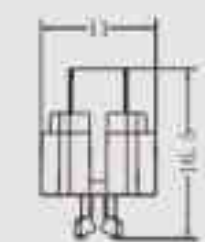
Degree of protection: IP68

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction 	M20	H10BPR-SOH-2T-M20	2 010 304 40 120		
	M25	H10BPR-SOH-2T-M25	2 010 304 40 125		
	M32	H10BPR-SOH-2T-M32	2 010 304 40 132		
	PG16	H10BPR-SOH-2T-PG16	2 010 304 40 116		
	PG21	H10BPR-SOH-2T-PG21	2 010 304 40 121		
H10B Hoods, top entry, high construction 	M20	H10BPR-TOH-2T-M20	2 010 303 40 120		
	M25	H10BPR-TOH-2T-M25	2 010 303 40 125		
	M32	H10BPR-TOH-2T-M32	2 010 303 40 132		
	PG16	H10BPR-TOH-2T-PG16	2 010 303 40 116		
	PG21	H10BPR-TOH-2T-PG21	2 010 303 40 121		
Housings, bulkhead mounting 	H10BPR-HB-2T		2 010 306 40 000		
Protection covers 	H10BPR-CV-2T		2 010 315 00 000		

Degree of protection: IP68

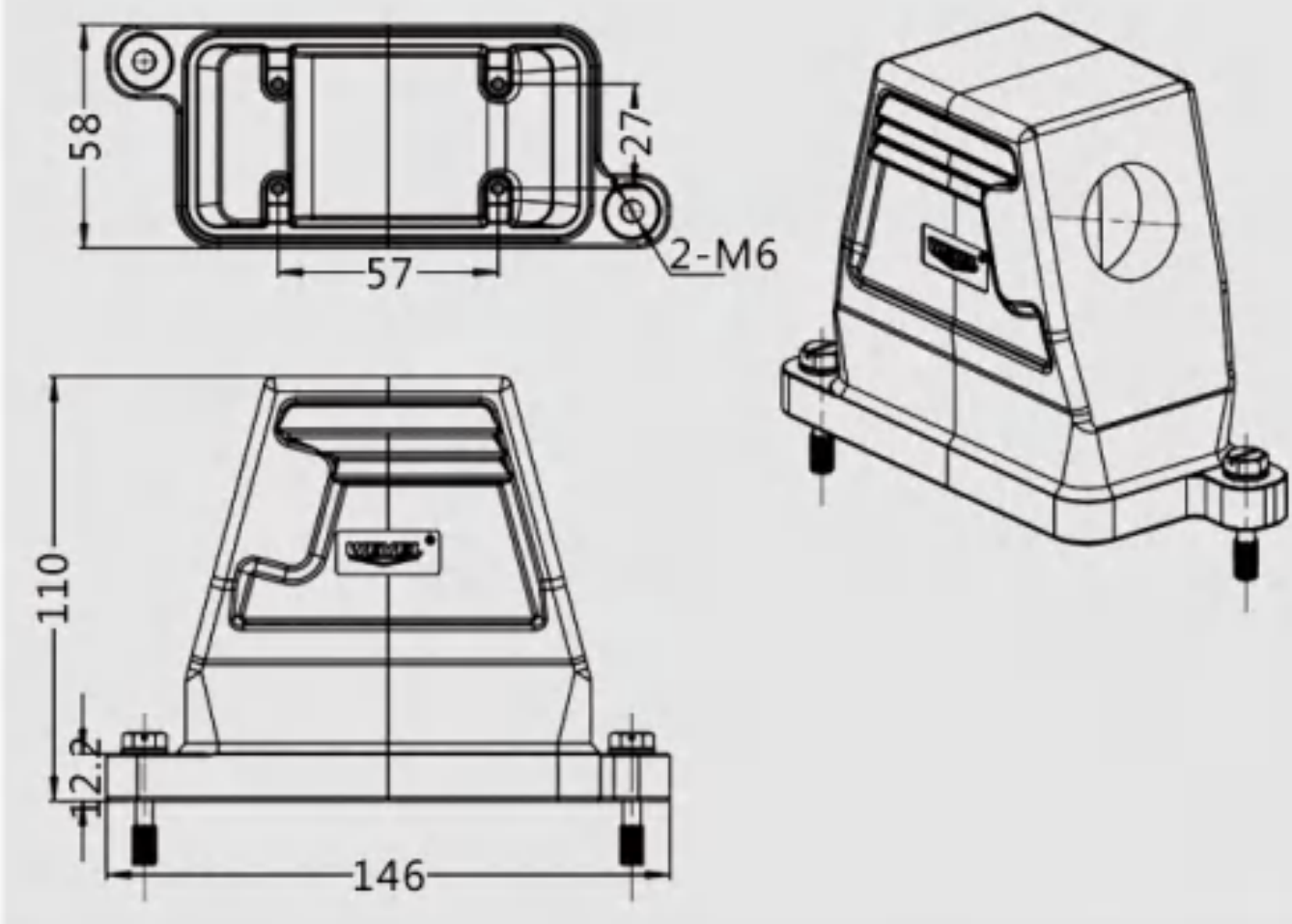
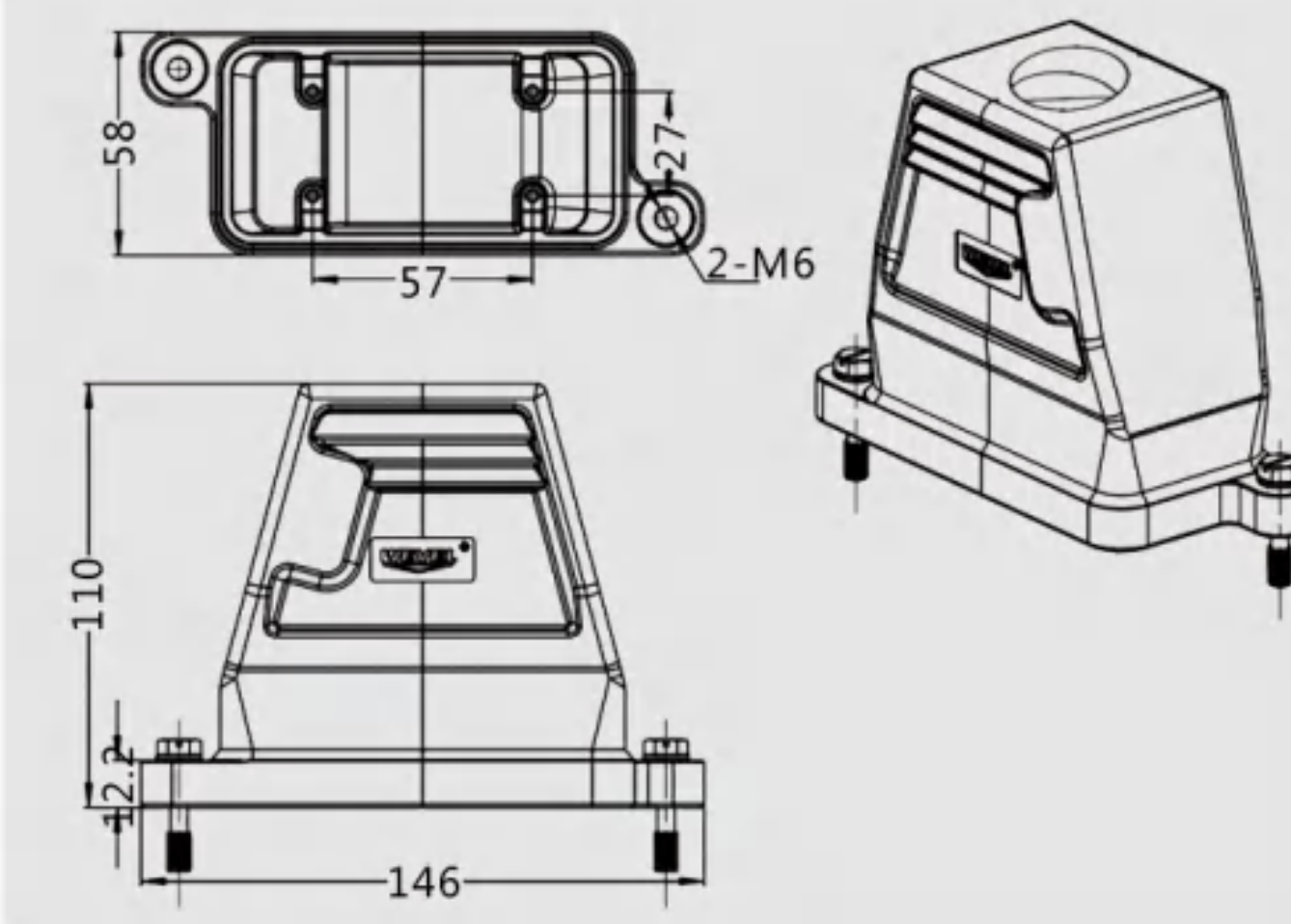
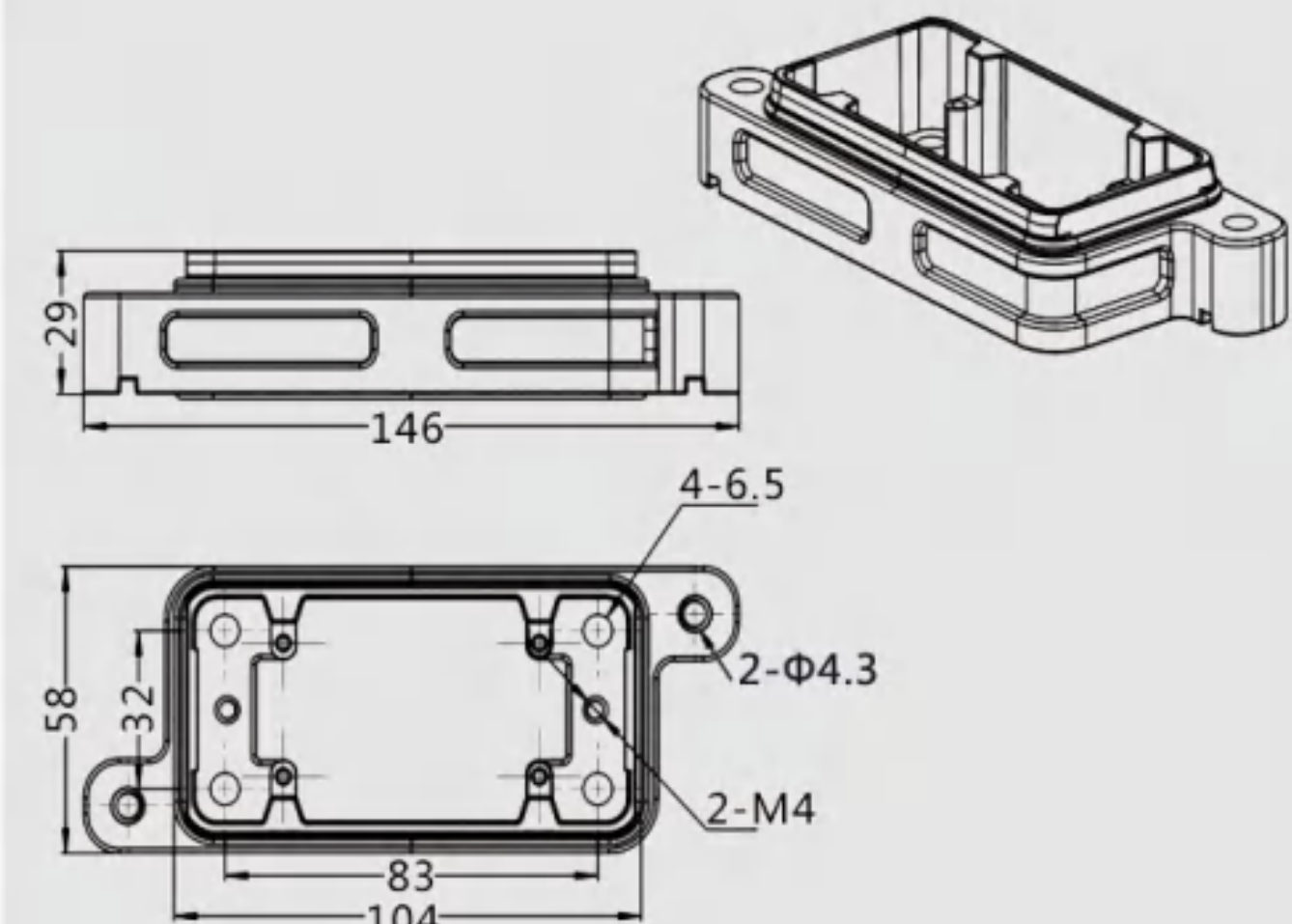
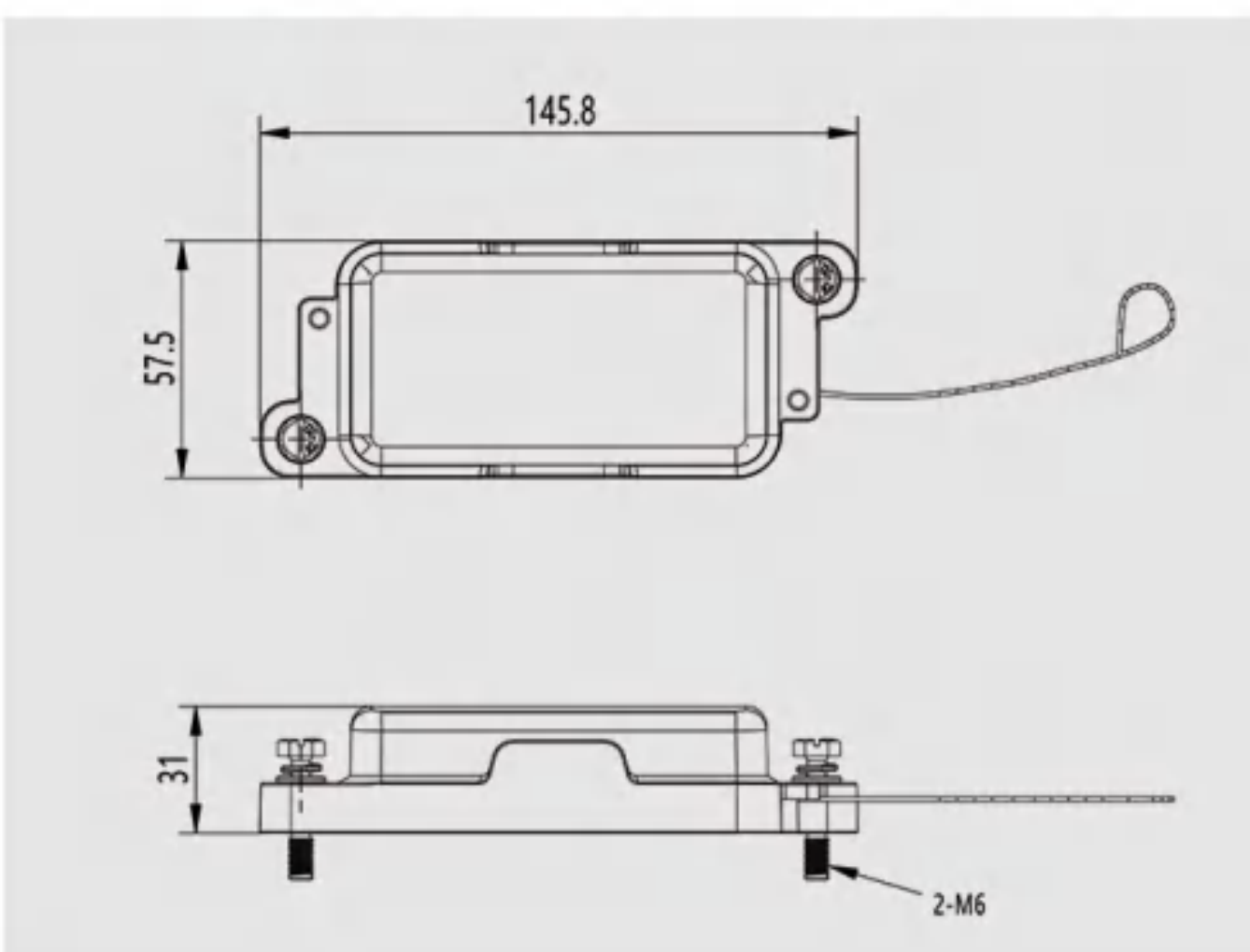
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction	M20	H10BPR-SOH-2T/C-M20	2 010 304 42 120		
	M25	H10BPR-SOH-2T/C-M25	2 010 304 42 125		
	M32	H10BPR-SOH-2T/C-M32	2 010 304 42 132		
	M40	H10BPR-SOH-2T/C-M40	2 010 304 42 140		
	PG16	H10BPR-SOH-2T/C-PG16	2 010 304 42 116		
	PG21	H10BPR-SOH-2T/C-PG21	2 010 304 42 121		
	PG29	H10BPR-SOH-2T/C-PG29	2 010 304 42 129		
Hoods, top entry, high construction	M20	H10BPR-TOH-2T/C-M20	2 010 303 42 120		
	M25	H10BPR-TOH-2T/C-M25	2 010 303 42 125		
	M32	H10BPR-TOH-2T/C-M32	2 010 303 42 132		
	M40	H10BPR-TOH-2T/C-M40	2 010 303 42 140		
	PG16	H10BPR-TOH-2T/C-PG16	2 010 303 42 116		
	PG21	H10BPR-TOH-2T/C-PG21	2 010 303 42 121		
	PG29	H10BPR-TOH-2T/C-PG29	2 010 303 42 129		
Fixed	HB-2T/C		2 000 306 42 000		
Coding Element	CODE-2T/C		3 000 091 00 200		

H10B

Degree of protection: IP68

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction	M20	H10BPR-SOH-2T/H-M20	2 010 304 41 120		
	M25	H10BPR-SOH-2T/H-M25	2 010 304 41 125		
	M32	H10BPR-SOH-2T/H-M32	2 010 304 41 132		
	M40	H10BPR-SOH-2T/H-M40	2 010 304 41 140		
	PG16	H10BPR-SOH-2T/H-PG16	2 010 304 41 116		
	PG21	H10BPR-SOH-2T/H-PG21	2 010 304 41 121		
	PG29	H10BPR-SOH-2T/H-PG29	2 010 304 41 129		
Hoods, top entry, high construction	M20	H10BPR-TOH-2T/H-M20	2 010 303 41 120		
	M25	H10BPR-TOH-2T/H-M25	2 010 303 41 125		
	M32	H10BPR-TOH-2T/H-M32	2 010 303 41 132		
	M40	H10BPR-TOH-2T/H-M40	2 010 303 41 140		
	PG16	H10BPR-TOH-2T/H-PG16	2 010 303 41 116		
	PG21	H10BPR-TOH-2T/H-PG21	2 010 303 41 121		
	PG29	H10BPR-TOH-2T/H-PG29	2 010 303 41 129		
Housings, bulkhead mounting	H10BPR-HB-2T/H		2 010 306 41 000		
					
Protection covers	H10BPR-MCV-2T/H/N		2 010 327 41 080		
					

Degree of protection: IP65

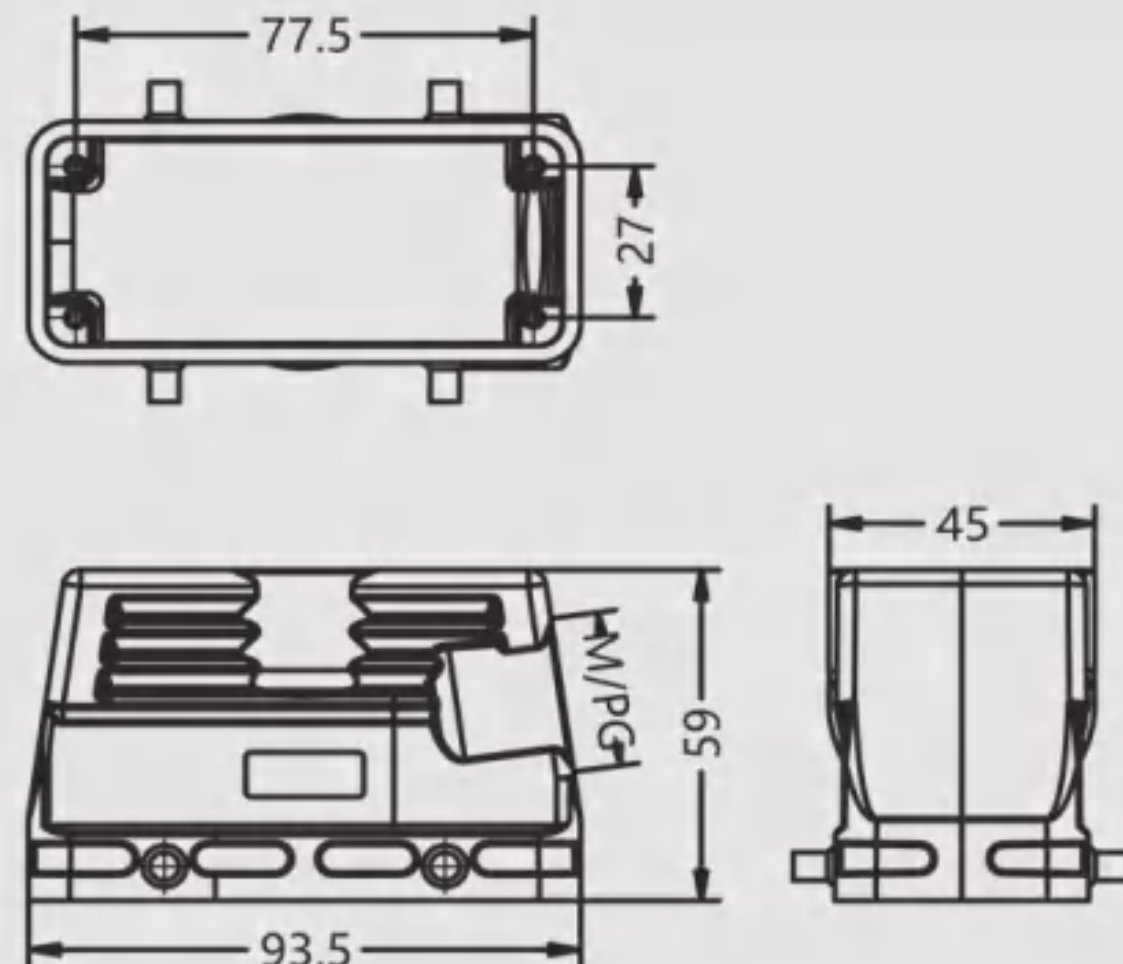
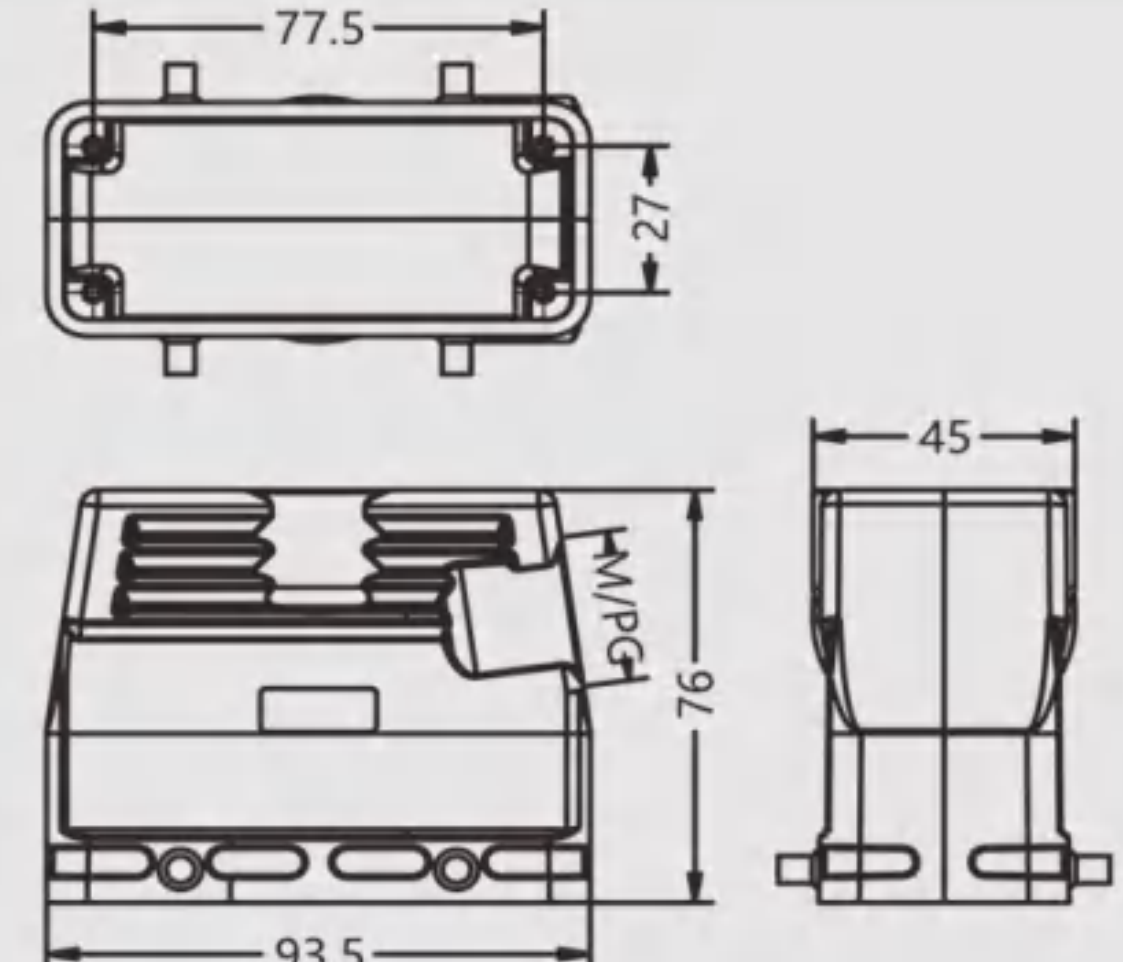
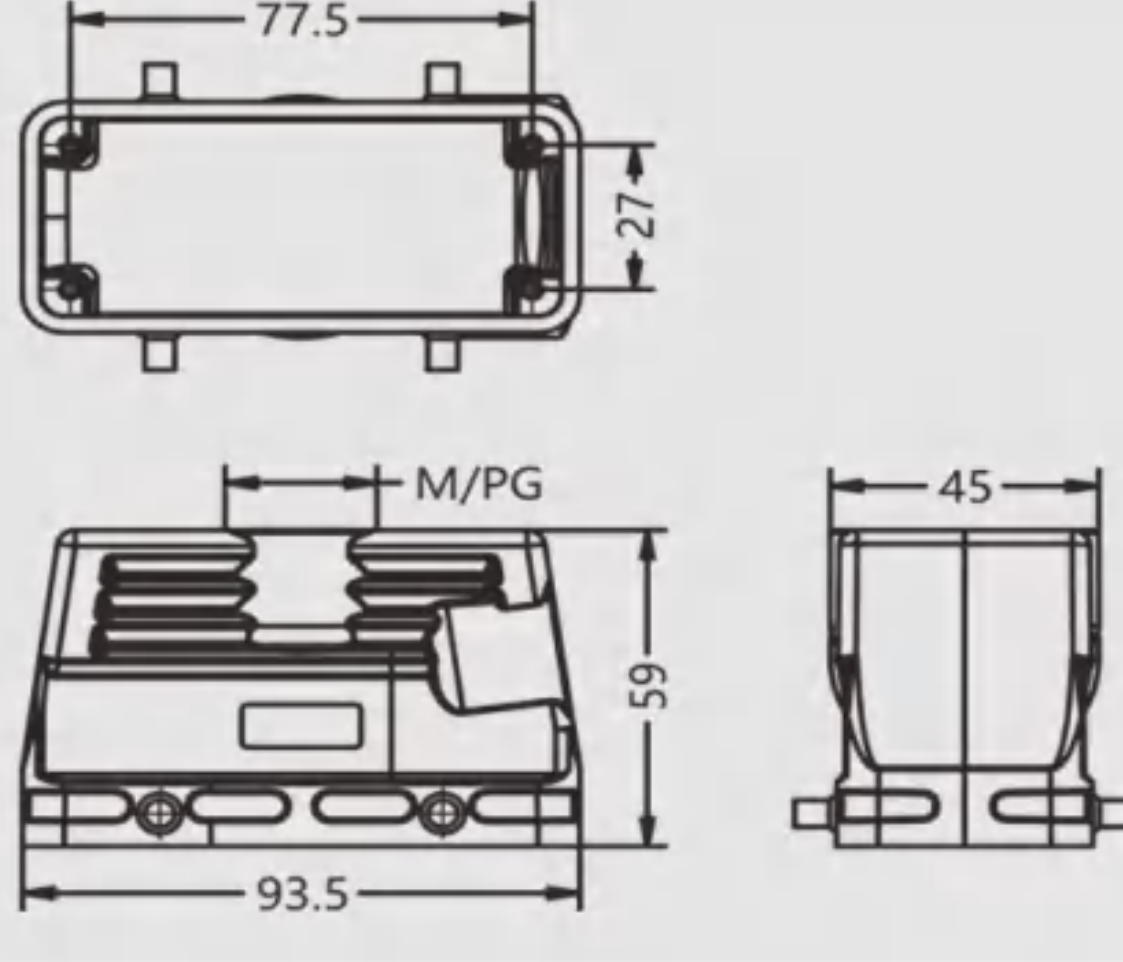
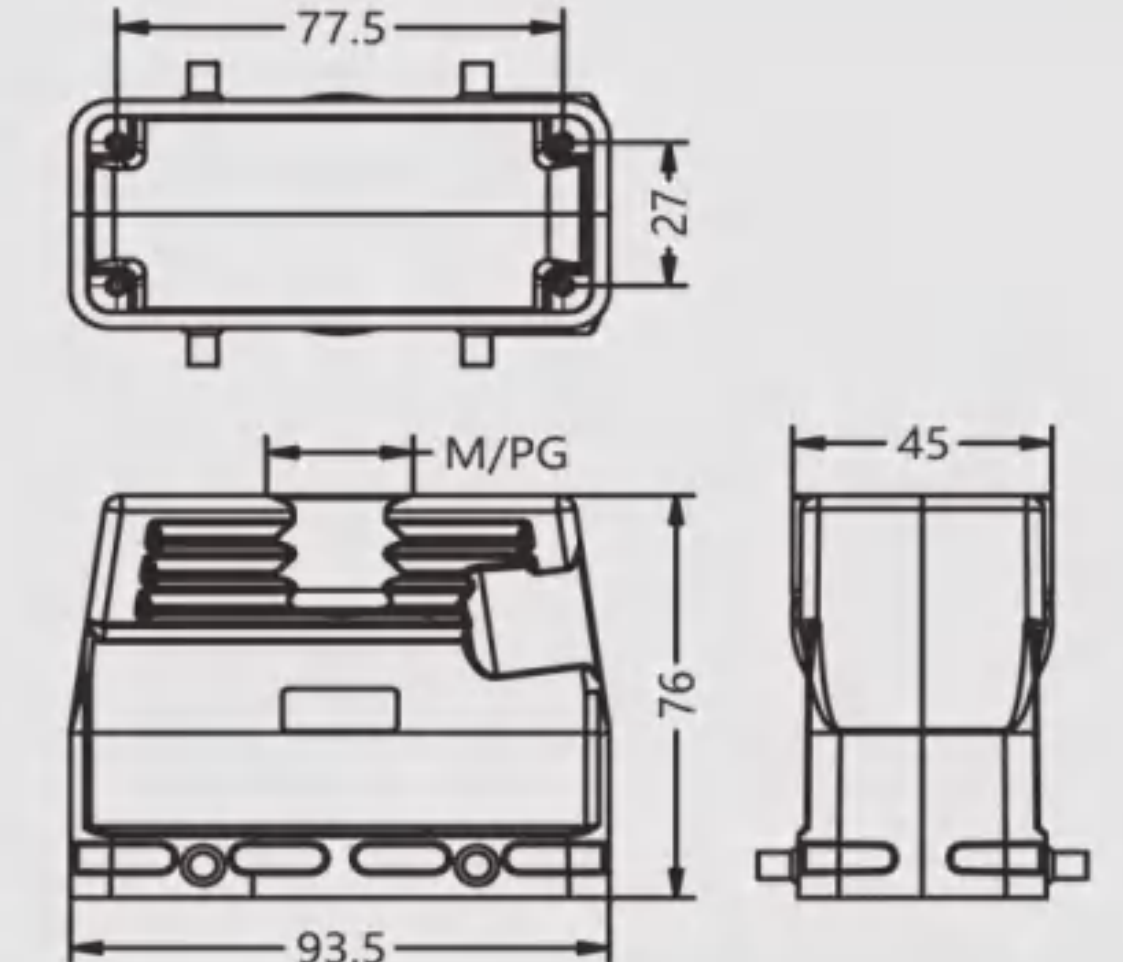
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry	M20	H16B-SO/P-2B-M20	2 016 324 02 120		
	M25	H16B-SO/P-2B-M25	2 016 324 02 125		
	M32	H16B-SO/P-2B-M32	2 016 324 02 132		
	PG13.5	H16B-SO/P-2B-PG13.5	2 016 324 02 113		
	PG16	H16B-SO/P-2B-PG16	2 016 324 02 116		
	PG21	H16B-SO/P-2B-PG21	2 016 324 02 121		
Hoods, side entry, high construction	M20	H16B-SOH/P-2B-M20	2 016 334 02 120		
	M25	H16B-SOH/P-2B-M25	2 016 334 02 125		
	M32	H16B-SOH/P-2B-M32	2 016 334 02 132		
	M40	H16B-SOH/P-2B-M40	2 016 334 02 140		
	PG13.5	H16B-SOH/P-2B-PG13.5	2 016 334 02 113		
	PG16	H16B-SOH/P-2B-PG16	2 016 334 02 116		
	PG21	H16B-SOH/P-2B-PG21	2 016 334 02 121		
	PG29	H16B-SOH/P-2B-PG29	2 016 334 02 129		
Hoods, top entry	M20	H16B-TO/P-2B-M20	2 016 323 02 120		
	M25	H16B-TO/P-2B-M25	2 016 323 02 125		
	M32	H16B-TO/P-2B-M32	2 016 323 02 132		
	PG13.5	H16B-TO/P-2B-PG13.5	2 016 323 02 113		
	PG16	H16B-TO/P-2B-PG16	2 016 323 02 116		
	PG21	H16B-TO/P-2B-PG21	2 016 323 02 121		
Hoods, top entry, high construction	M20	H16B-TOH/P-2B-M20	2 016 335 02 120		
	M25	H16B-TOH/P-2B-M25	2 016 335 02 125		
	M32	H16B-TOH/P-2B-M32	2 016 335 02 132		
	M40	H16B-TOH/P-2B-M40	2 016 335 02 140		
	PG13.5	H16B-TOH/P-2B-PG13.5	2 016 335 02 113		
	PG16	H16B-TOH/P-2B-PG16	2 016 335 02 116		
	PG21	H16B-TOH/P-2B-PG21	2 016 335 02 121		
	PG29	H16B-TOH/P-2B-PG29	2 016 335 02 129		

H16B

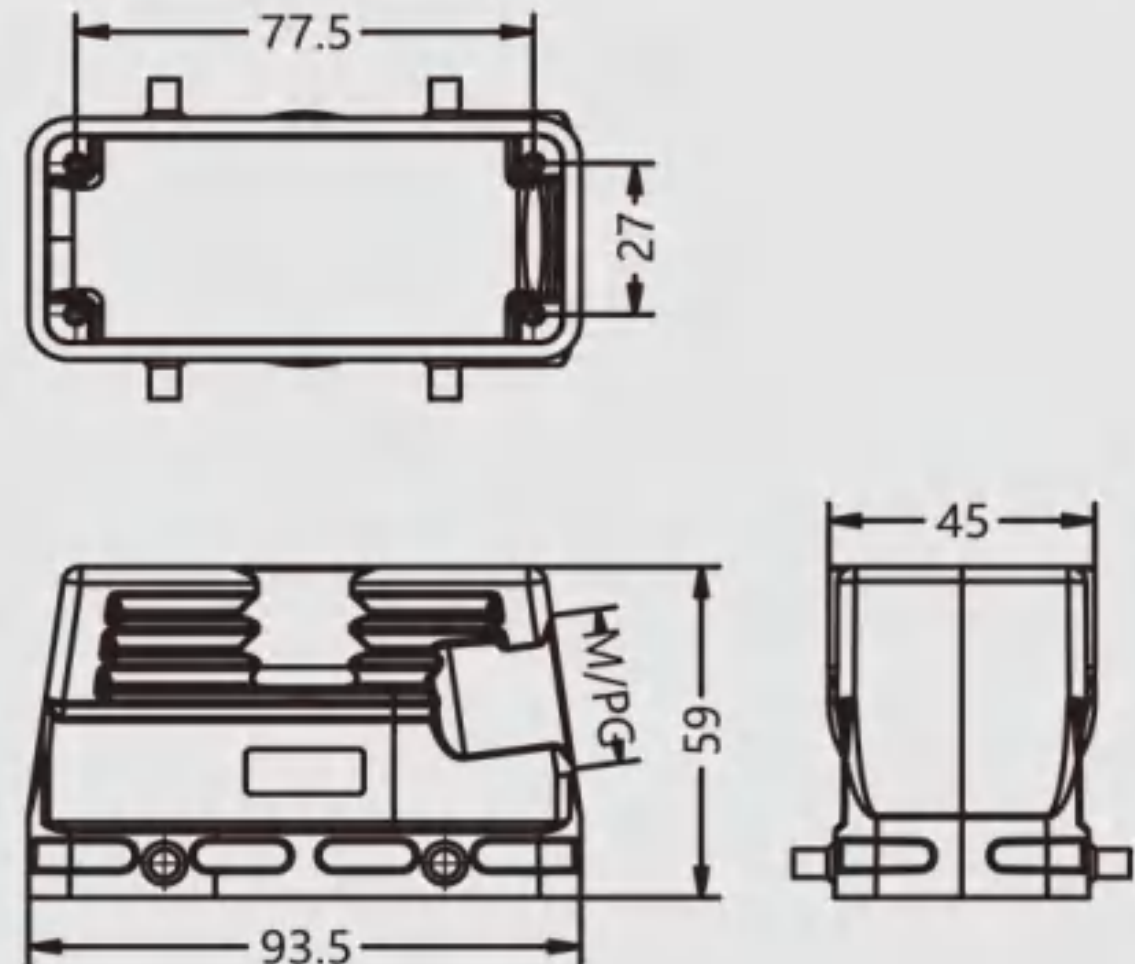
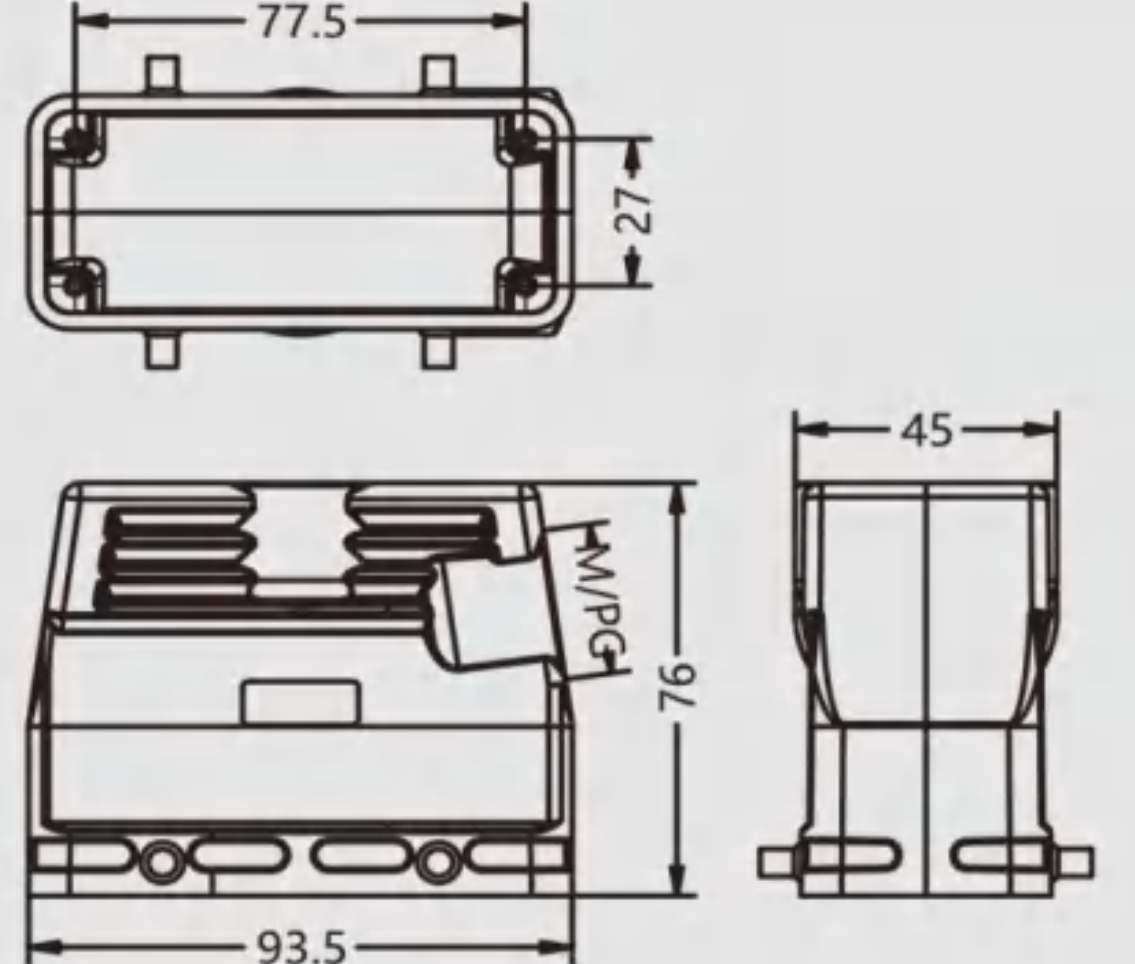
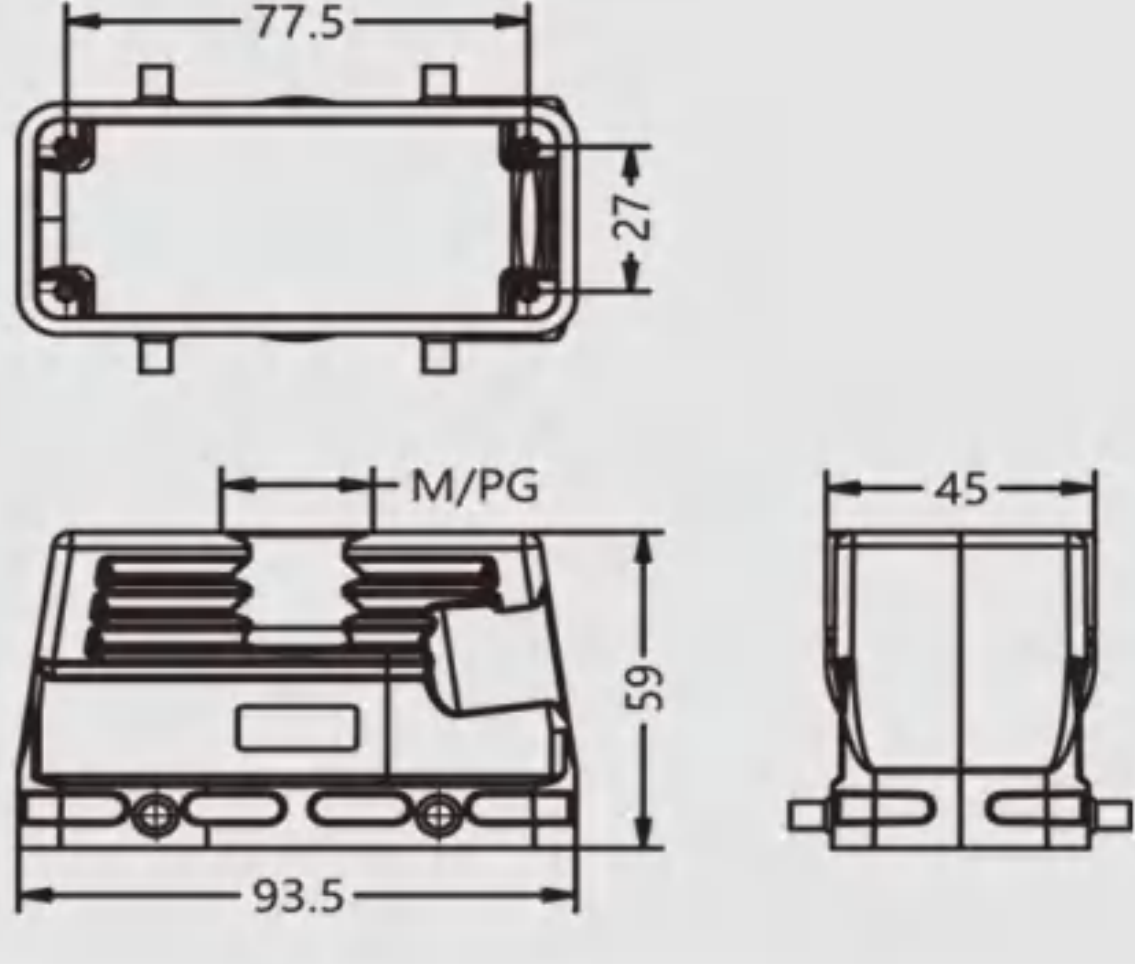
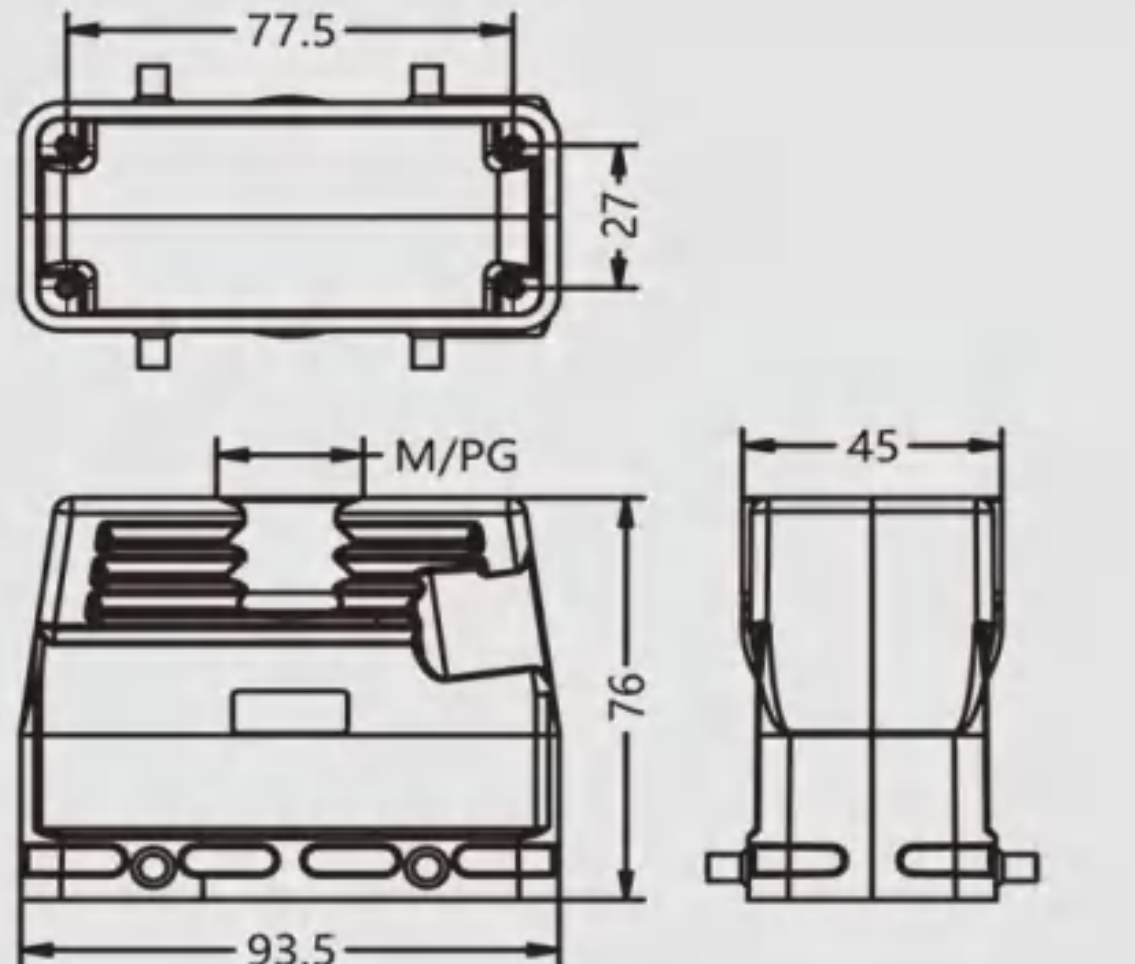
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry 	M20	H16B-SO/P-4B-M20	2 016 324 04 120		
	M25	H16B-SO/P-4B-M25	2 016 324 04 125		
	M32	H16B-SO/P-4B-M32	2 016 324 04 132		
	PG13.5	H16B-SO/P-4B-PG13.5	2 016 324 04 113		
	PG16	H16B-SO/P-4B-PG16	2 016 324 04 116		
	PG21	H16B-SO/P-4B-PG21	2 016 324 04 121		
Hoods, side entry, high construction 	M20	H16B-SOH/P-4B-M20	2 016 334 04 120		
	M25	H16B-SOH/P-4B-M25	2 016 334 04 125		
	M32	H16B-SOH/P-4B-M32	2 016 334 04 132		
	M40	H16B-SOH/P-4B-M40	2 016 334 04 140		
	PG13.5	H16B-SOH/P-4B-PG13.5	2 016 334 04 113		
	PG16	H16B-SOH/P-4B-PG16	2 016 334 04 116		
	PG21	H16B-SOH/P-4B-PG21	2 016 334 04 121		
	PG29	H16B-SOH/P-4B-PG29	2 016 334 04 129		
Hoods, top entry 	M20	H16B-TO/P-4B-M20	2 016 323 04 120		
	M25	H16B-TO/P-4B-M25	2 016 323 04 125		
	M32	H16B-TO/P-4B-M32	2 016 323 04 132		
	PG13.5	H16B-TO/P-4B-PG13.5	2 016 323 04 113		
	PG16	H16B-TO/P-4B-PG16	2 016 323 04 116		
	PG21	H16B-TO/P-4B-PG21	2 016 323 04 121		
Hoods, top entry, high construction 	M20	H16B-TOH/P-4B-M20	2 016 332 04 120		
	M25	H16B-TOH/P-4B-M25	2 016 332 04 125		
	M32	H16B-TOH/P-4B-M32	2 016 332 04 132		
	M40	H16B-TOH/P-4B-M40	2 016 332 04 140		
	PG13.5	H16B-TOH/P-4B-PG13.5	2 016 332 04 113		
	PG16	H16B-TOH/P-4B-PG16	2 016 332 04 116		
	PG21	H16B-TOH/P-4B-PG21	2 016 332 04 121		
	PG29	H16B-TOH/P-4B-PG29	2 016 332 04 129		

Degree of protection: IP65

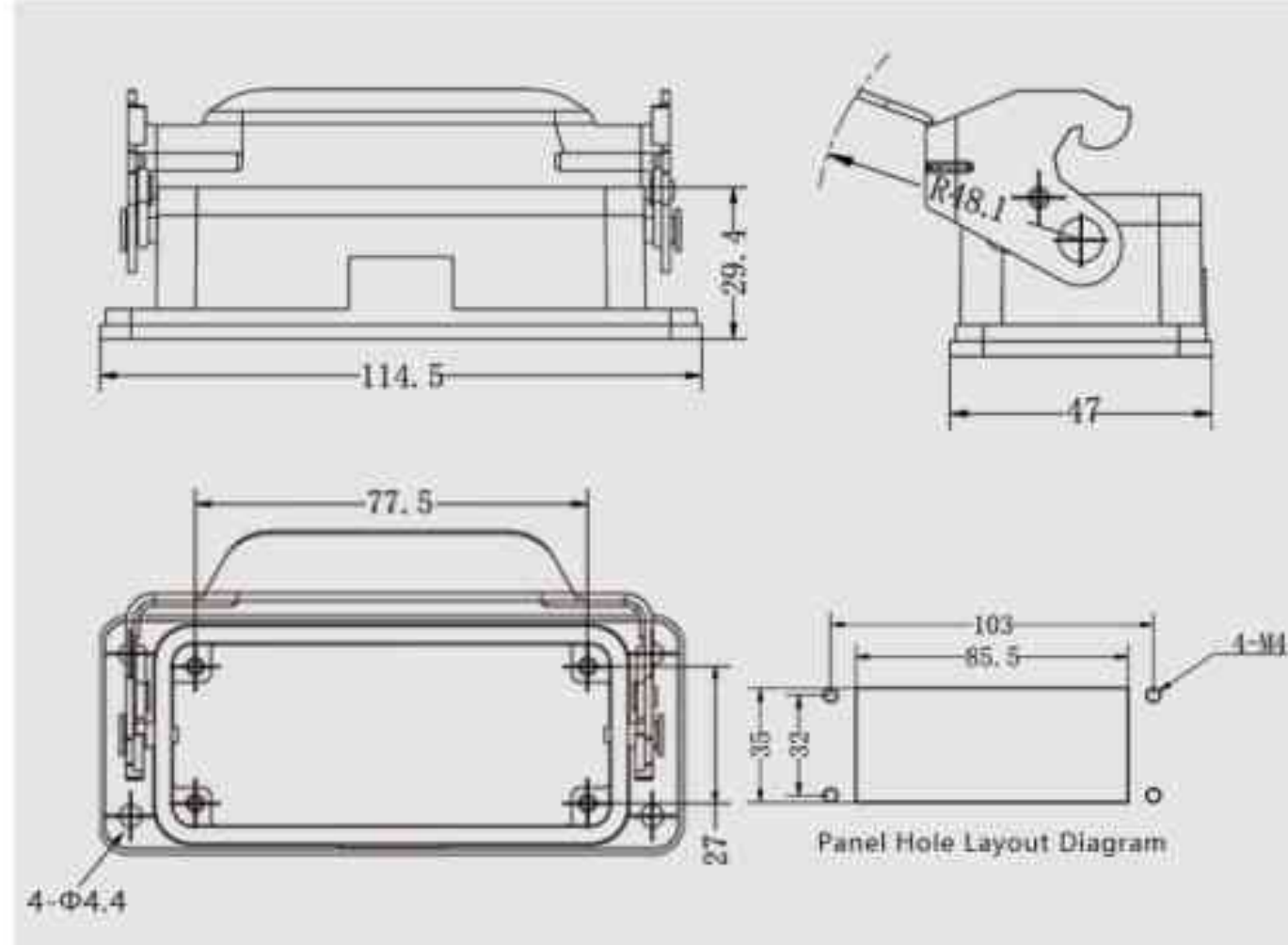
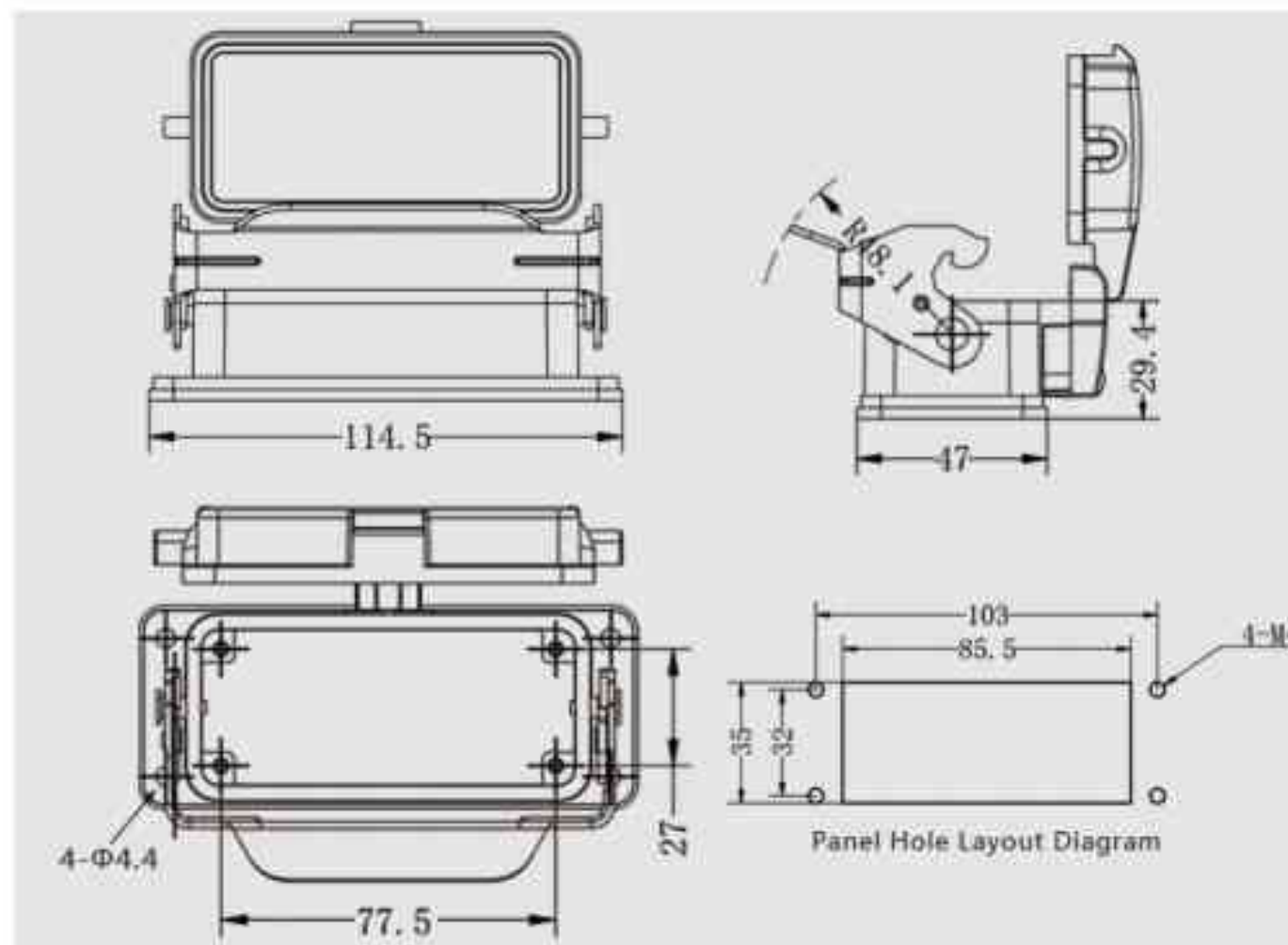
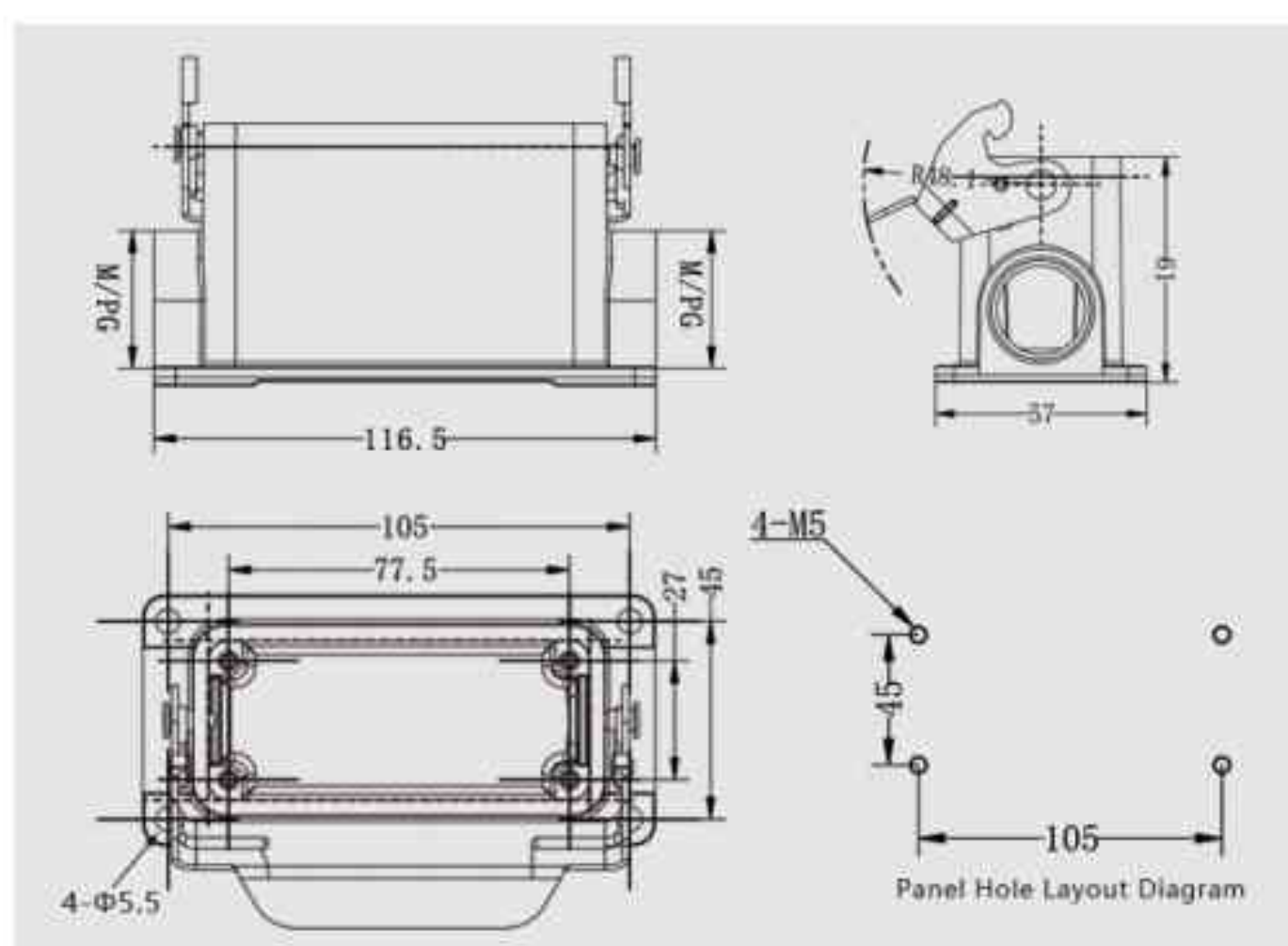
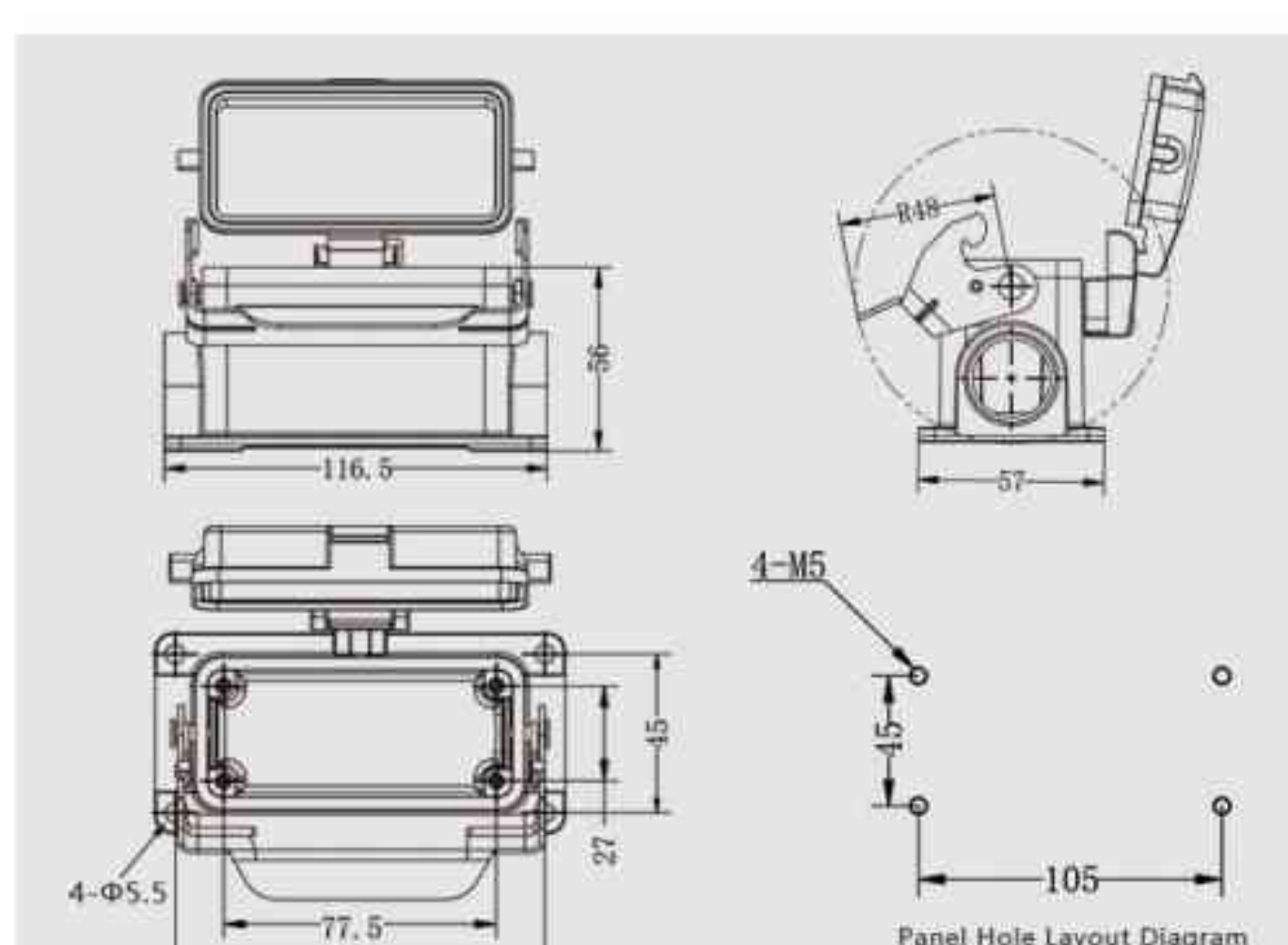
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry 	M20	H16B-SO/P-2L-M20	2 016 324 20 120		
	M25	H16B-SO/P-2L-M25	2 016 324 20 125		
	M32	H16B-SO/P-2L-M32	2 016 324 20 132		
	PG13.5	H16B-SO/P-2L-PG13.5	2 016 324 20 113		
	PG16	H16B-SO/P-2L-PG16	2 016 324 20 116		
	PG21	H16B-SO/P-2L-PG21	2 016 324 20 121		
Hoods, side entry, high construction 	M20	H16B-SOH/P-2L-M20	2 016 334 20 120		
	M25	H16B-SOH/P-2L-M25	2 016 334 20 125		
	M32	H16B-SOH/P-2L-M32	2 016 334 20 132		
	M40	H16B-SOH/P-2L-M40	2 016 334 20 140		
	PG13.5	H16B-SOH/P-2L-PG13.5	2 016 334 20 113		
	PG16	H16B-SOH/P-2L-PG16	2 016 334 20 116		
	PG21	H16B-SOH/P-2L-PG21	2 016 334 20 121		
	PG29	H16B-SOH/P-2L-PG29	2 016 334 20 129		
Hoods, top entry 	M20	H16B-TO/P-2L-M20	2 016 323 20 120		
	M25	H16B-TO/P-2L-M25	2 016 323 20 125		
	M32	H16B-TO/P-2L-M32	2 016 323 20 132		
	PG13.5	H16B-TO/P-2L-PG13.5	2 016 323 20 113		
	PG16	H16B-TO/P-2L-PG16	2 016 323 20 116		
	PG21	H16B-TO/P-2L-PG21	2 016 323 20 121		
Hoods, top entry, high construction 	M20	H16B-TOH/P-2L-M20	2 016 335 20 120		
	M25	H16B-TOH/P-2L-M25	2 016 335 20 125		
	M32	H16B-TOH/P-2L-M32	2 016 335 20 132		
	M40	H16B-TOH/P-2L-M40	2 016 335 20 140		
	PG13.5	H16B-TOH/P-2L-PG13.5	2 016 335 20 113		
	PG16	H16B-TOH/P-2L-PG16	2 016 335 20 116		
	PG21	H16B-TOH/P-2L-PG21	2 016 335 20 121		
	PG29	H16B-TOH/P-2L-PG29	2 016 335 20 129		

H16B

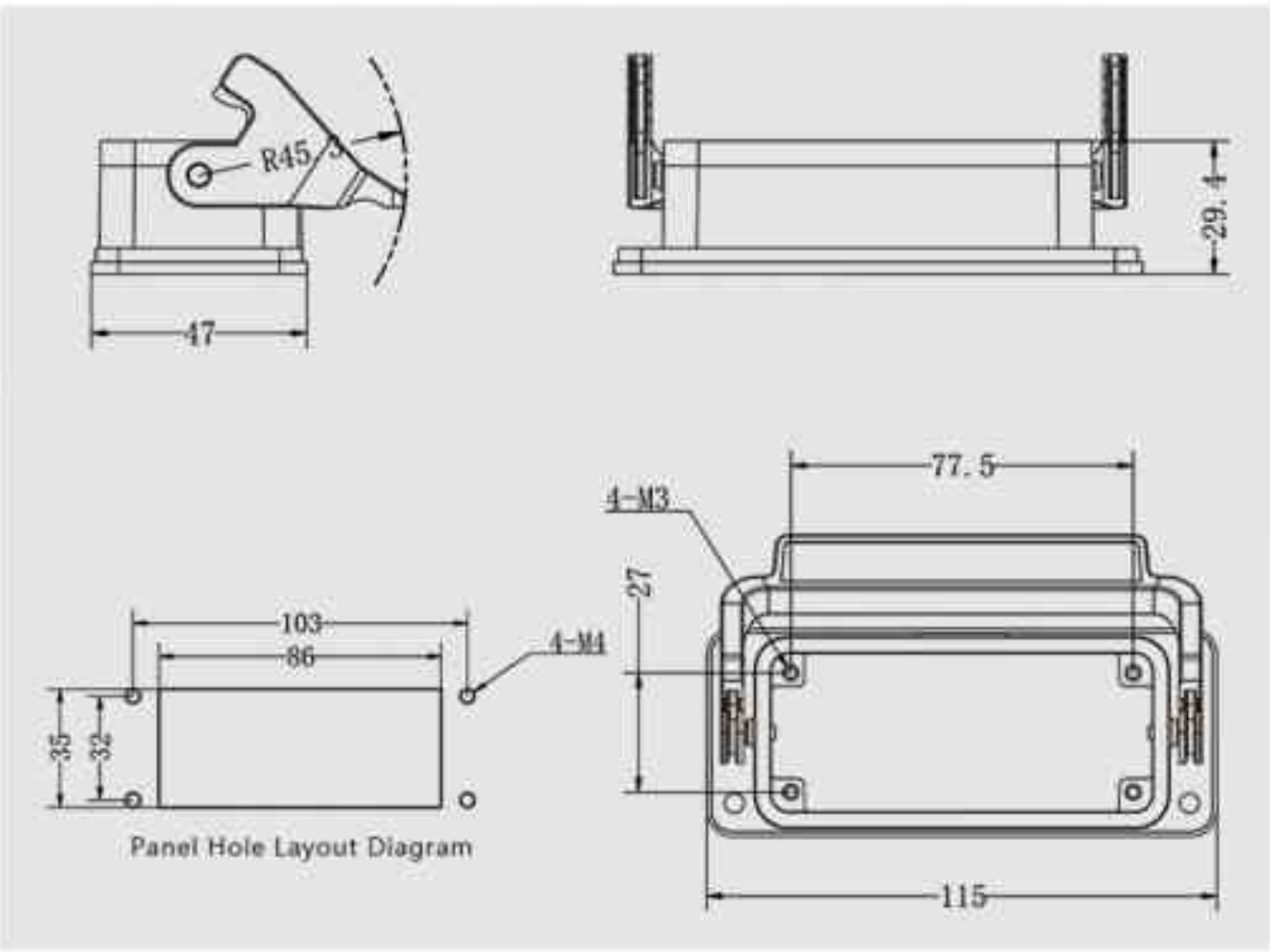
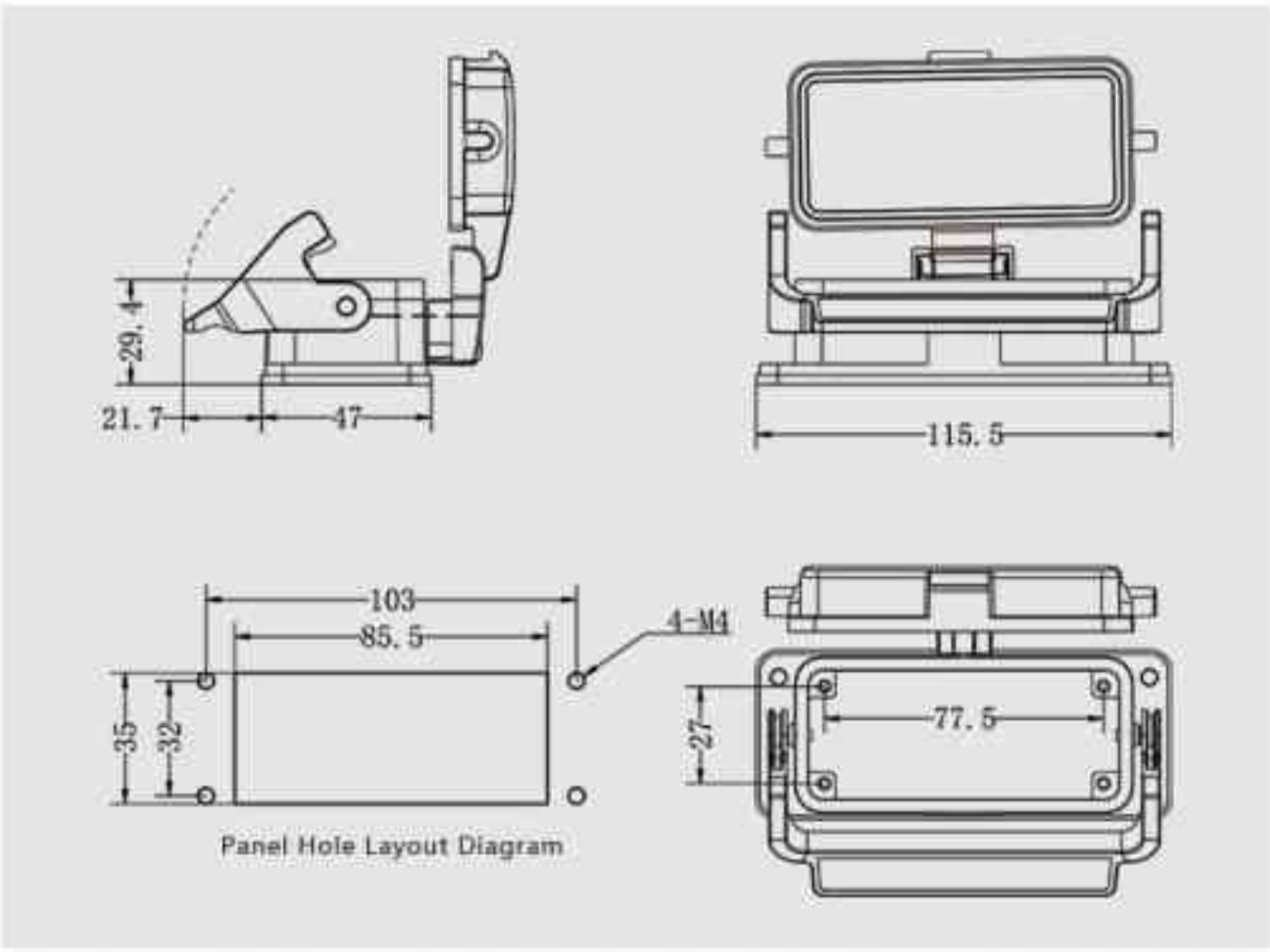
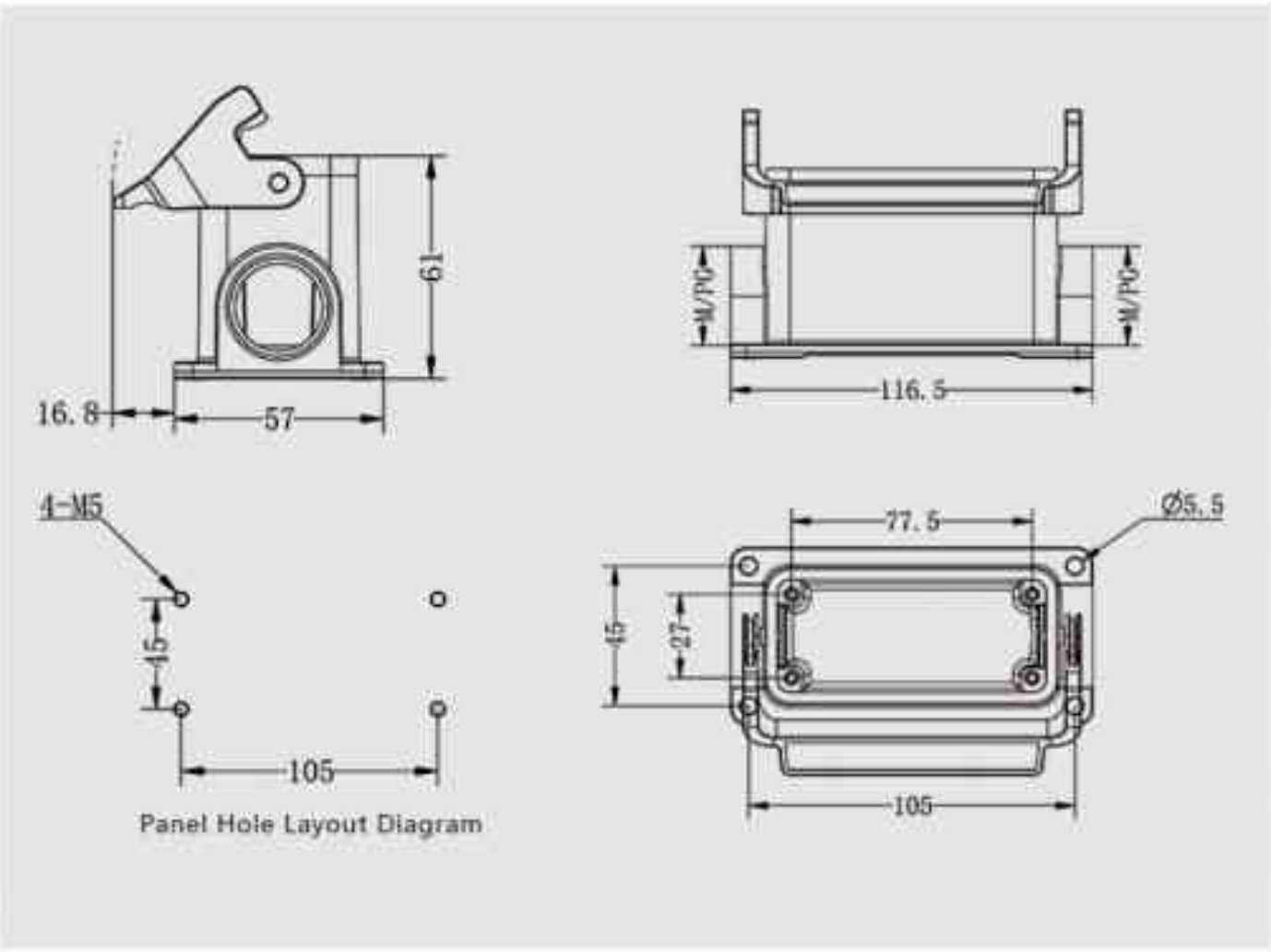
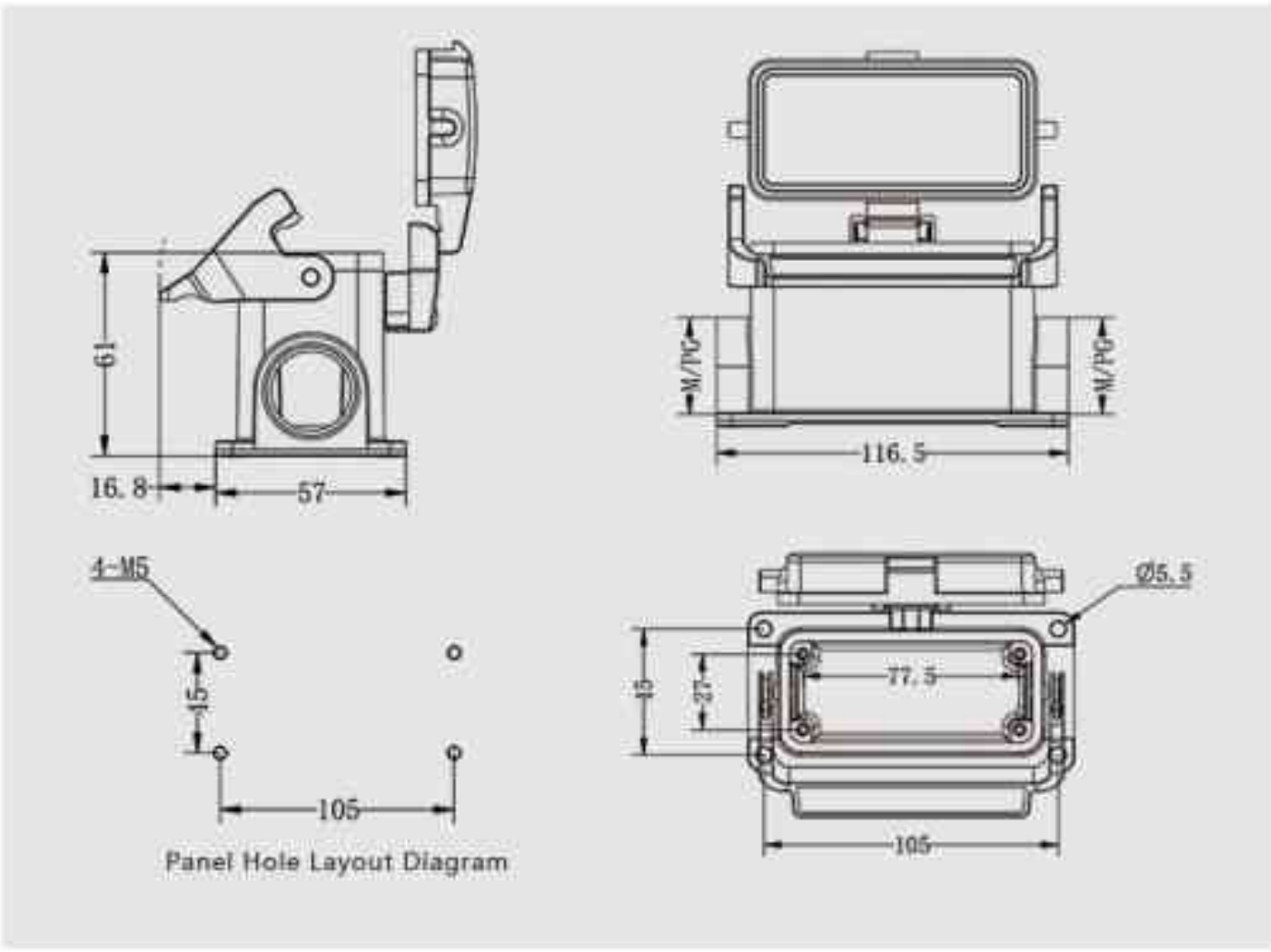
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H16B-HB-1L	2 016 306 10 000		
Housings, bulkhead mounting		H16B-HB-1L-CV	2 016 306 14 000		
Housings, surface mounting		M20 H16B-SM-1L-M20	2 016 307 10 120		
		M25 H16B-SM-1L-M25	2 016 307 10 125		
		PG13.5 H16B-SM-1L-PG13.5	2 016 307 10 113		
		PG16 H16B-SM-1L-PG16	2 016 307 10 116		
		PG21 H16B-SM-1L-PG21	2 016 307 10 121		
Housings, surface mounting		M20 H16B-SM-1L-CV-M20	2 016 307 14 120		
		M25 H16B-SM-1L-CV-M25	2 016 307 14 125		
		PG13.5 H16B-SM-1L-CV-PG13.5	2 016 307 14 113		
		PG16 H16B-SM-1L-CV-PG16	2 016 307 14 116		

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting		H16B-HB-1L/P	2 016 306 11 000		
Housings, surface mounting		H16B-HB-1L/P-CV	2 016 306 15 000		
Housings, bulkhead mounting	M25	H16B-SM-1L/P-M25	2 016 307 11 125		
	PG21	H16B-SM-1L/P-PG21	2 016 307 11 121		
	2M25	H16B-SM-1L/P-2M25	2 016 307 11 225		
	2PG21	H16B-SM-1L/P-2PG21	2 016 307 11 221		
Housings, surface mounting	M25	H16B-SM-1L/P-CV-M25	2 016 307 15 125		
	PG21	H16B-SM-1L/P-CV-PG21	2 016 307 15 121		
	2M25	H16B-SM-1L/P-CV-2M25	2 016 307 15 225		
	2PG21	H16B-SM-1L/P-CV-2PG21	2 016 307 15 221		

H16B

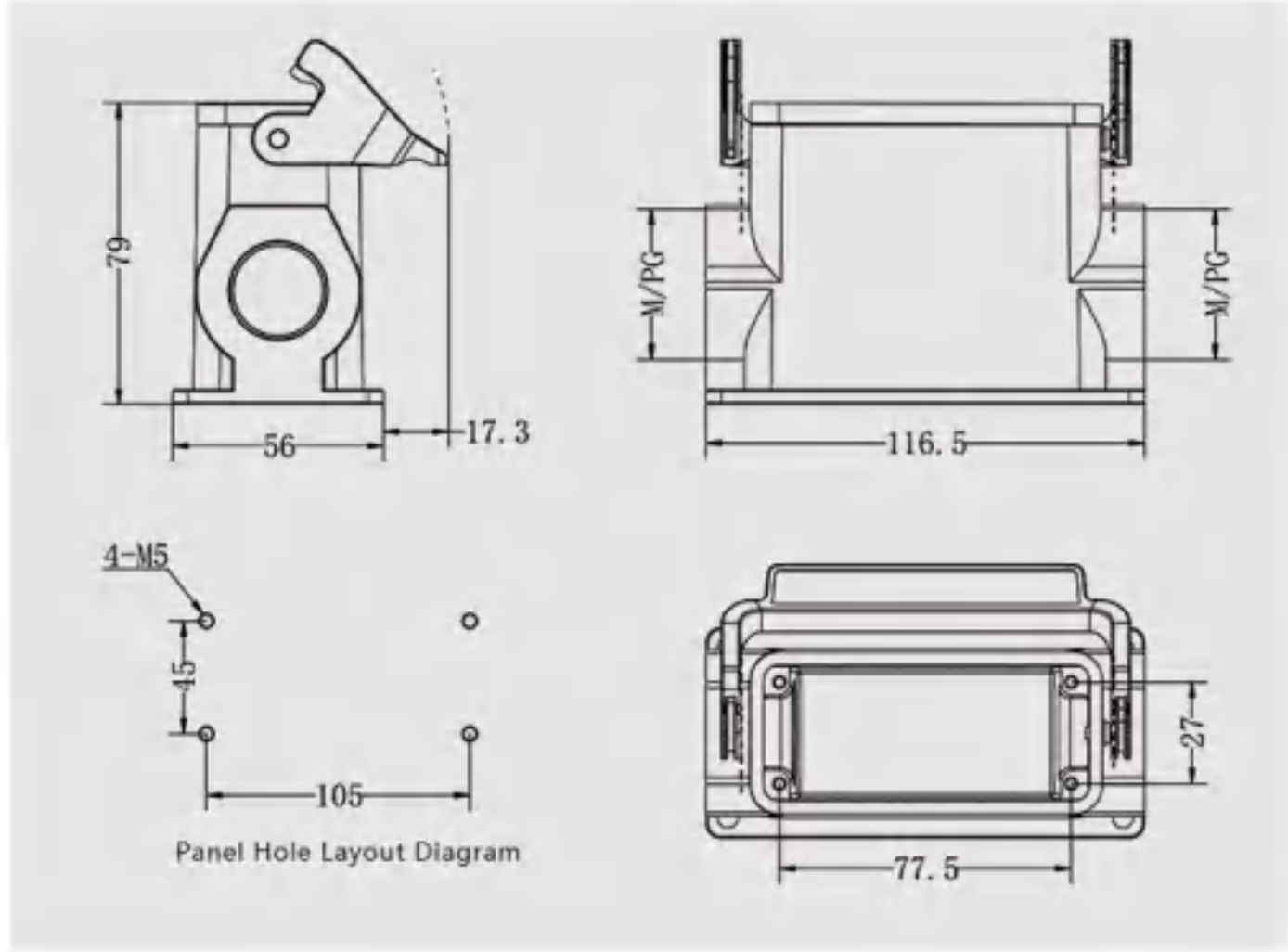
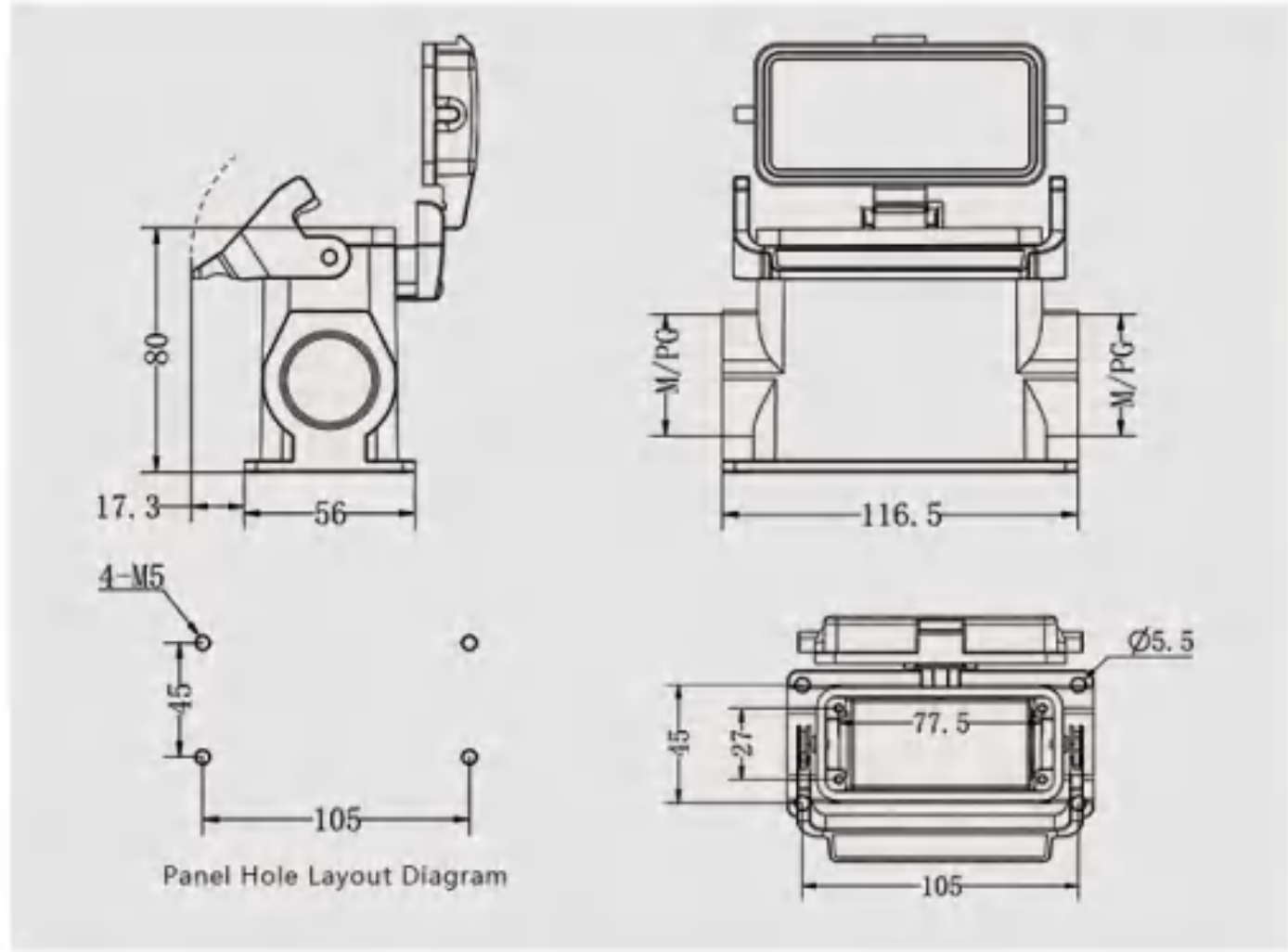
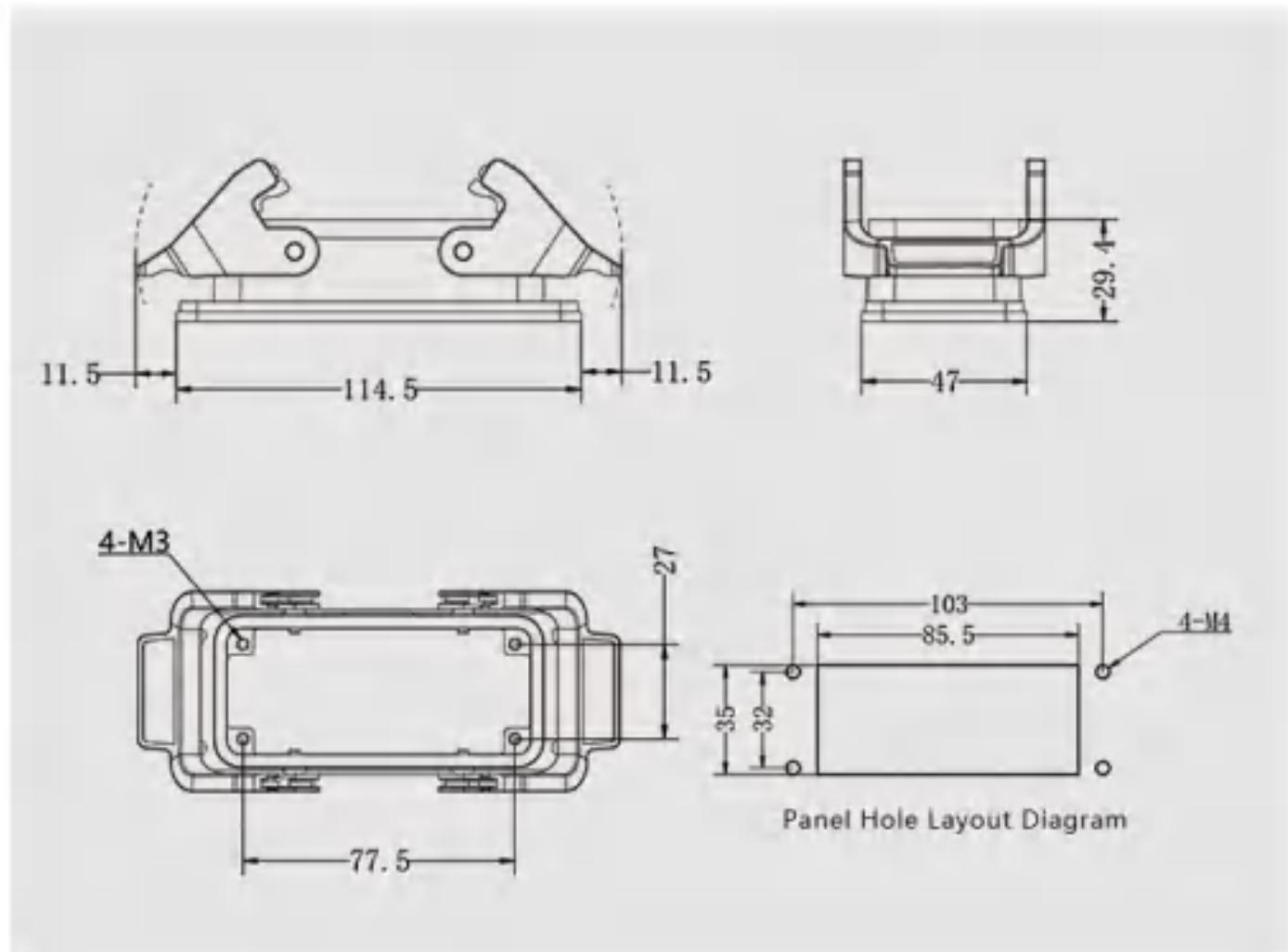
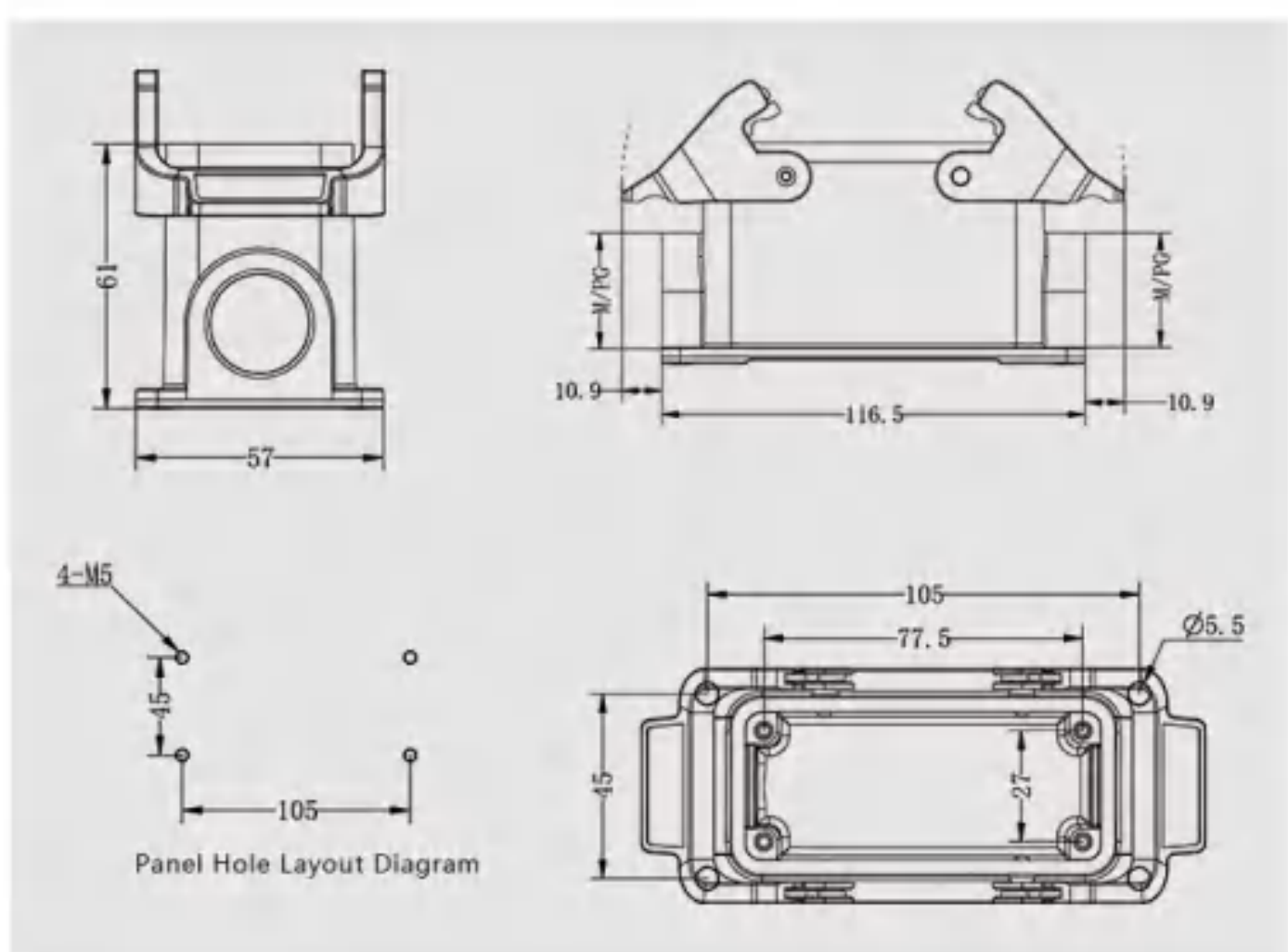
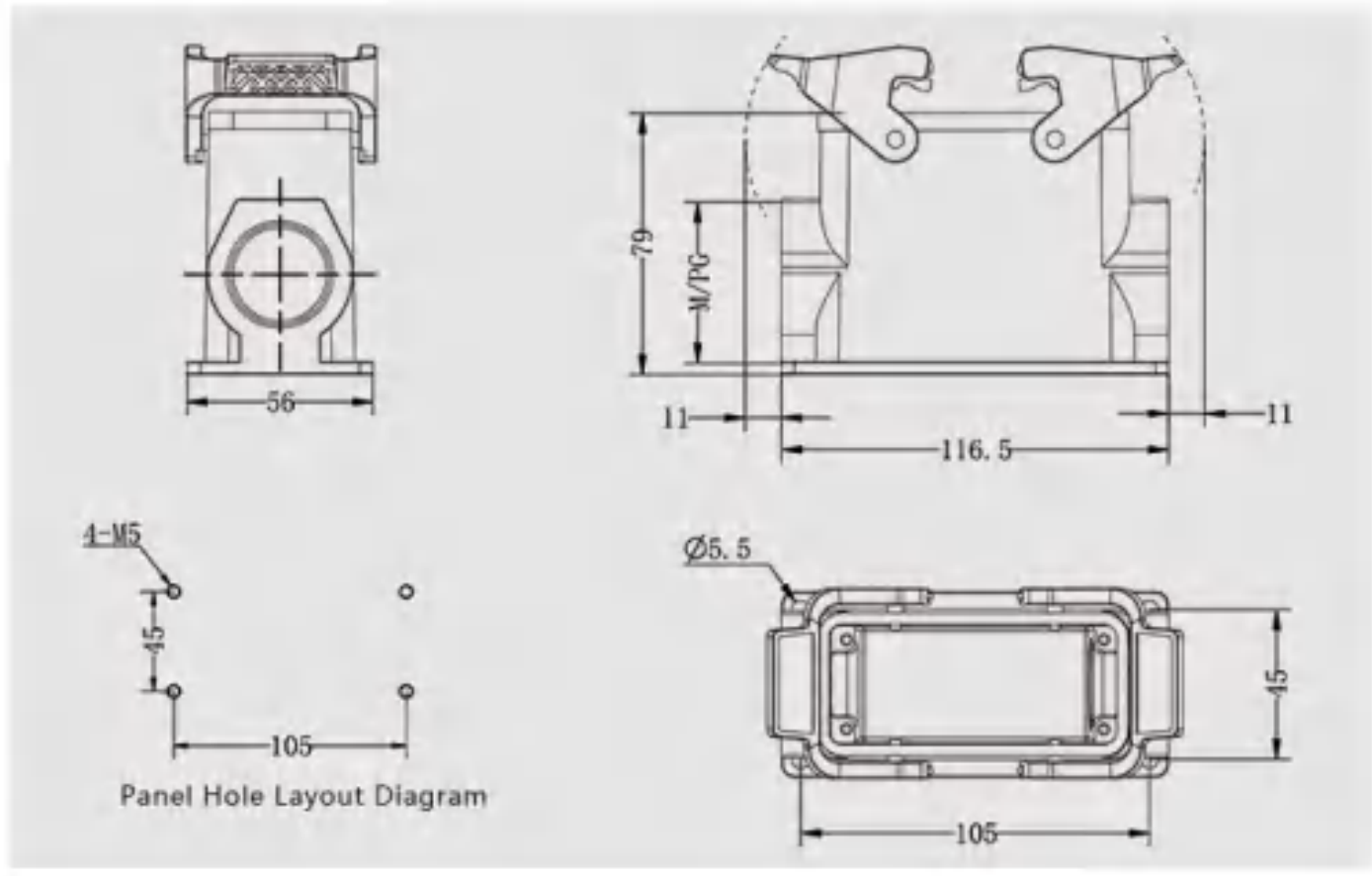
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting	M20	H16B-SMH-1L-M20	2 016 308 10 120		
	M25	H16B-SMH-1L-M25	2 016 308 10 125		
	M32	H16B-SMH-1L-M32	2 016 308 10 132		
	PG16	H16B-SMH-1L-PG16	2 016 308 10 116		
	PG21	H16B-SMH-1L-PG21	2 016 308 10 121		
	PG29	H16B-SMH-1L-PG29	2 016 308 10 129		
Housings, surface mounting	M20	H16B-SMH-1L-CV-M20	2 016 308 14 120		
	M25	H16B-SMH-1L-CV-M25	2 016 308 14 125		
	M32	H16B-SMH-1L-CV-M32	2 016 308 14 132		
	M40	H16B-SMH-1L-CV-M40	2 016 308 14 140		
	PG16	H16B-SMH-1L-CV-PG16	2 016 308 14 116		
	PG21	H16B-SMH-1L-CV-PG21	2 016 308 14 121		
	PG29	H16B-SMH-1L-CV-PG29	2 016 308 14 129		
Housings, bulkhead mounting	H16B-HB-2L		2 016 306 20 000		
Housings, surface mounting	M20	H16B-SM-2L-M20	2 016 307 20 120		
	M25	H16B-SM-2L-M25	2 016 307 20 125		
	M32	H16B-SM-2L-M32	2 016 307 20 132		
	PG16	H16B-SM-2L-PG16	2 016 307 20 116		
	PG21	H16B-SM-2L-PG21	2 016 307 20 121		
	2M20	H16B-SM-2L-2M20	2 016 307 20 220		
	2M25	H16B-SM-2L-2M25	2 016 307 20 225		
	2PG21	H16B-SM-2L-2PG21	2 016 307 20 221		
Housings, surface mounting	M25	H16B-SMH-2L-M25	2 016 308 20 125		
	M32	H16B-SMH-2L-M32	2 016 308 20 132		
	M40	H16B-SMH-2L-M40	2 016 308 20 140		
	PG21	H16B-SMH-2L-PG21	2 016 308 20 121		
	PG29	H16B-SMH-2L-PG29	2 016 308 20 129		
	2M25	H16B-SMH-2L-2M25	2 016 308 20 225		
	2M32	H16B-SMH-2L-2M32	2 016 308 20 232		
	2M40	H16B-SMH-2L-2M40	2 016 308 20 240		
	2PG21	H16B-SMH-2L-2PG21	2 016 308 20 221		
	2PG29	H16B-SMH-2L-2PG29	2 016 308 20 229		

Metal hoods

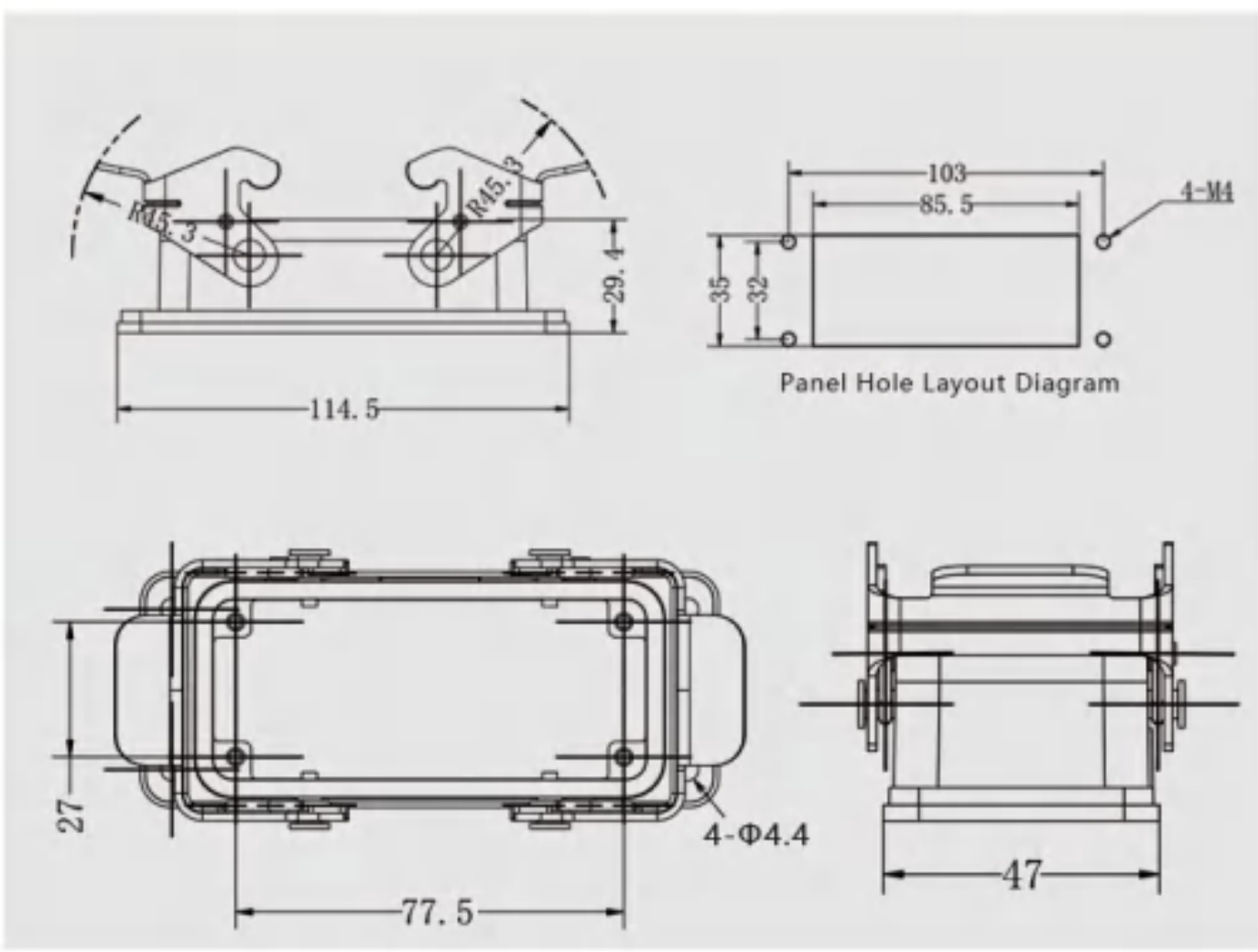
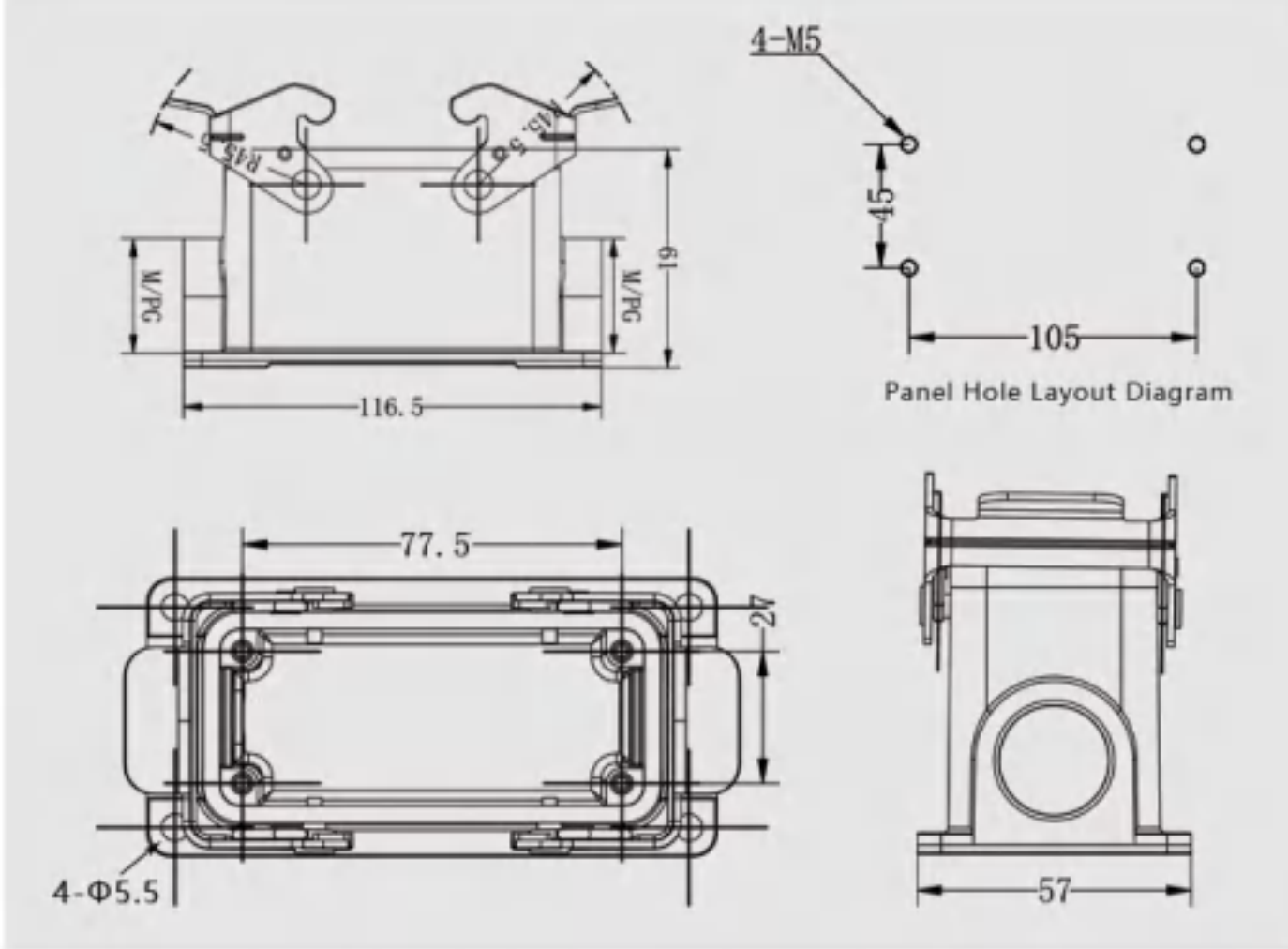
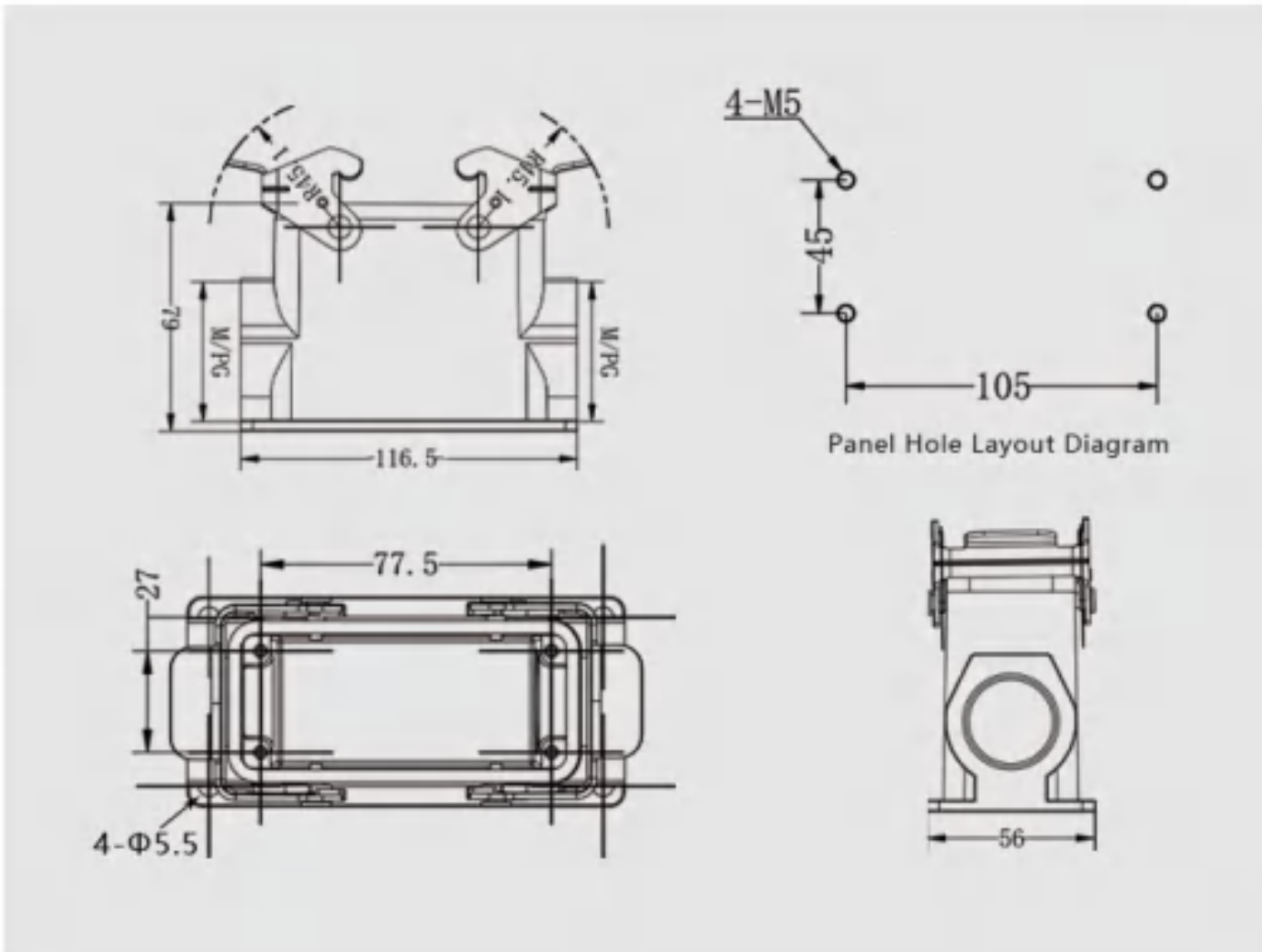
Degree of protection: IP65

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting 	M25	H16B-SMH-1L/P-M25	2 016 308 11 125		
	M32	H16B-SMH-1L/P-M32	2 016 308 11 132		
	PG21	H16B-SMH-1L/P-PG21	2 016 308 11 121		
	PG29	H16B-SMH-1L/P-PG29	2 016 308 11 129		
	2M25	H16B-SMH-1L/P-2M25	2 016 308 11 225		
	2M32	H16B-SMH-1L/P-2M32	2 016 308 11 232		
	2PG21	H16B-SMH-1L/P-2PG21	2 016 308 11 221		
	2PG29	H16B-SMH-1L/P-2PG29	2 016 308 11 229		
Housings, surface mounting 	M25	H16B-SMH-1L/P-CV-M25	2 016 308 15 125		
	M32	H16B-SMH-1L/P-CV-M32	2 016 308 15 132		
	PG21	H16B-SMH-1L/P-CV-PG21	2 016 308 15 121		
	PG29	H16B-SMH-1L/P-CV-PG29	2 016 308 15 129		
	2M25	H16B-SMH-1L/P-CV-2M25	2 016 308 15 225		
	2M32	H16B-SMH-1L/P-CV-2M32	2 016 308 15 232		
	2PG21	H16B-SMH-1L/P-CV-2PG21	2 016 308 15 221		
	2PG29	H16B-SMH-1L/P-CV-2PG29	2 016 308 15 229		
Housings, bulkhead mounting 	H16B-HB-2L/P		2 016 306 21 000		
Housings, surface mounting 	M25	H16B-SM-2L/P-M25	2 016 307 21 125		
	PG21	H16B-SM-2L/P-PG21	2 016 307 21 121		
	2M25	H16B-SM-2L/P-2M25	2 016 307 21 225		
	2PG21	H16B-SM-2L/P-2PG21	2 016 307 21 221		
Housings, surface mounting 	M25	H16B-SMH-2L/P-M25	2 016 308 21 125		
	M32	H16B-SMH-2L/P-M32	2 016 308 21 132		
	PG29	H16B-SMH-2L/P-PG29	2 016 308 21 129		
	2M25	H16B-SMH-2L/P-2M25	2 016 308 21 225		
	2M32	H16B-SMH-2L/P-2M32	2 016 308 21 232		
	2PG21	H16B-SMH-2L/P-2PG21	2 016 308 21 221		
	2PG29	H16B-SMH-2L/P-2PG29	2 016 308 21 229		

H16B

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H16B-HB-2L/S	2 016 306 22 000		
Housings, surface mounting		M20 H16B-SM-2L/S-M20 M25 H16B-SM-2L/S-M25 PG16 H16B-SM-2L/S-PG16 PG21 H16B-SM-2L/S-PG21 2M20 H16B-SM-2L/S-2M20 2M25 H16B-SM-2L/S-2M25 2PG21 H16B-SM-2L/S-2PG21	2 016 307 22 120 2 016 307 22 125 2 016 307 22 116 2 016 307 22 121 2 016 307 22 220 2 016 307 22 225 2 016 307 22 221		
Housings, surface mounting		M25 H16B-SMH-2L/S-M25 M32 H16B-SMH-2L/S-M32 M40 H16B-SMH-2L/S-M40 PG21 H16B-SMH-2L/S-PG21 PG29 H16B-SMH-2L/S-PG29 2M25 H16B-SMH-2L/S-2M25 2M32 H16B-SMH-2L/S-2M32 2M40 H16B-SMH-2L/S-2M40 2PG21 H16B-SMH-2L/S-2PG21 2PG29 H16B-SMH-2L/S-2PG29	2 016 308 22 125 2 016 308 22 132 2 016 308 22 140 2 016 308 22 121 2 016 308 22 129 2 016 308 22 225 2 016 308 22 232 2 016 308 22 240 2 016 308 22 221 2 016 308 22 229		

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H16B-HB-4B	2 016 306 04 000		
Housings, bulkhead mounting		H16B-HB-4B-CV	2 016 306 05 000		
Housings, surface mounting	M20	H16B-SM-4B-M20	2 016 307 04 120		
	M25	H16B-SM-4B-M25	2 016 307 04 125		
	PG13.5	H16B-SM-4B-PG13.5	2 016 307 04 113		
	PG16	H16B-SM-4B-PG16	2 016 307 04 116		
	PG21	H16B-SM-4B-PG21	2 016 307 04 121		
Housings, surface mounting	M20	H16B-SM-4B-CV-M20	2 016 307 05 120		
	M25	H16B-SM-4B-CV-M25	2 016 307 05 125		
	PG13.5	H16B-SM-4B-CV-PG13.5	2 016 307 05 113		
	PG16	H16B-SM-4B-CV-PG16	2 016 307 05 116		
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H16B

Degree of protection: IP65

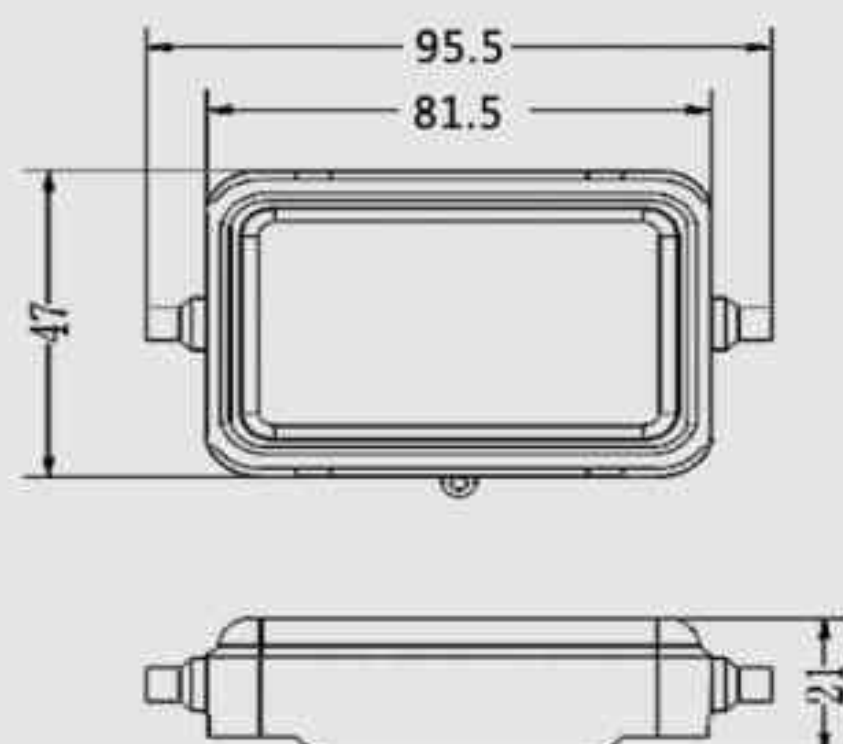
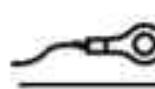
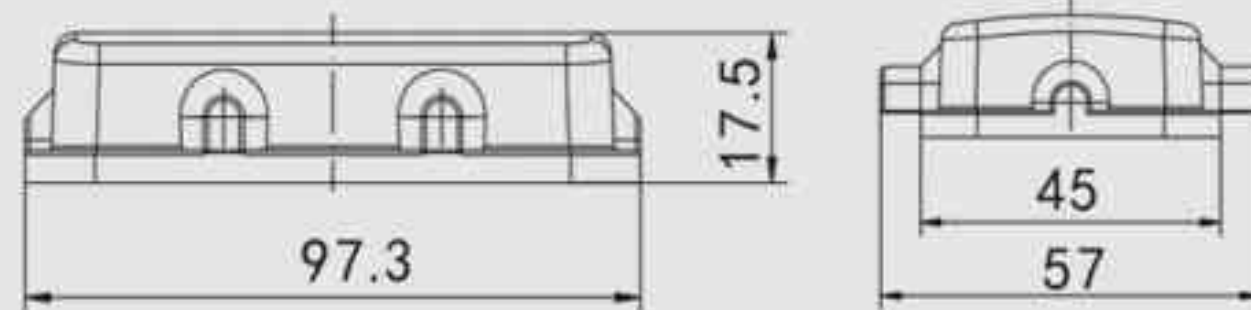
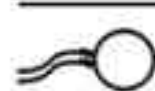
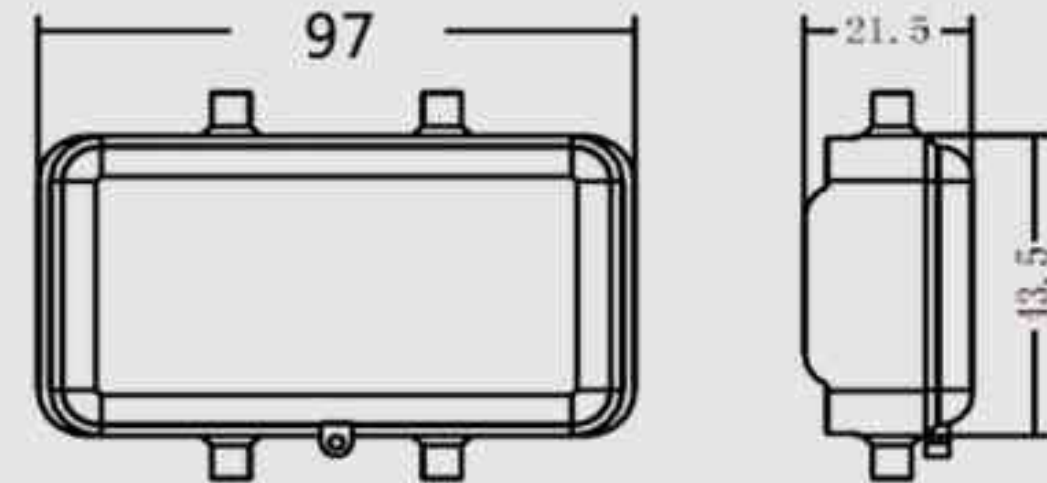
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting	M20	H16B-CTT/P-1L-M20	2 016 326 10 120		
	M25	H16B-CTT/P-1L-M25	2 016 326 10 125		
	M32	H16B-CTT/P-1L-M32	2 016 326 10 132		
	PG13.5	H16B-CTT/P-1L-PG13.5	2 016 326 10 113		
	PG16	H16B-CTT/P-1L-PG16	2 016 326 10 116		
	PG21	H16B-CTT/P-1L-PG21	2 016 326 10 121		
Housings, cable to cable	M20	H16B-CTTH/P-1L-M20	2 016 348 10 120		
	M25	H16B-CTTH/P-1L-M25	2 016 348 10 125		
	M32	H16B-CTTH/P-1L-M32	2 016 348 10 132		
	M40	H16B-CTTH/P-1L-M40	2 016 348 10 140		
	PG13.5	H16B-CTTH/P-1L-PG13.5	2 016 348 10 113		
	PG16	H16B-CTTH/P-1L-PG16	2 016 348 10 116		
Housings, cable to cable	PG21	H16B-CTTH/P-1L-PG21	2 016 348 10 121		
	PG29	H16B-CTTH/P-1L-PG29	2 016 348 10 129		
Housings, cable to cable	M20	H16B-CTT/P-2L-M20	2 016 326 20 120		
	M25	H16B-CTT/P-2L-M25	2 016 326 20 125		
	M32	H16B-CTT/P-2L-M32	2 016 326 20 132		
	PG13.5	H16B-CTT/P-2L-PG13.5	2 016 326 20 113		
	PG16	H16B-CTT/P-2L-PG16	2 016 326 20 116		
	PG21	H16B-CTT/P-2L-PG21	2 016 326 20 121		
Housings, cable to cable	PG29	H16B-CTT/P-2L-PG29	2 016 326 20 129		
	M20	H16B-CTTH/P-2L-M20	2 016 348 20 120		
	M25	H16B-CTTH/P-2L-M25	2 016 348 20 125		
	M32	H16B-CTTH/P-2L-M32	2 016 348 20 132		
	M40	H16B-CTTH/P-2L-M40	2 016 348 20 140		
	PG16	H16B-CTTH/P-2L-PG16	2 016 348 20 116		
Housings, cable to cable	PG21	H16B-CTTH/P-2L-PG21	2 016 348 20 121		
	PG29	H16B-CTTH/P-2L-PG29	2 016 348 20 129		

H16B

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Protection covers 		H16B-CV-2B/1N	2 016 315 01 082		
		H16B-CV-2B/1N1	2 016 315 01 083		
		H16B-CV-2B/2N	2 016 315 01 084		
		H16B-CV-2B/2N1	2 016 315 01 085		
		H16B-CV-2B/1C	2 016 315 01 092		
		H16B-CV-2B/1C1	2 016 315 01 093		
		H16B-CV-2B/2C	2 016 315 01 094		
		H16B-CV-2B/2C1	2 016 315 01 095		
Protection covers 		H16B-CV-4B	2 016 315 04 000		
		H16B-CV-4B/N	2 016 315 04 080		
		H16B-CV-4B/N1	2 016 315 04 081		
		H16B-CV-4B/C	2 016 315 04 090		
		H16B-CV-4B/C1	2 016 315 04 091		
Protection covers 		H16B-CV-4B/1N	2 016 315 05 082		
		H16B-CV-4B/1N1	2 016 315 05 083		
		H16B-CV-4B/2N	2 016 315 05 084		
		H16B-CV-4B/2N1	2 016 315 05 085		
		H16B-CV-4B/1C	2 016 315 05 092		
		H16B-CV-4B/1C1	2 016 315 05 093		
		H16B-CV-4B/2C	2 016 315 05 094		
		H16B-CV-4B/2C1	2 016 315 05 095		

H16B

Note:  Nylon rope  Metal rope  Nylon rope end cap  Metal cable end fitting  Sealing ring

Metal hoods

Protection covers



Protection covers

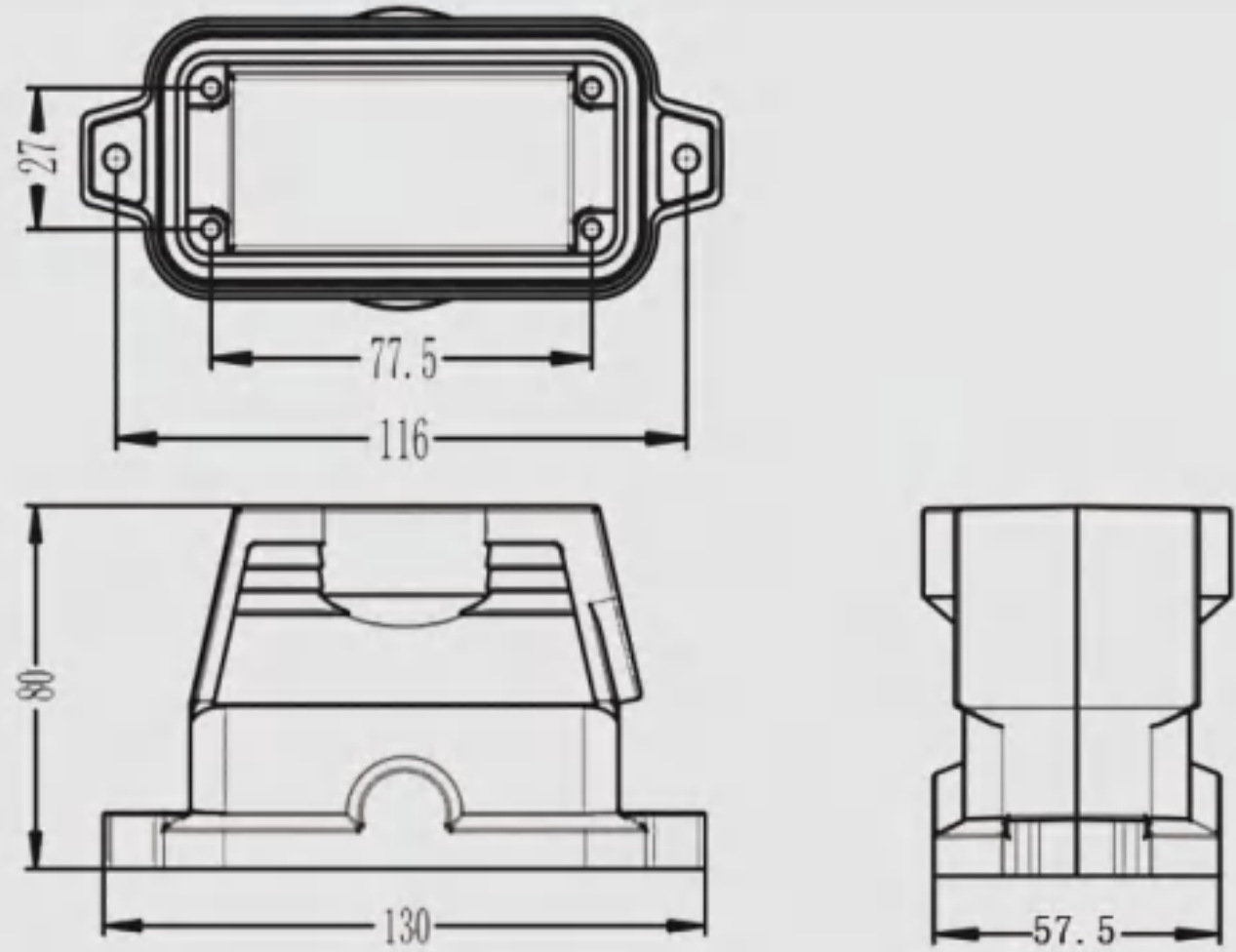
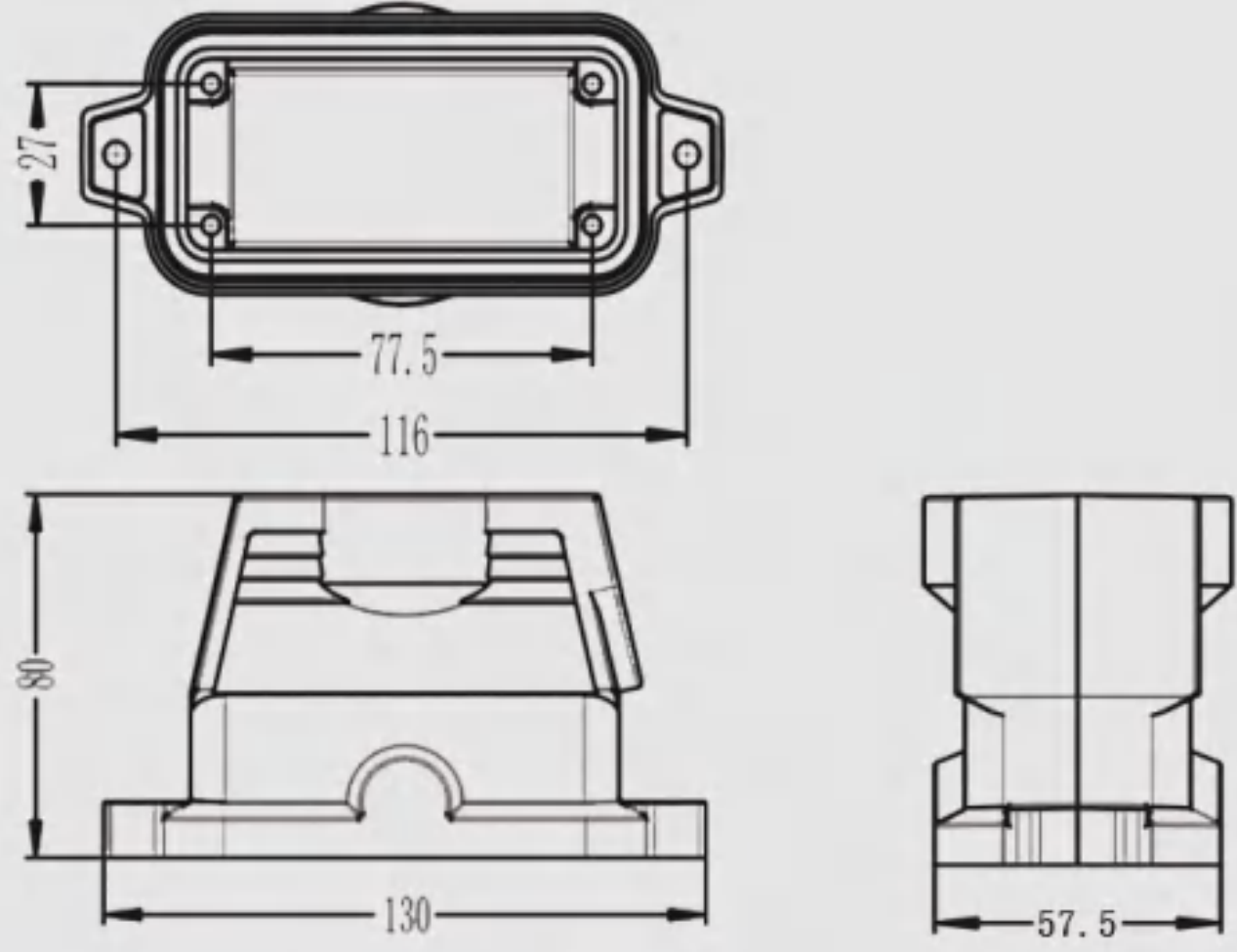
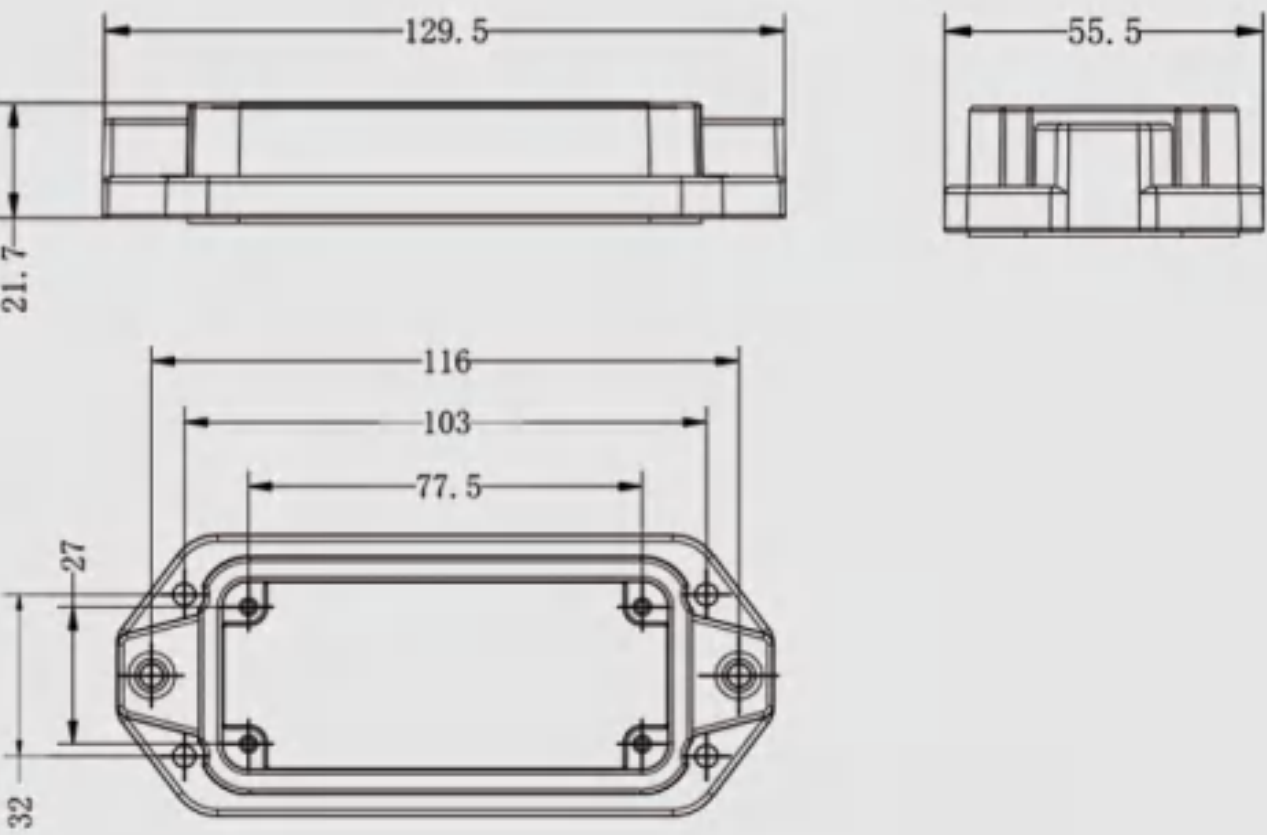
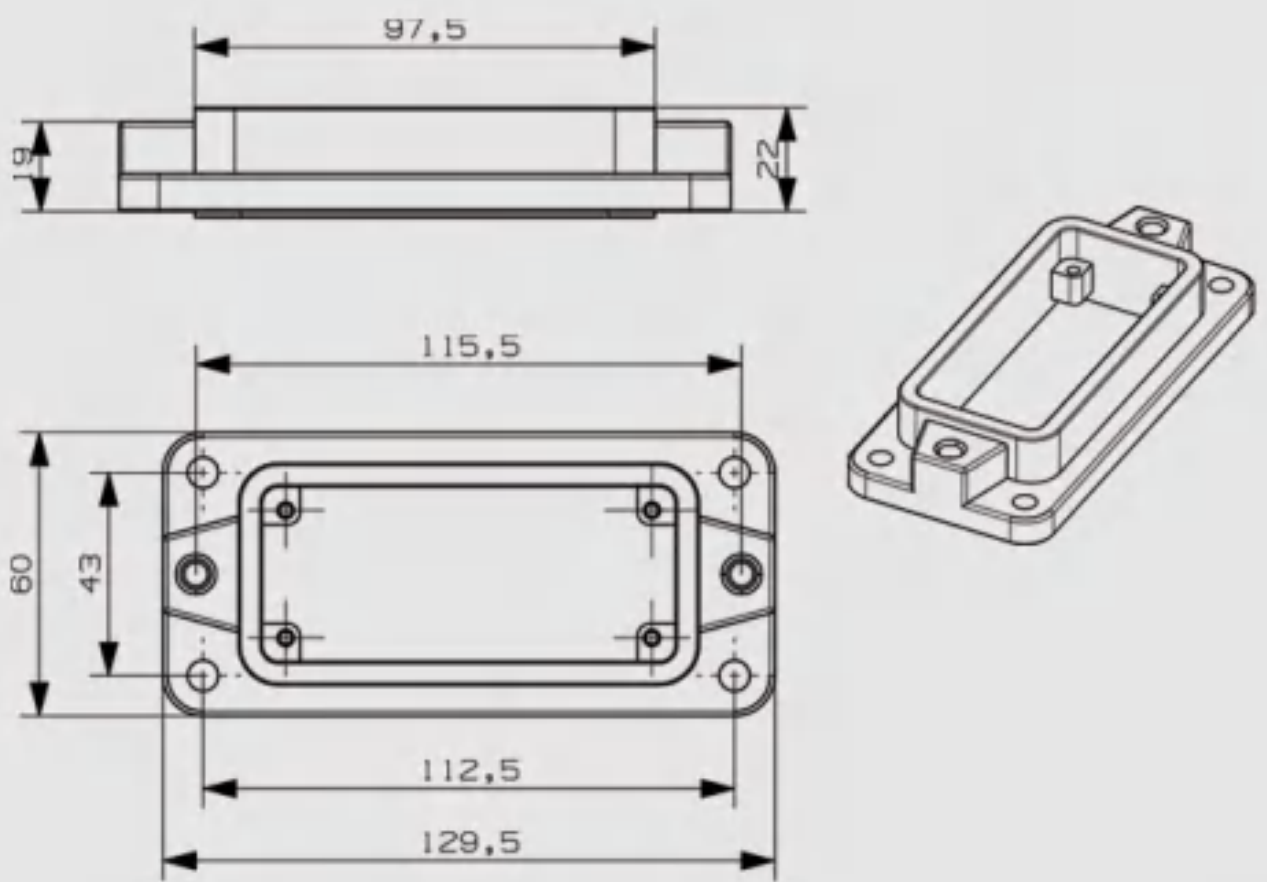
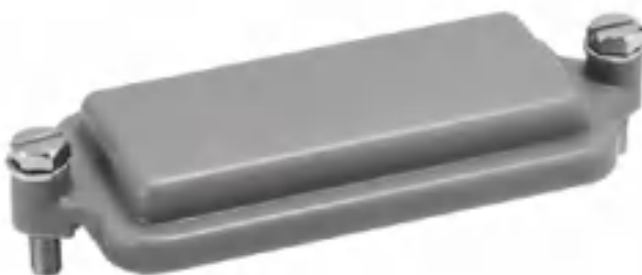
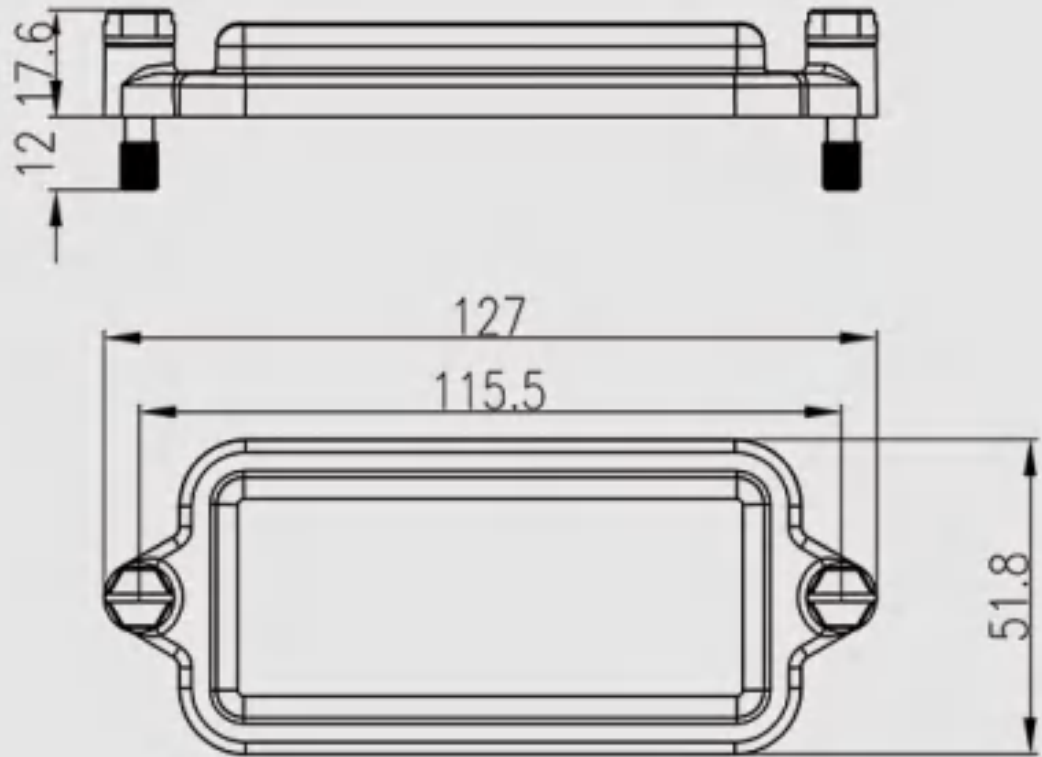


Protection covers



Degree of protection: IP68

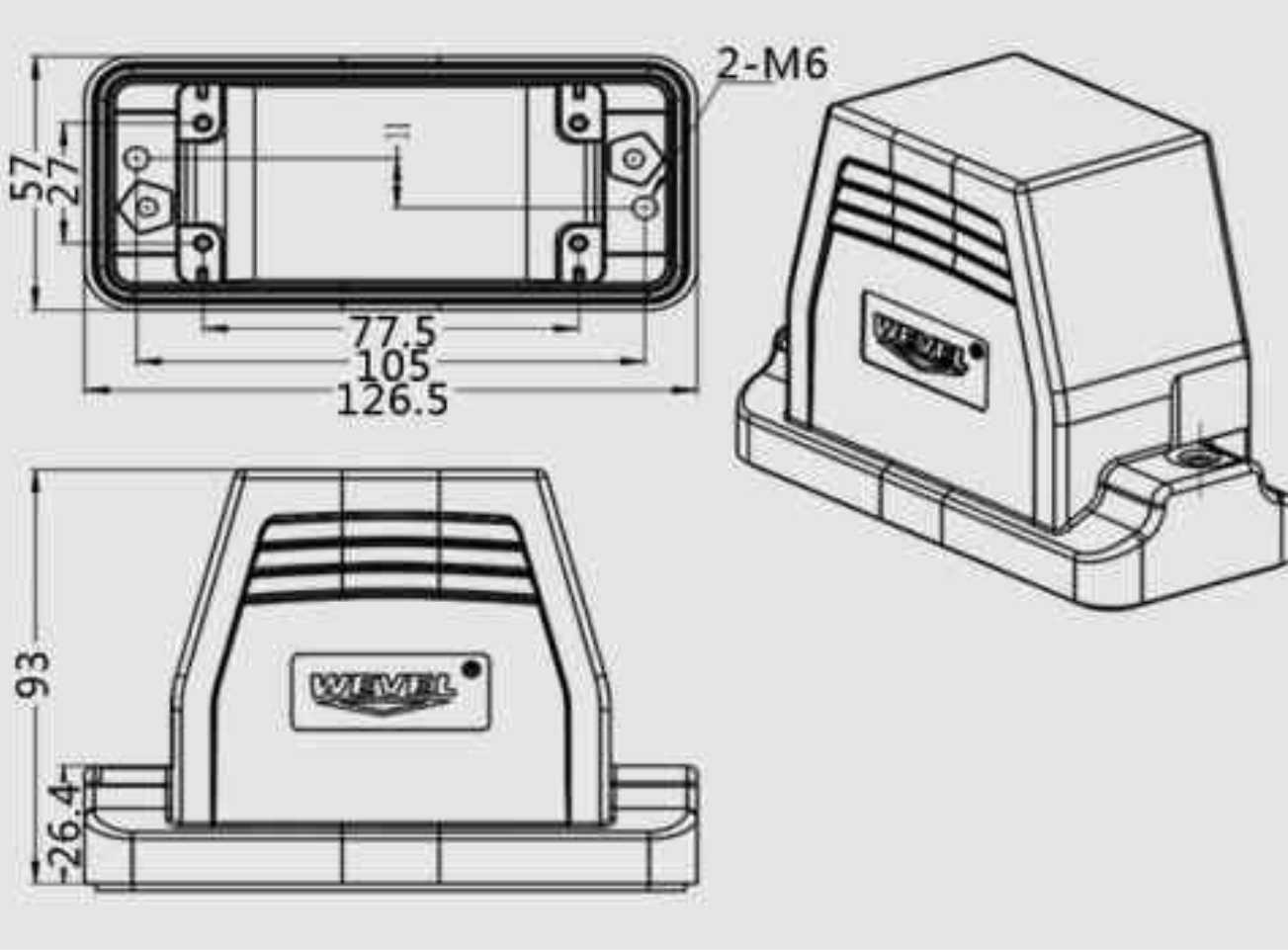
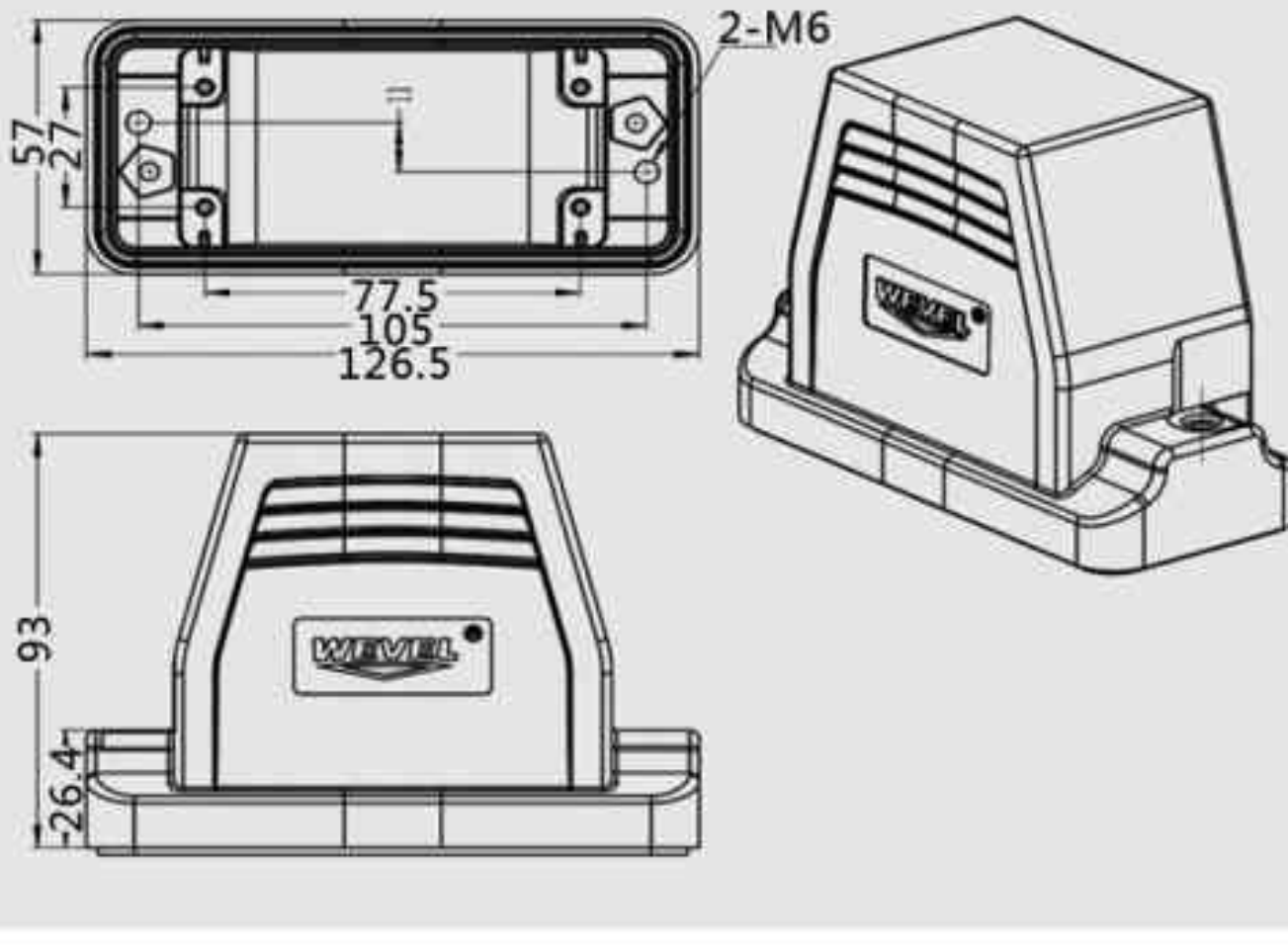
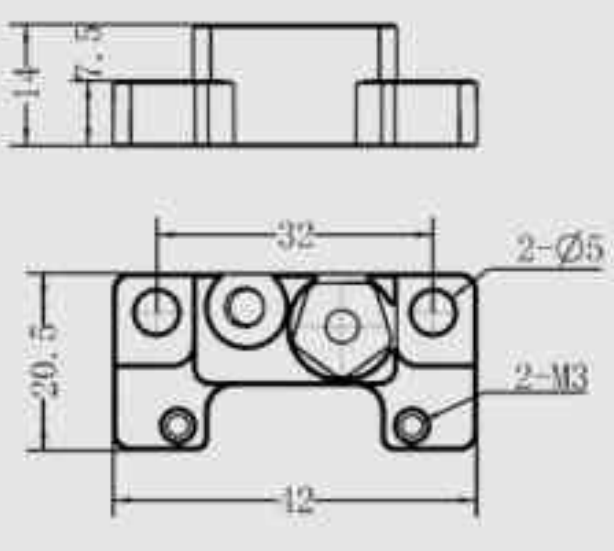
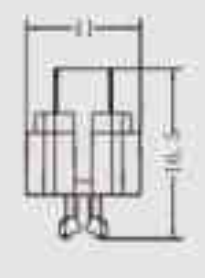
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction 	M20	H16BPR-SOH-2T-M20	2 016 304 40 120		
	M25	H16BPR-SOH-2T-M25	2 016 304 40 125		
	M32	H16BPR-SOH-2T-M32	2 016 304 40 132		
	M40	H16BPR-SOH-2T-M40	2 016 304 40 140		
	PG16	H16BPR-SOH-2T-PG16	2 016 304 40 116		
	PG21	H16BPR-SOH-2T-PG21	2 016 304 40 121		
	PG29	H16BPR-SOH-2T-PG29	2 016 304 40 129		
Hoods, top entry, high construction 	M20	H16BPR-TOH-2T-M20	2 016 303 40 120		
	M25	H16BPR-TOH-2T-M25	2 016 303 40 125		
	M32	H16BPR-TOH-2T-M32	2 016 303 40 132		
	M40	H16BPR-TOH-2T-M40	2 016 303 40 140		
	PG16	H16BPR-TOH-2T-PG16	2 016 303 40 116		
	PG21	H16BPR-TOH-2T-PG21	2 016 303 40 121		
	PG29	H16BPR-TOH-2T-PG29	2 016 303 40 129		
Housings, bulkhead mounting 	H16BPR-HB-2T		2 016 306 40 000		
Housings, bulkhead mounting  NEW	H16BPR-HB/H-2T		2 016 496 40 000		
Housings, bulkhead mounting 	H16BPR-CV-2T		2 016 496 40 000		

H16B

Degree of protection: IP68

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction 	M20	H16BPR-SOH-2T/C-M20	2 016 304 42 120		
	M25	H16BPR-SOH-2T/C-M25	2 016 304 42 125		
	M32	H16BPR-SOH-2T/C-M32	2 016 304 42 132		
	M40	H16BPR-SOH-2T/C-M40	2 016 304 42 140		
	PG16	H16BPR-SOH-2T/C-PG16	2 016 304 42 116		
	PG21	H16BPR-SOH-2T/C-PG21	2 016 304 42 121		
	PG29	H16BPR-SOH-2T/C-PG29	2 016 304 42 129		
Hoods, top entry, high construction 	M20	H16BPR-TOH-2T/C-M20	2 016 303 42 120		
	M25	H16BPR-TOH-2T/C-M25	2 016 303 42 125		
	M32	H16BPR-TOH-2T/C-M32	2 016 303 42 132		
	M40	H16BPR-TOH-2T/C-M40	2 016 303 42 140		
	PG16	H16BPR-TOH-2T/C-PG16	2 016 303 42 116		
	PG21	H16BPR-TOH-2T/C-PG21	2 016 303 42 121		
	PG29	H16BPR-TOH-2T/C-PG29	2 016 303 42 129		
Fixed 	HB-2T/C		2 000 306 42 000		
Coding Element 	CODE-2T/C		3 000 091 00 200		

Degree of protection: IP68

Metal hoods

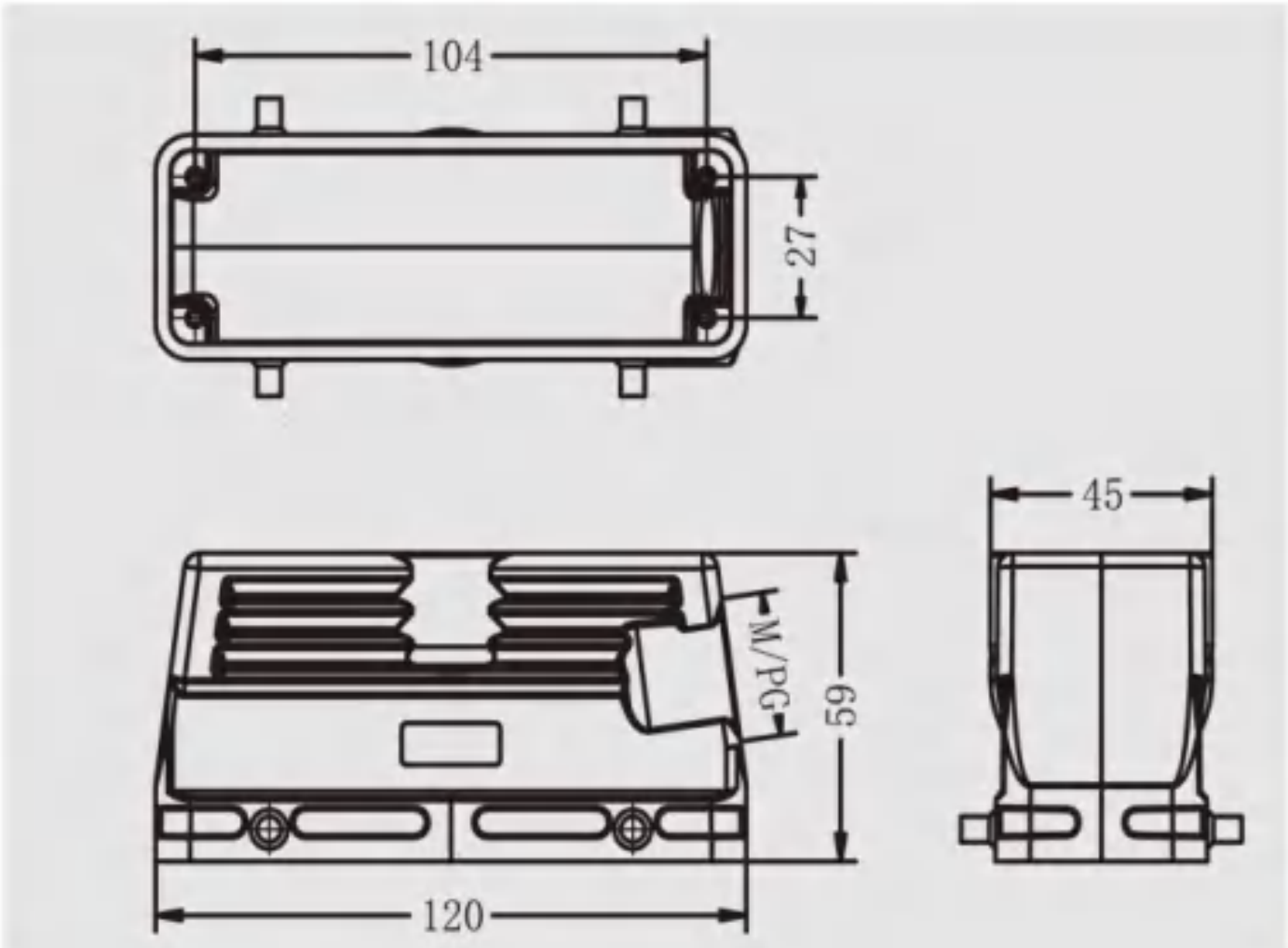
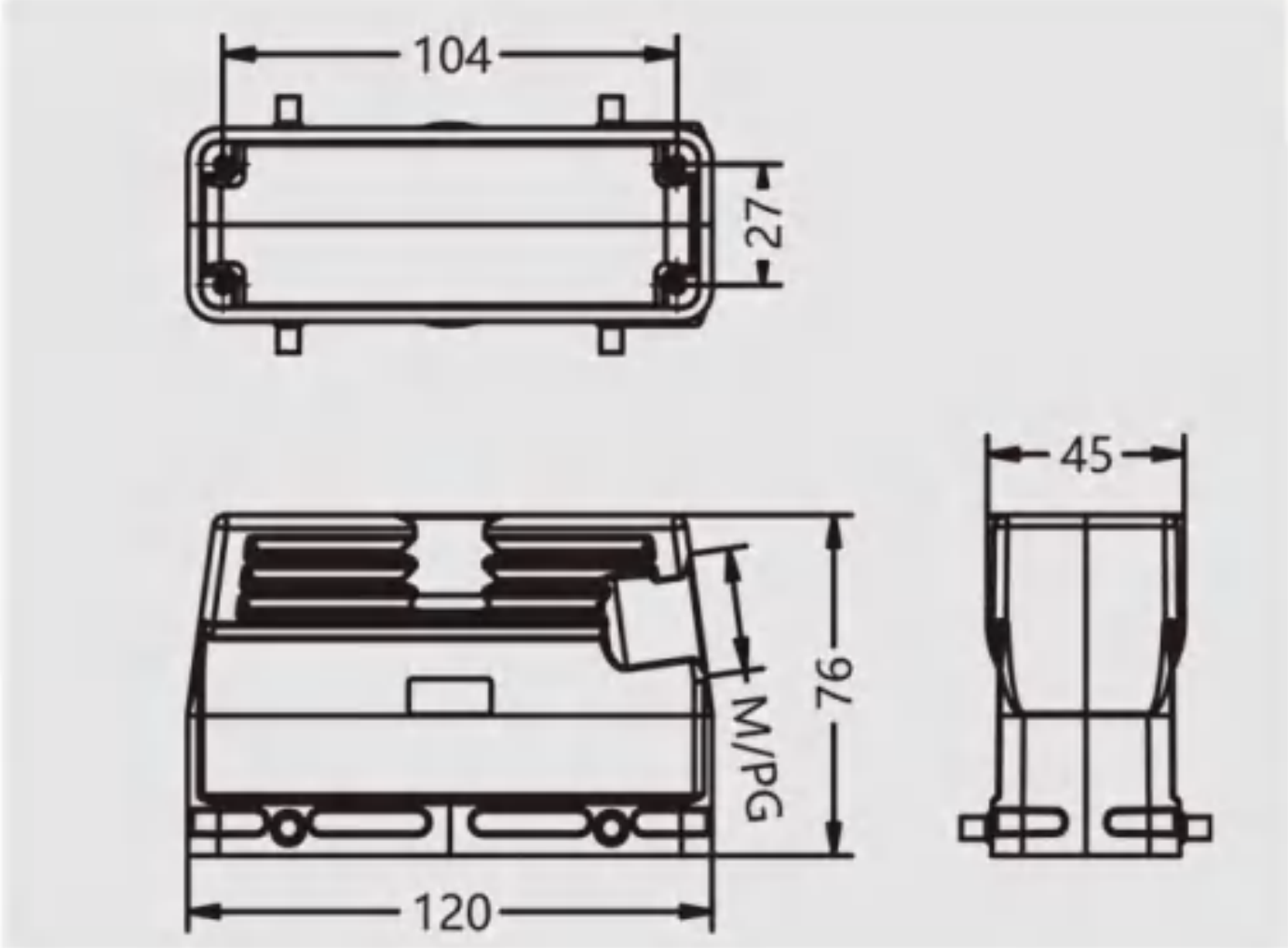
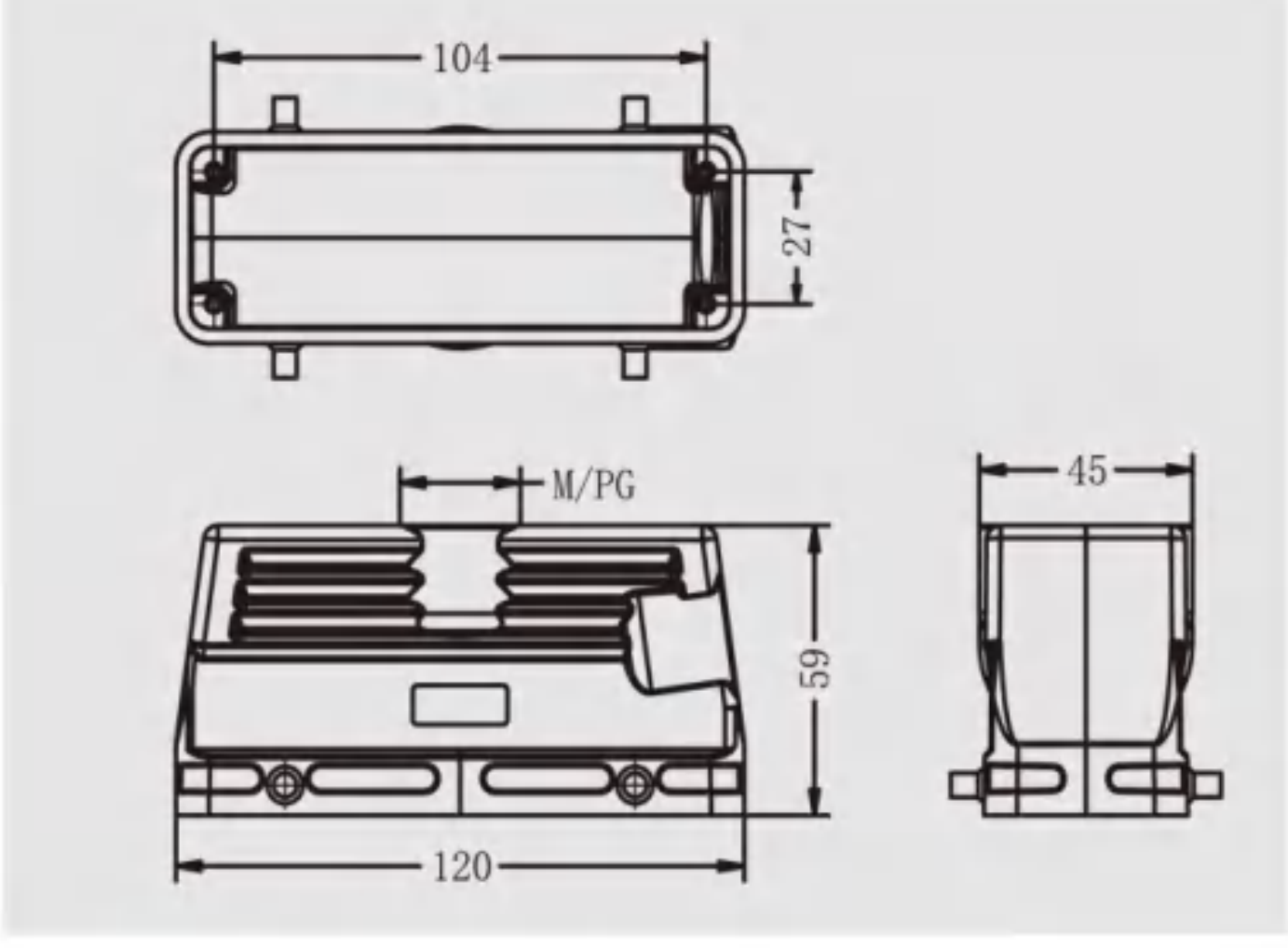
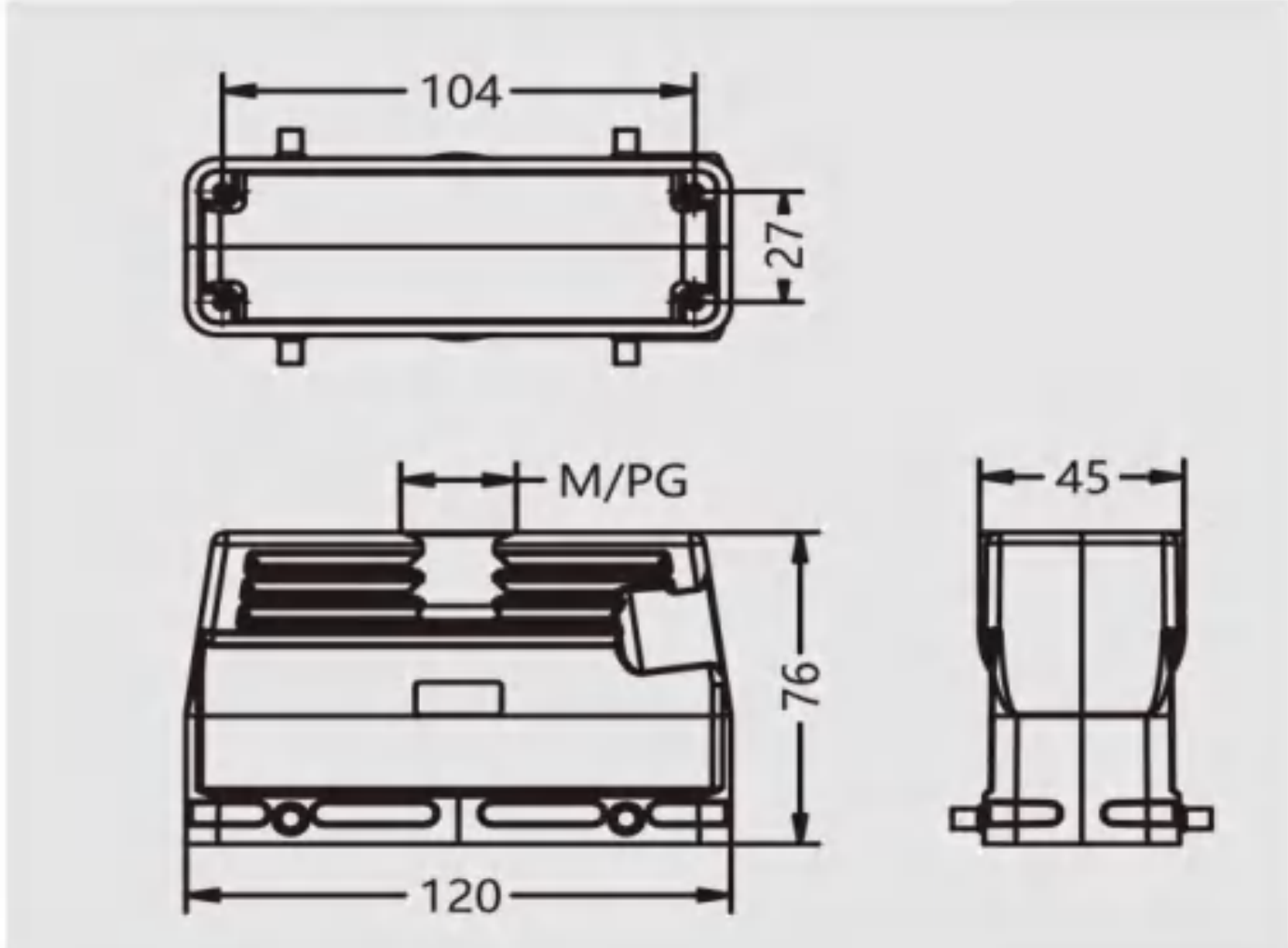
Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction	M20	H16BPR-SOH-2T/H-M20	2 016 304 41 120		
	M25	H16BPR-SOH-2T/H-M25	2 016 304 41 125		
	M32	H16BPR-SOH-2T/H-M32	2 016 304 41 132		
	M40	H16BPR-SOH-2T/H-M40	2 016 304 41 140		
	PG16	H16BPR-SOH-2T/H-PG16	2 016 304 41 116		
	PG21	H16BPR-SOH-2T/H-PG21	2 016 304 41 121		
	PG29	H16BPR-SOH-2T/H-PG29	2 016 304 41 129		
Hoods, top entry, high construction	M20	H16BPR-TOH-2T/H-M20	2 016 303 41 120		
	M25	H16BPR-TOH-2T/H-M25	2 016 303 41 125		
	M32	H16BPR-TOH-2T/H-M32	2 016 303 41 132		
	M40	H16BPR-TOH-2T/H-M40	2 016 303 41 140		
	PG16	H16BPR-TOH-2T/H-PG16	2 016 303 41 116		
	PG21	H16BPR-TOH-2T/H-PG21	2 016 303 41 121		
	PG29	H16BPR-TOH-2T/H-PG29	2 016 303 41 129		
Housings, bulkhead mounting	H16BPR-HB-2T/H		2 016 306 41 000		
Protection covers	H16BPR-MCV-2T/H/N		2 016 032 741 080		

H16B

H24B

Degree of protection: IP65

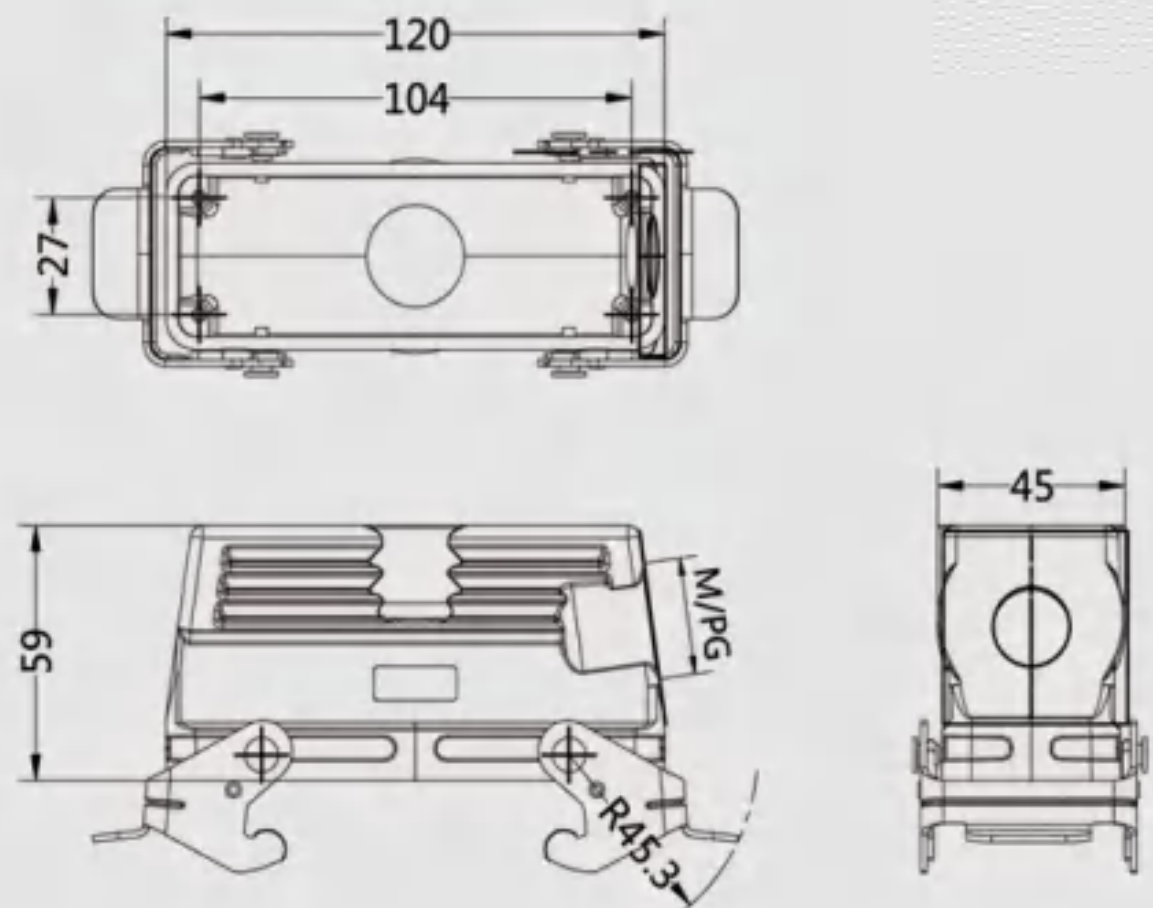
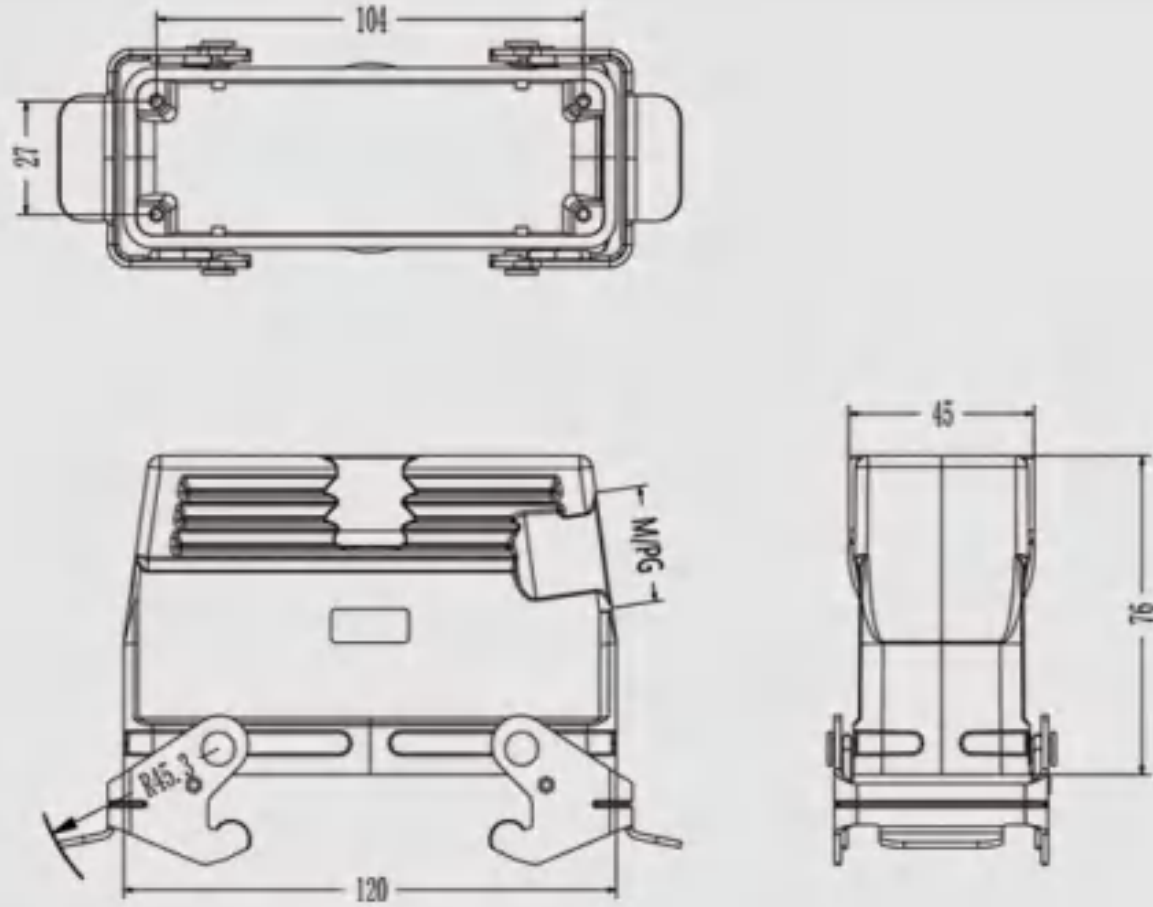
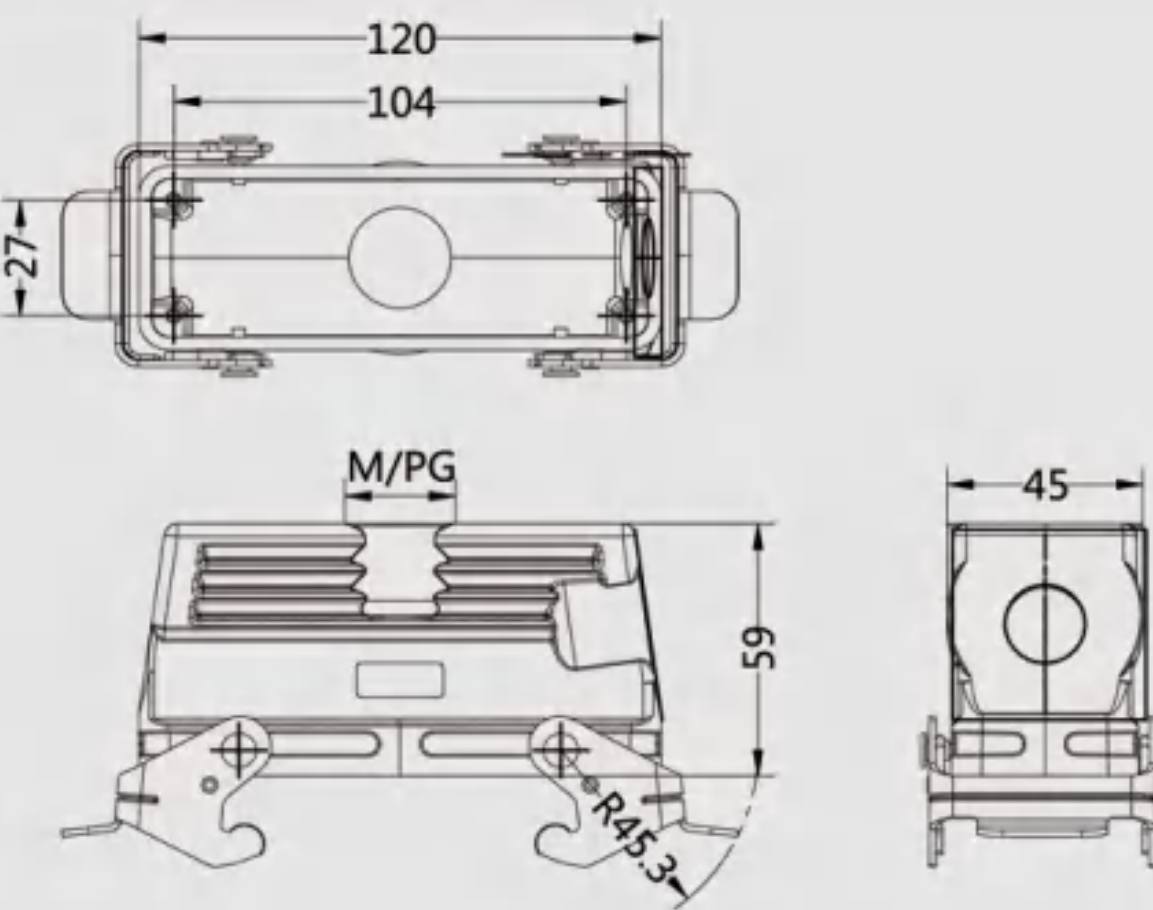
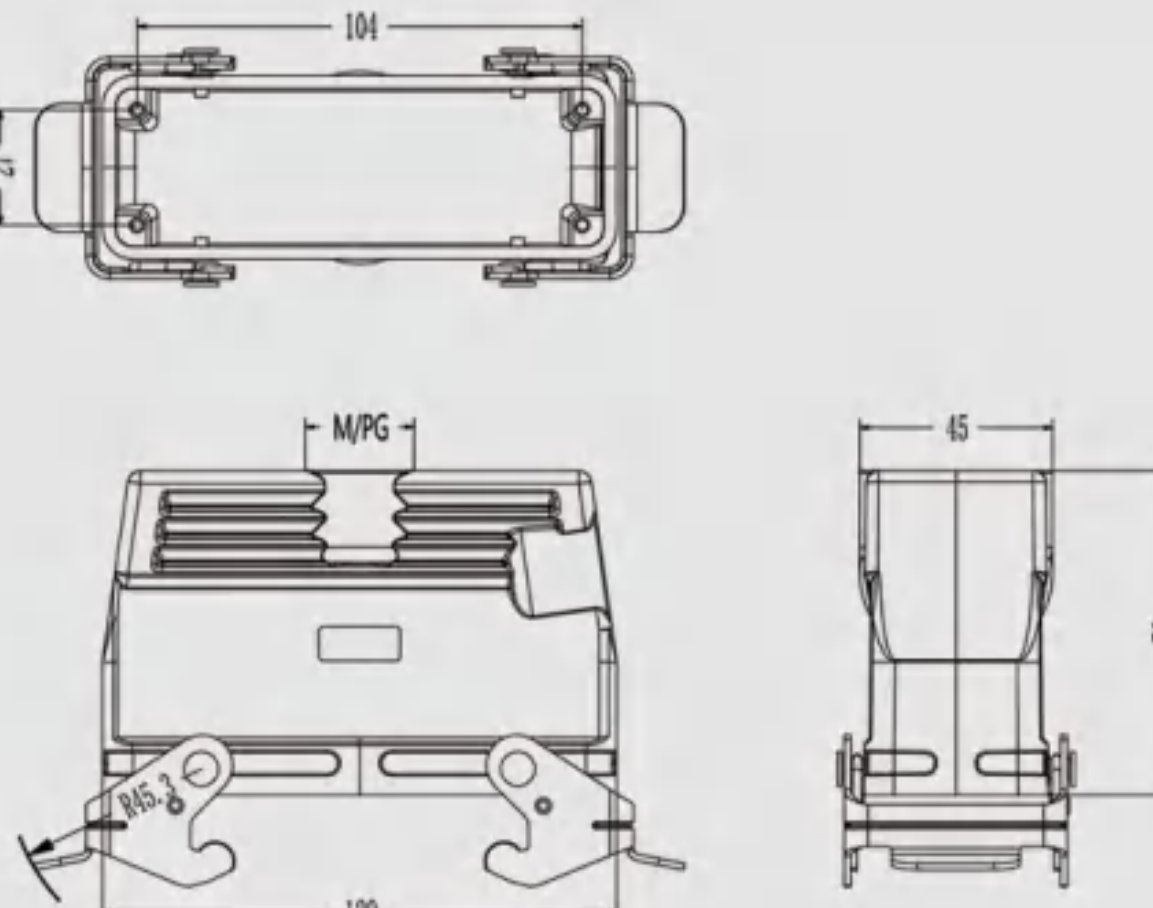
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry 	M20	H24B-SO/P-4B-M20	2 024 324 04 120		
	M25	H24B-SO/P-4B-M25	2 024 324 04 125		
	M32	H24B-SO/P-4B-M32	2 024 324 04 132		
	PG16	H24B-SO/P-4B-PG16	2 024 324 04 116		
	PG21	H24B-SO/P-4B-PG21	2 024 324 04 121		
Hoods, side entry, high construction 	M20	H24B-SOH/P-4B-M20	2 024 334 04 120		
	M25	H24B-SOH/P-4B-M25	2 024 334 04 125		
	M32	H24B-SOH/P-4B-M32	2 024 334 04 132		
	M40	H24B-SOH/P-4B-M40	2 024 334 04 140		
	PG13.5	H24B-SOH/P-4B-PG13.5	2 024 334 04 113		
	PG16	H24B-SOH/P-4B-PG16	2 024 334 04 116		
	PG21	H24B-SOH/P-4B-PG21	2 024 334 04 121		
	PG29	H24B-SOH/P-4B-PG29	2 024 334 04 129		
Hoods, top entry 	M20	H24B-TO/P-4B-M20	2 024 323 04 120		
	M25	H24B-TO/P-4B-M25	2 024 323 04 125		
	M32	H24B-TO/P-4B-M32	2 024 323 04 132		
	PG16	H24B-TO/P-4B-PG16	2 024 323 04 116		
	PG21	H24B-TO/P-4B-PG21	2 024 323 04 121		
Hoods, top entry, high construction 	M20	H24B-TOH/P-4B-M20	2 024 335 04 120		
	M25	H24B-TOH/P-4B-M25	2 024 335 04 125		
	M32	H24B-TOH/P-4B-M32	2 024 335 04 132		
	M40	H24B-TOH/P-4B-M40	2 024 335 04 140		
	PG13.5	H24B-TOH/P-4B-PG13.5	2 024 335 04 113		
	PG16	H24B-TOH/P-4B-PG16	2 024 335 04 116		
	PG21	H24B-TOH/P-4B-PG21	2 024 335 04 121		
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H24B

Degree of protection: IP65

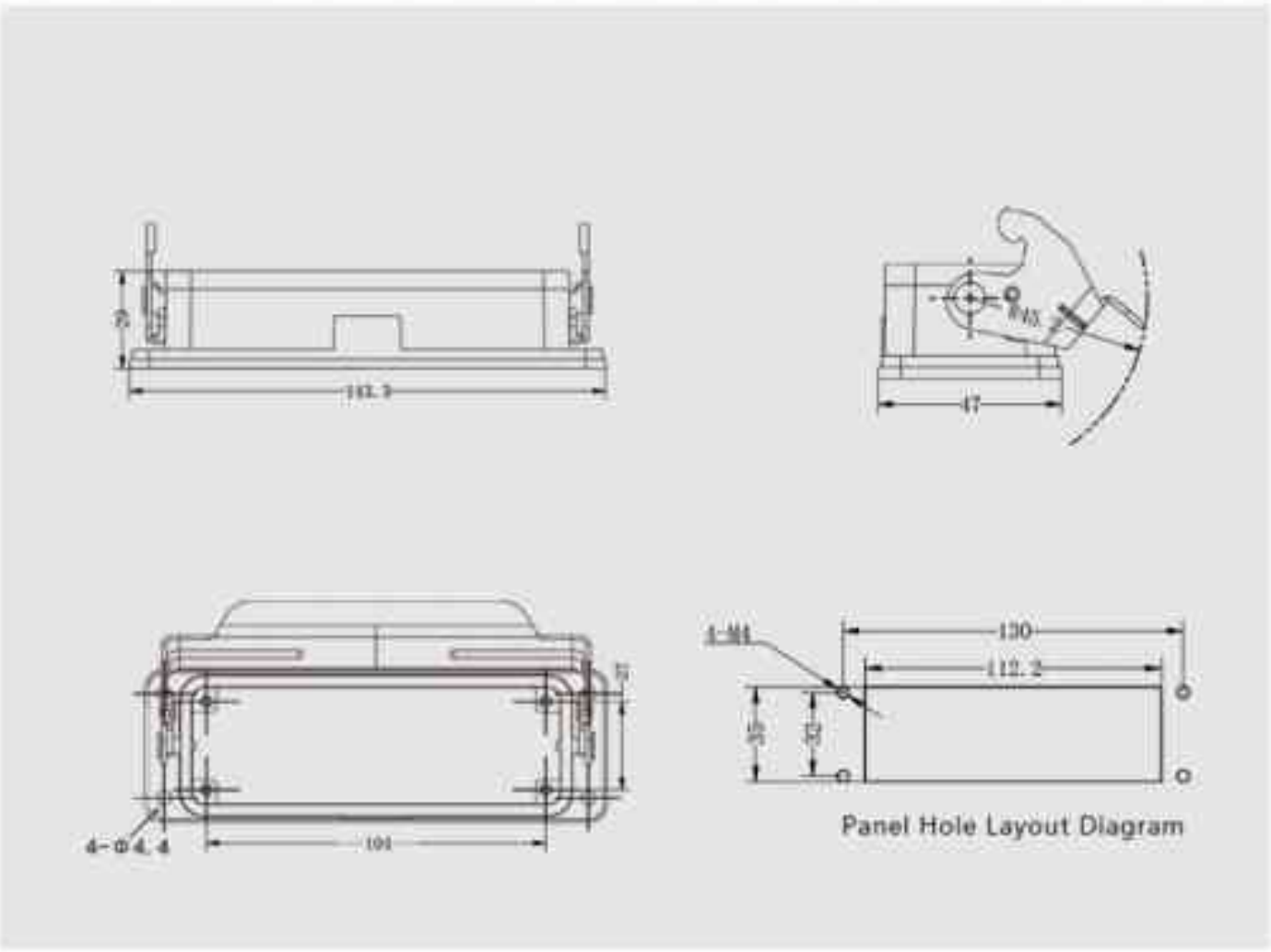
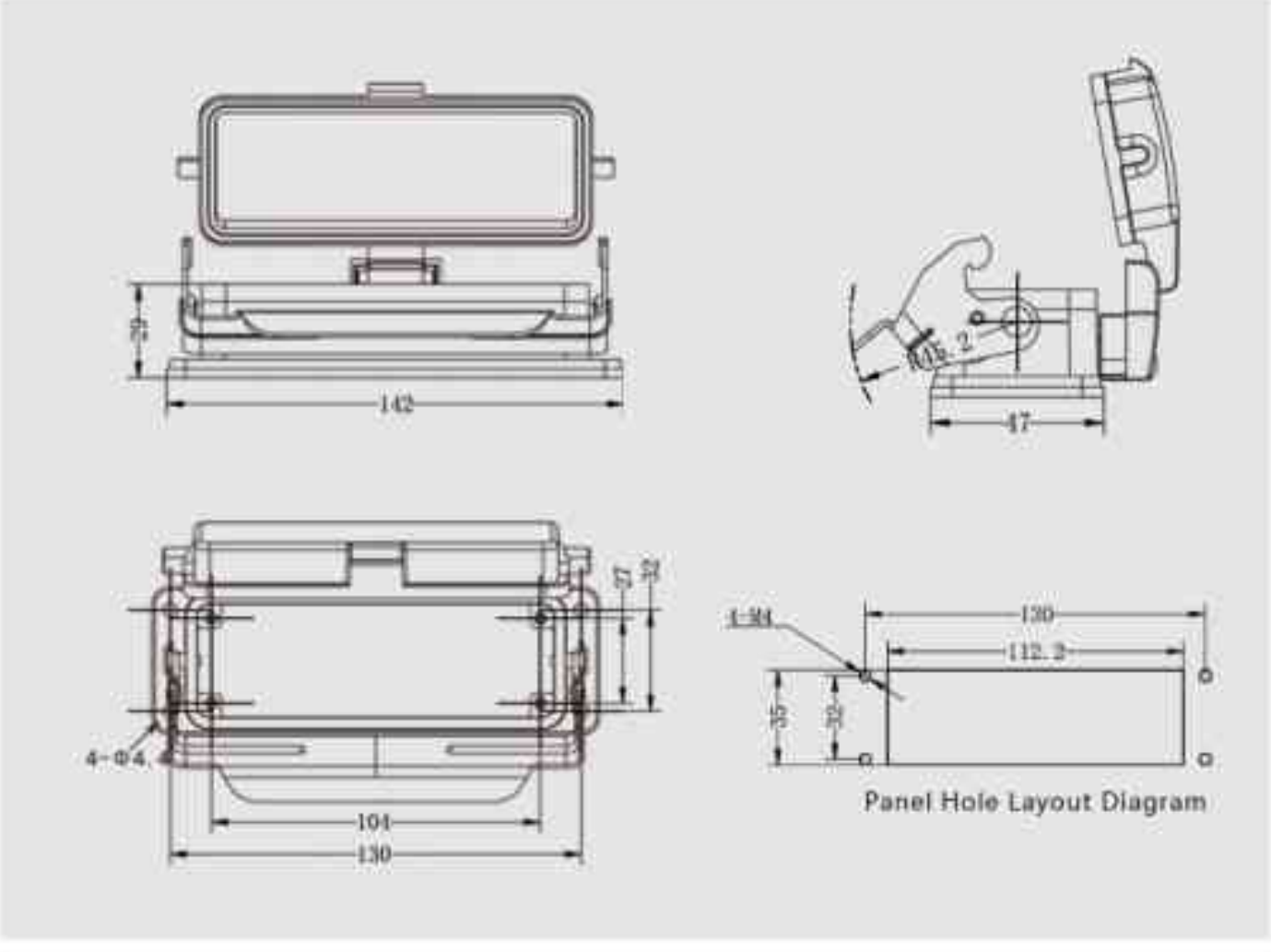
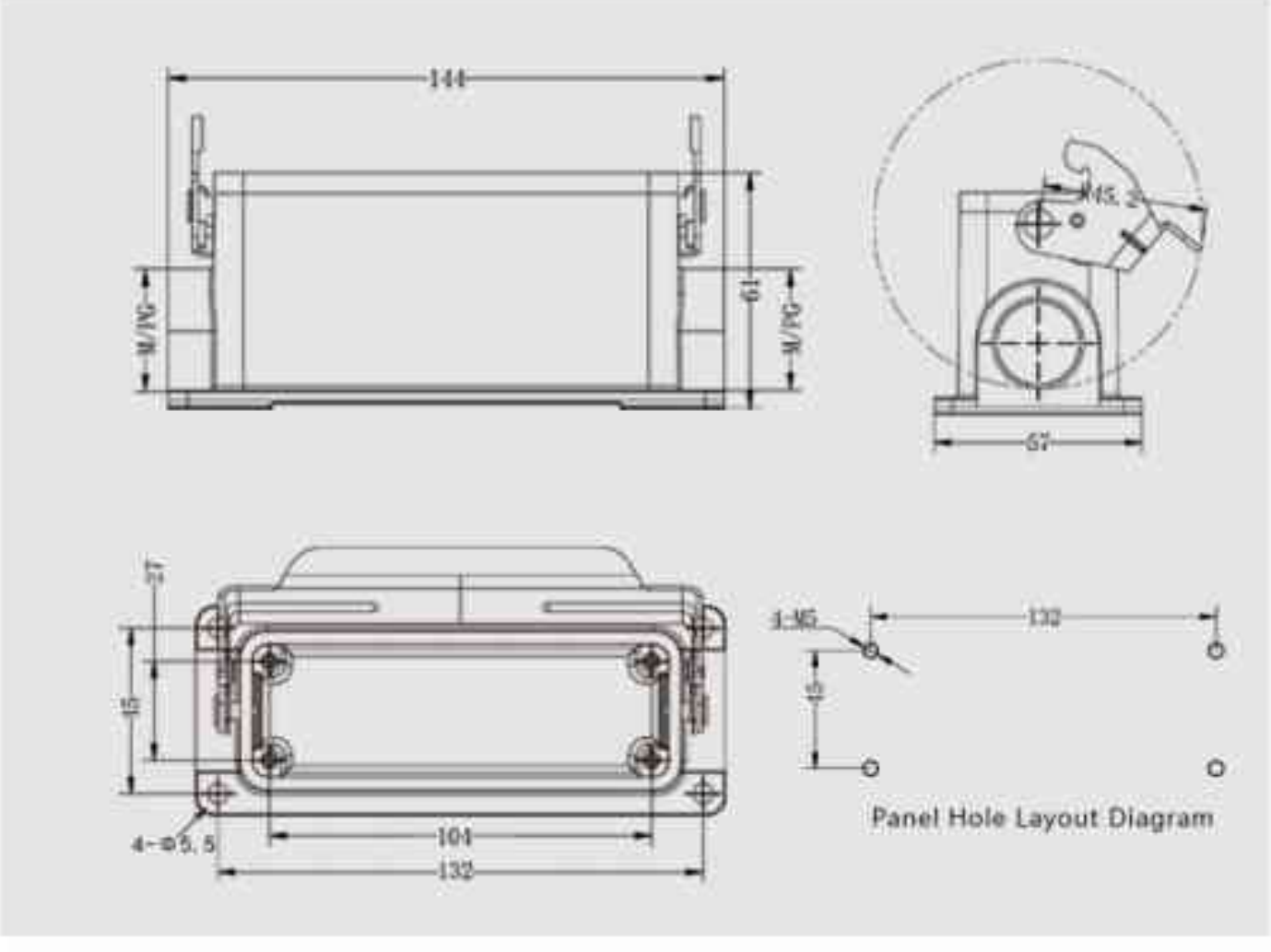
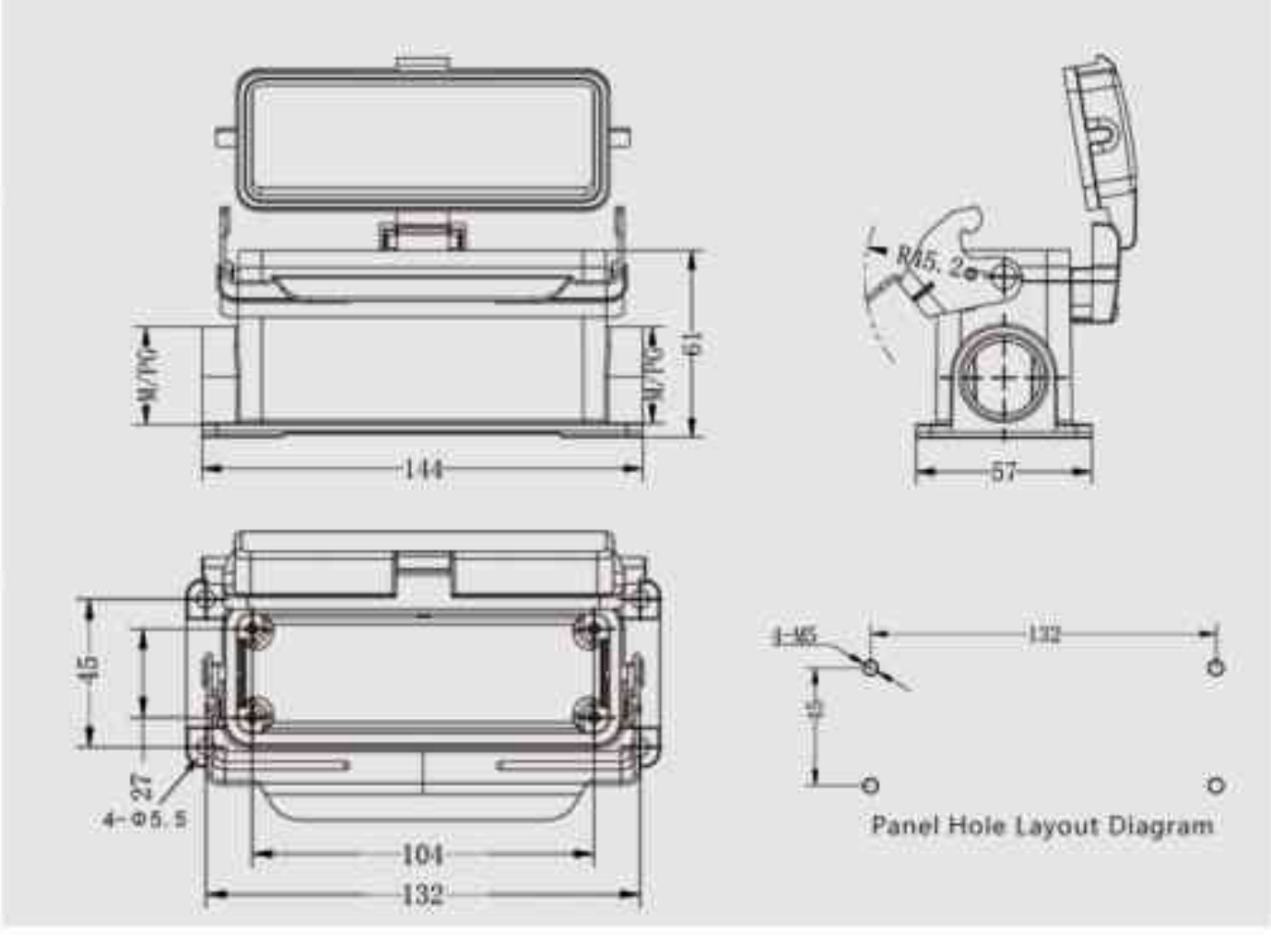
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry 	M20	H24B-SO/P-2L-M20	2 024 324 20 120		
	M25	H24B-SO/P-2L-M25	2 024 324 20 125		
	M32	H24B-SO/P-2L-M32	2 024 324 20 132		
	PG13.5	H24B-SO/P-2L-PG13.5	2 024 324 20 113		
	PG16	H24B-SO/P-2L-PG16	2 024 324 20 116		
	PG21	H24B-SO/P-2L-PG21	2 024 324 20 121		
Hoods, side entry, high construction 	M20	H24B-SOH/P-2L-M20	2 024 334 20 120		
	M25	H24B-SOH/P-2L-M25	2 024 334 20 125		
	M32	H24B-SOH/P-2L-M32	2 024 334 20 132		
	M40	H24B-SOH/P-2L-M40	2 024 334 20 140		
	PG13.5	H24B-SOH/P-2L-PG13.5	2 024 334 20 113		
	PG16	H24B-SOH/P-2L-PG16	2 024 334 20 116		
	PG21	H24B-SOH/P-2L-PG21	2 024 334 20 121		
	PG29	H24B-SOH/P-2L-PG29	2 024 334 20 129		
Hoods, top entry 	M20	H24B-TO/P-2L-M20	2 024 323 20 120		
	M25	H24B-TO/P-2L-M25	2 024 323 20 125		
	M32	H24B-TO/P-2L-M32	2 024 323 20 132		
	PG13.5	H24B-TO/P-2L-PG13.5	2 024 323 20 113		
	PG16	H24B-TO/P-2L-PG16	2 024 323 20 116		
	PG21	H24B-TO/P-2L-PG21	2 024 323 20 121		
Hoods, top entry, high construction 	M20	H24B-TOH/P-2L-M20	2 024 335 20 120		
	M25	H24B-TOH/P-2L-M25	2 024 335 20 125		
	M32	H24B-TOH/P-2L-M32	2 024 335 20 132		
	M40	H24B-TOH/P-2L-M40	2 024 335 20 140		
	PG13.5	H24B-TOH/P-2L-PG13.5	2 024 335 20 113		
	PG16	H24B-TOH/P-2L-PG16	2 024 335 20 116		
	PG21	H24B-TOH/P-2L-PG21	2 024 335 20 121		
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H24B

Degree of protection: IP65

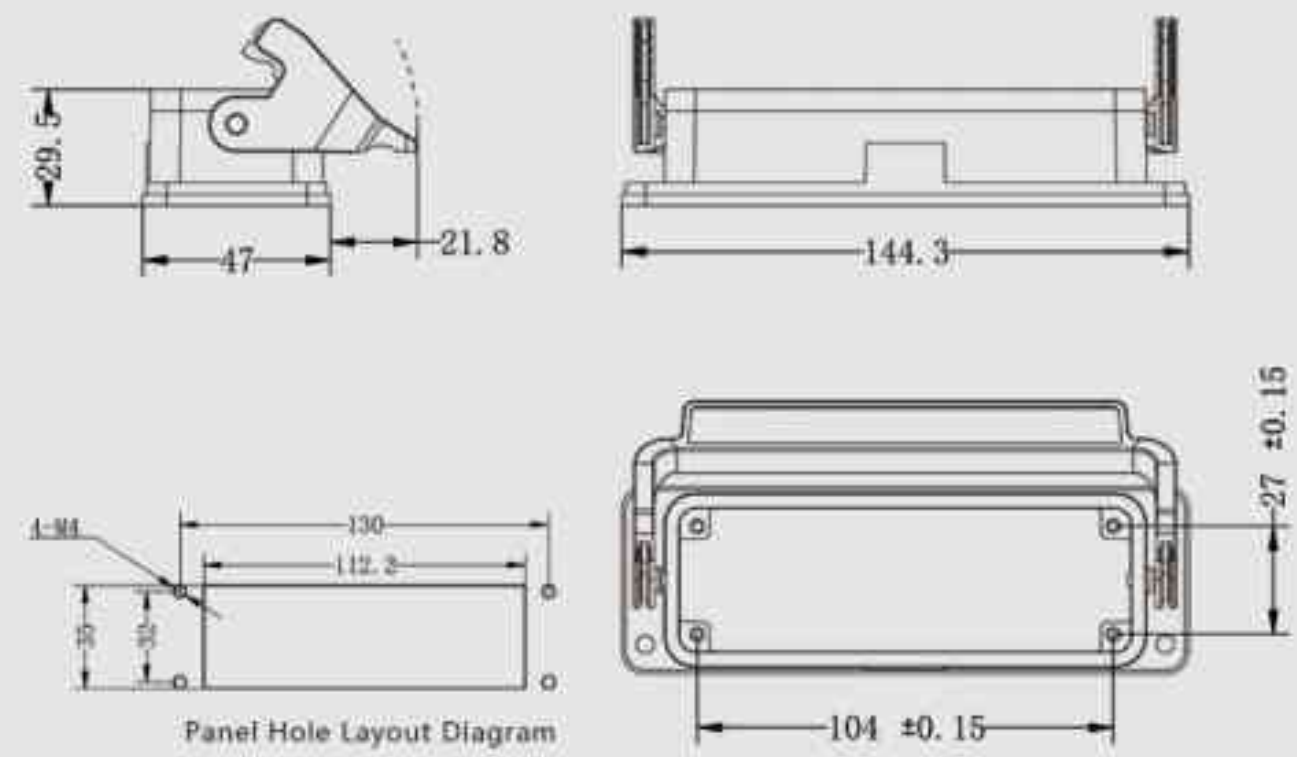
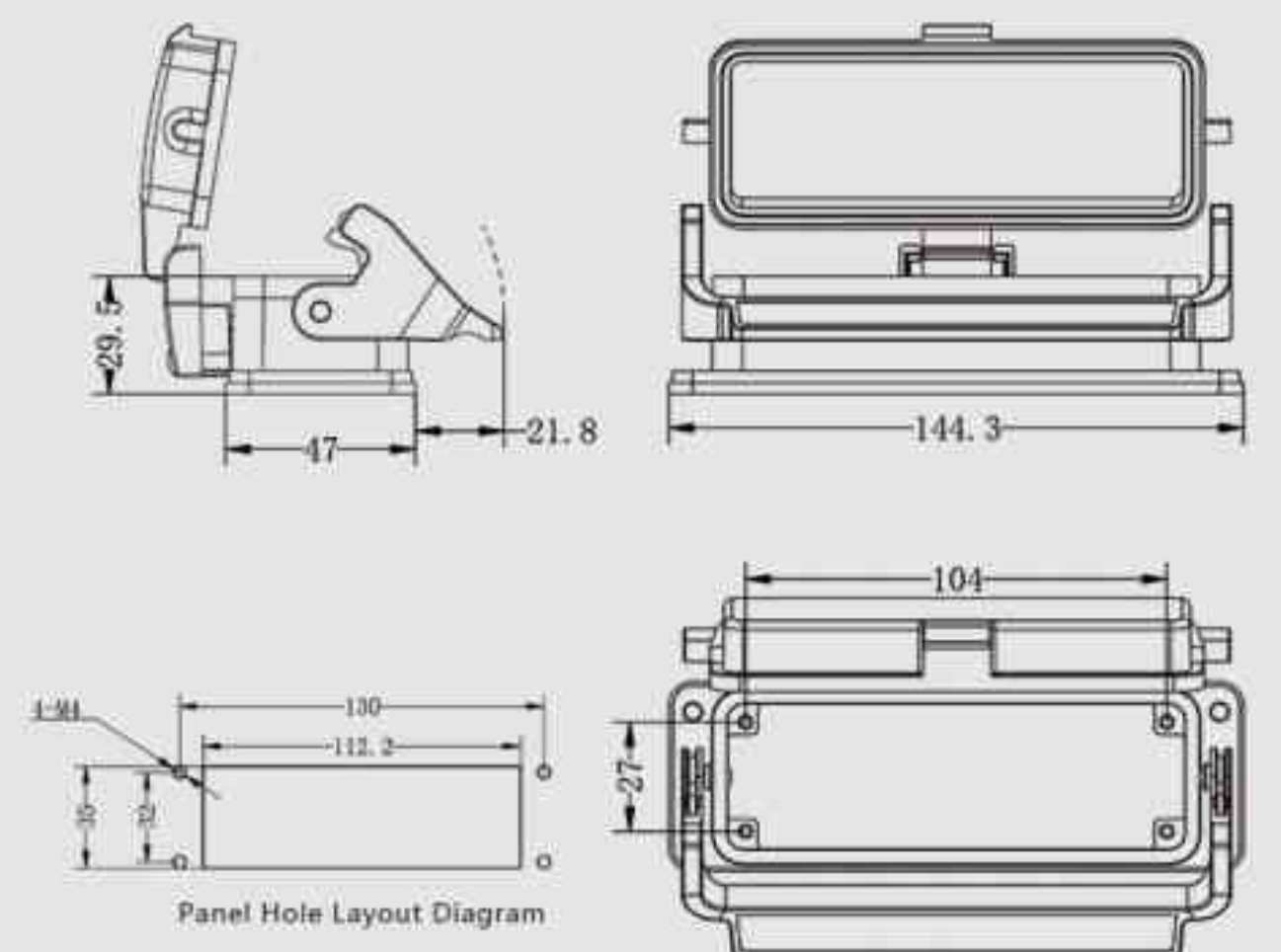
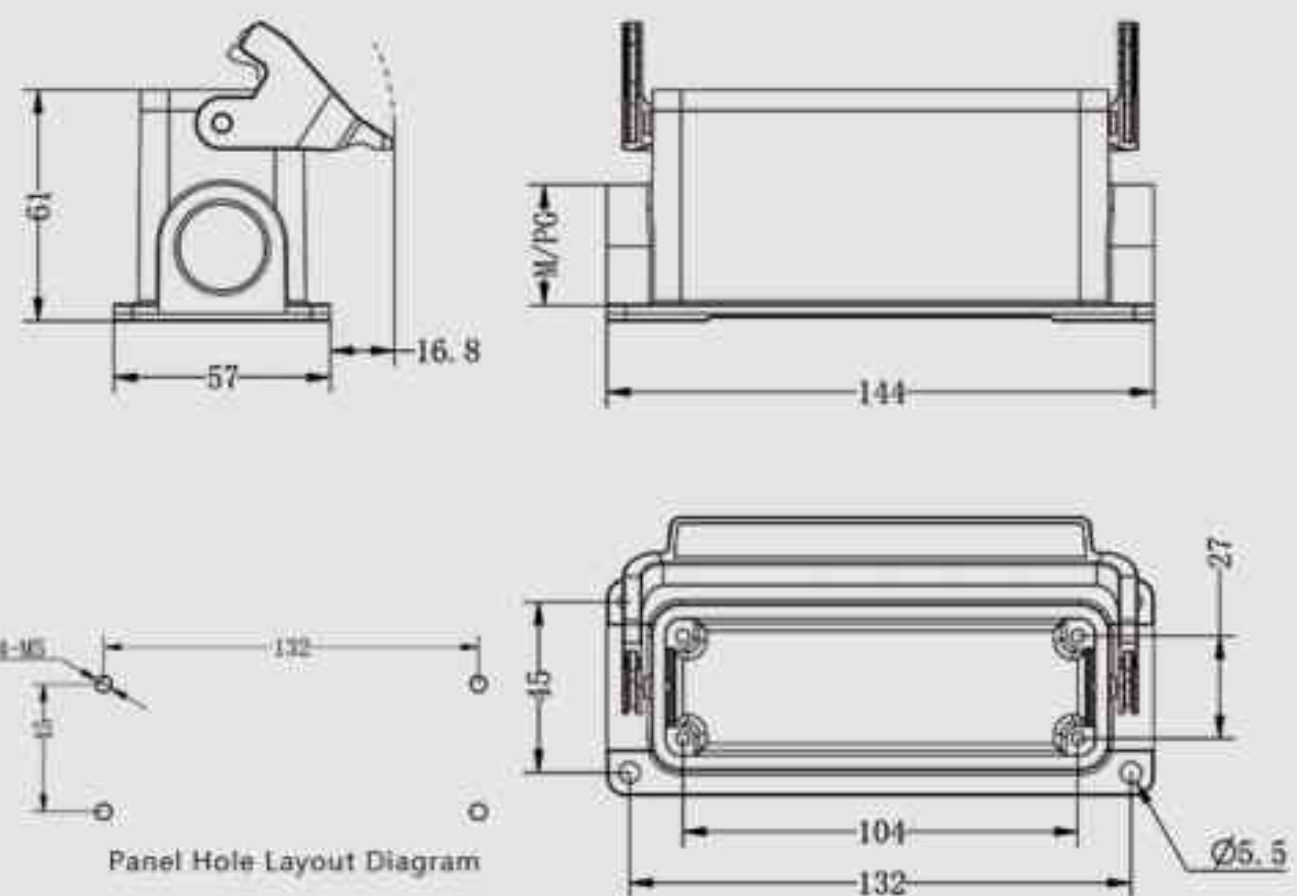
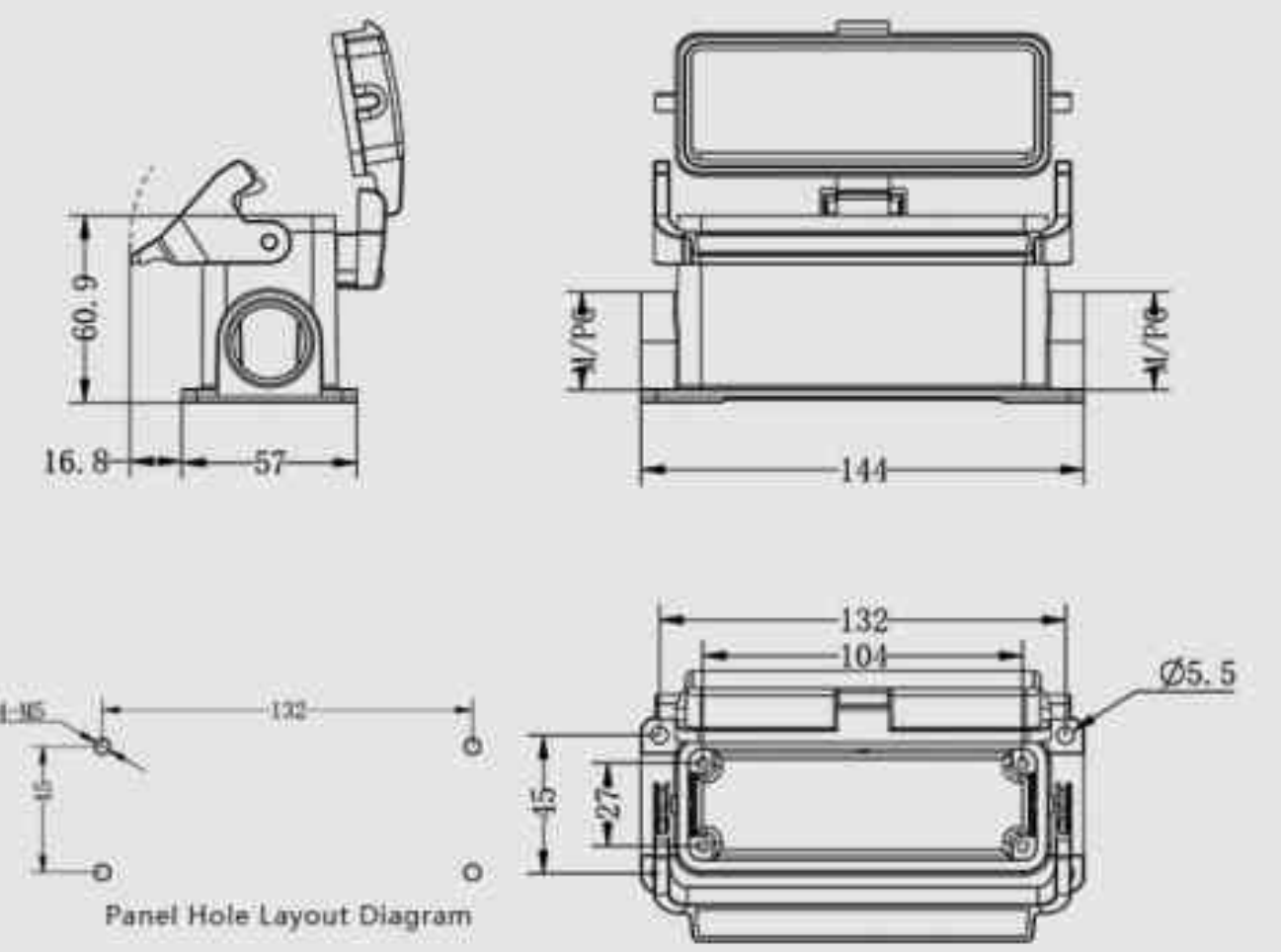
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H24B-HB-1L	2 024 306 10 000		
Housings, bulkhead mounting		H24B-HB-1L-CV	2 024 306 14 000		
Housings, surface mounting	M20	H24B-SM-1L-M20	2 024 307 10 120		
	M25	H24B-SM-1L-M25	2 024 307 10 125		
	PG13.5	H24B-SM-1L-PG13.5	2 024 307 10 113		
	PG16	H24B-SM-1L-PG16	2 024 307 10 116		
	PG21	H24B-SM-1L-PG21	2 024 307 10 121		
Housings, surface mounting	M20	H24B-SM-1L-CV-M20	2 024 307 14 120		
	M25	H24B-SM-1L-CV-M25	2 024 307 14 125		
	PG13.5	H24B-SM-1L-CV-PG13.5	2 024 307 14 113		
	PG16	H24B-SM-1L-CV-PG16	2 024 307 14 116		
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H24B

Degree of protection: IP65

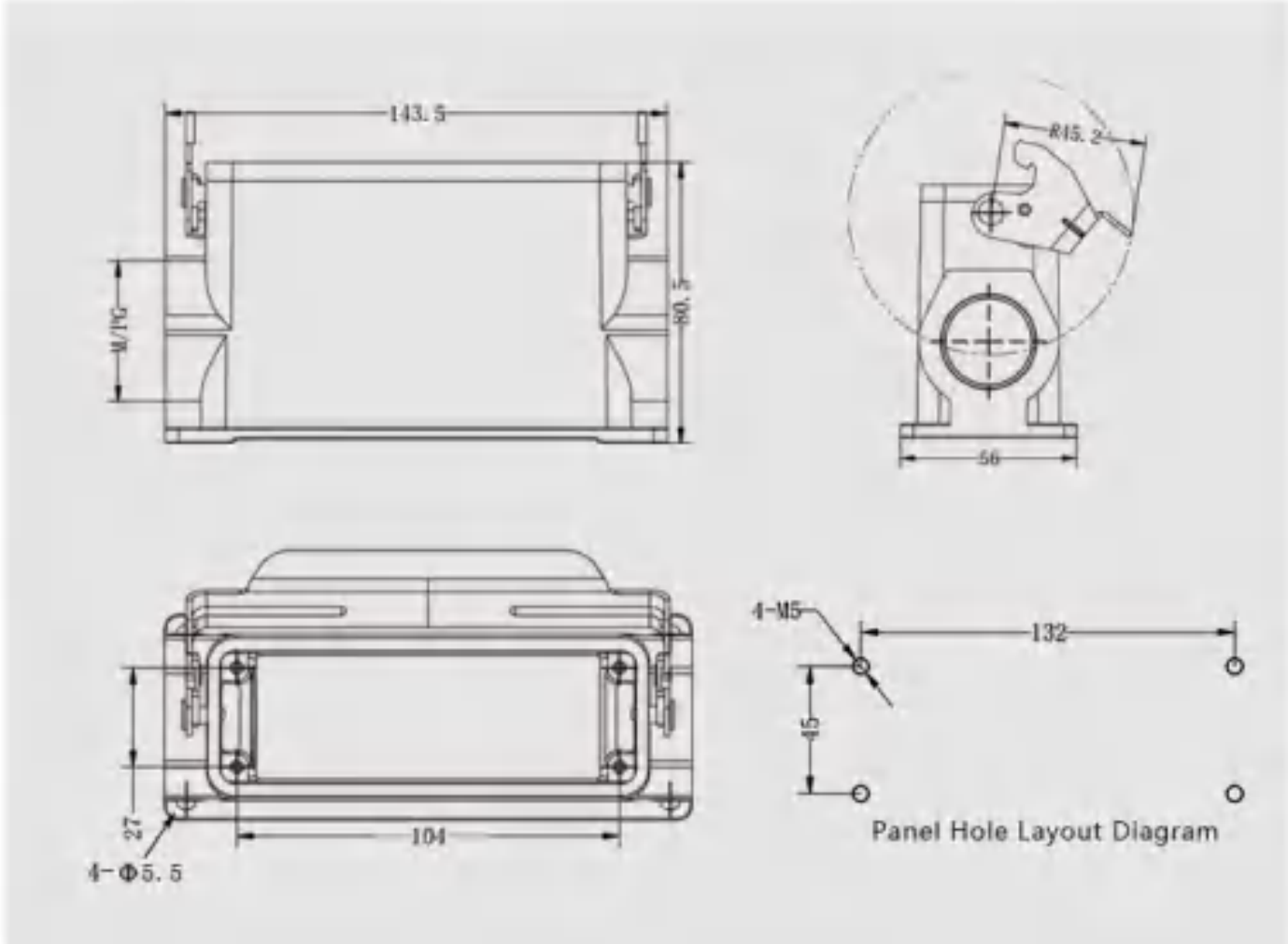
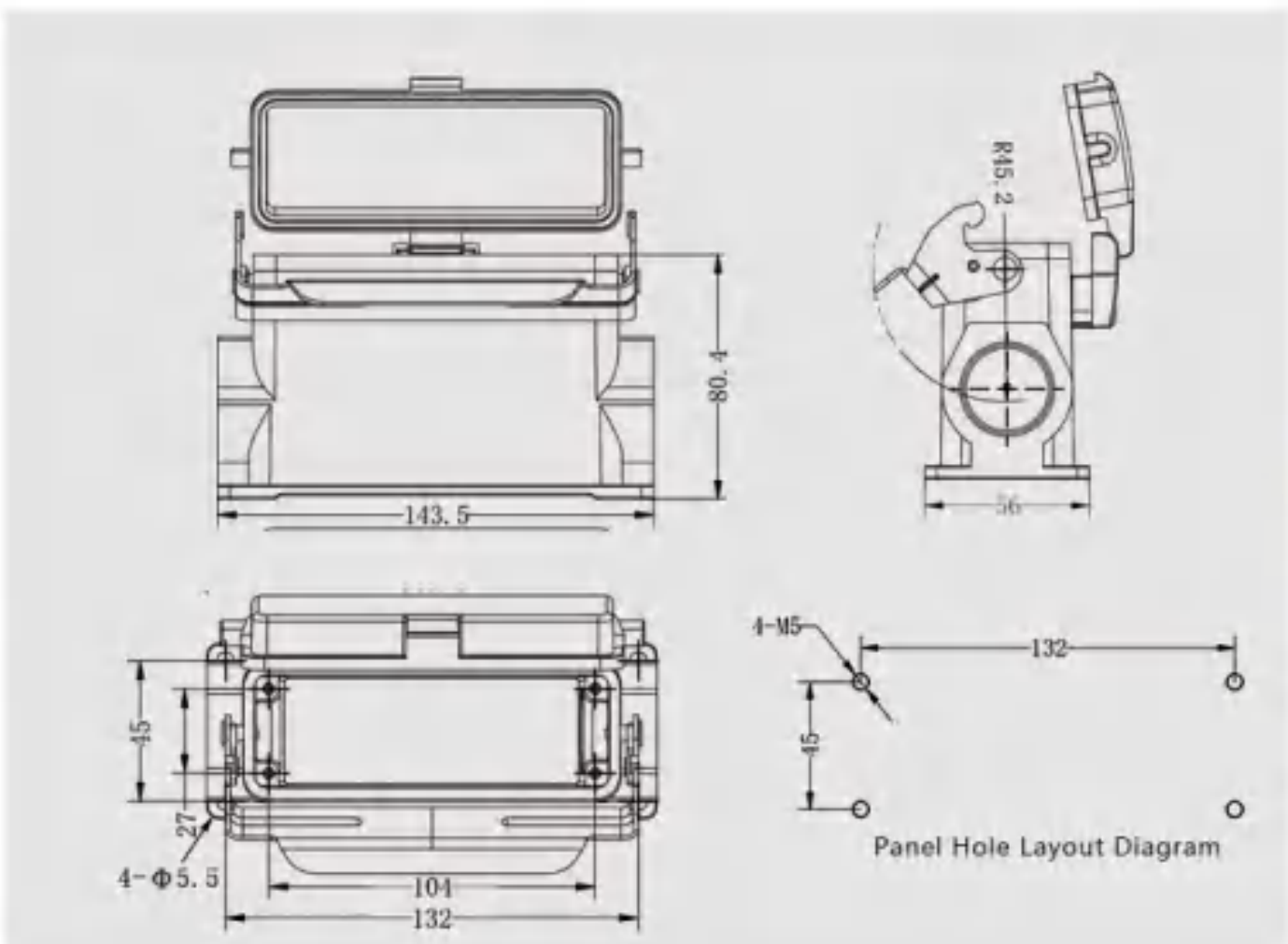
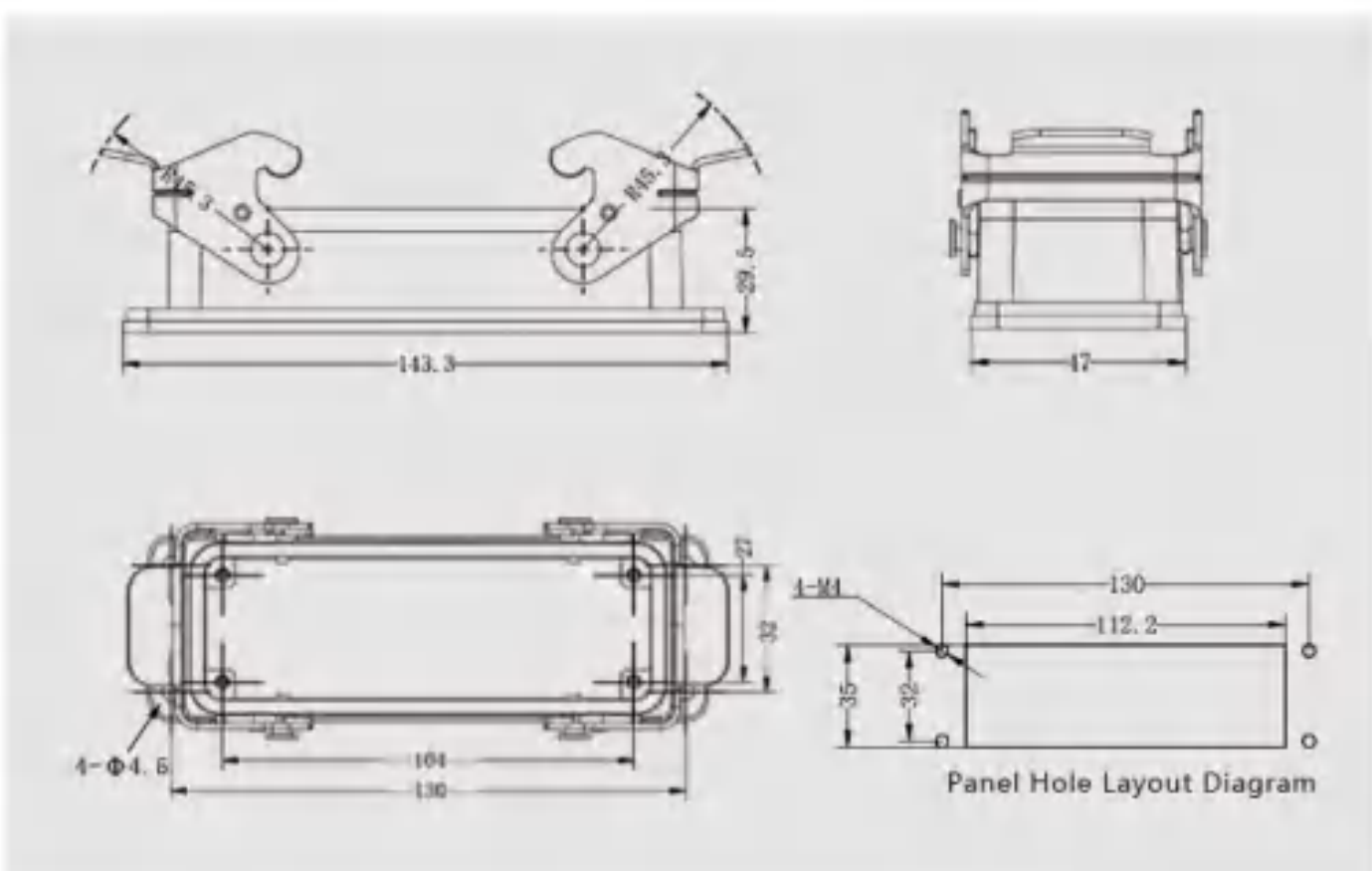
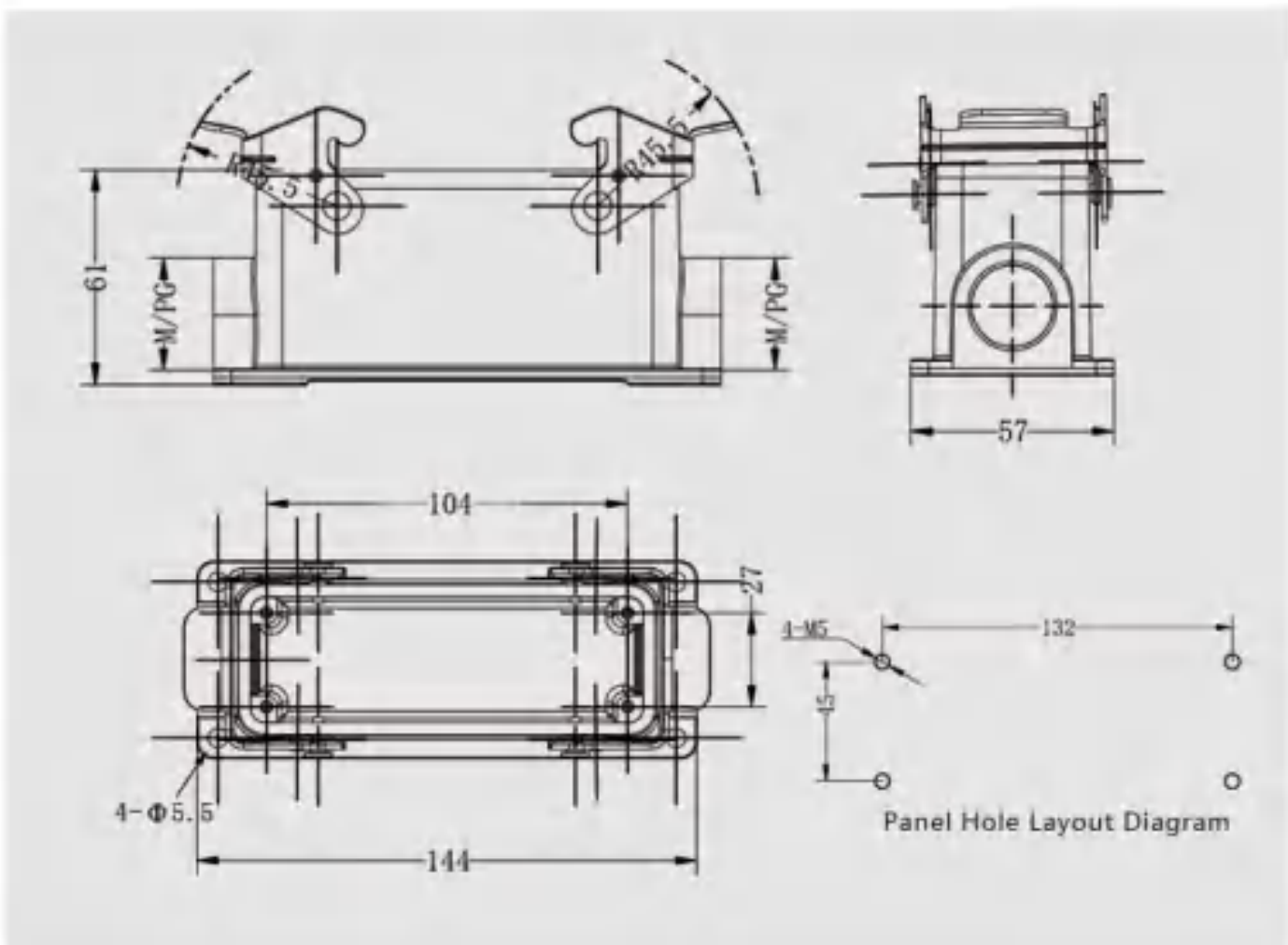
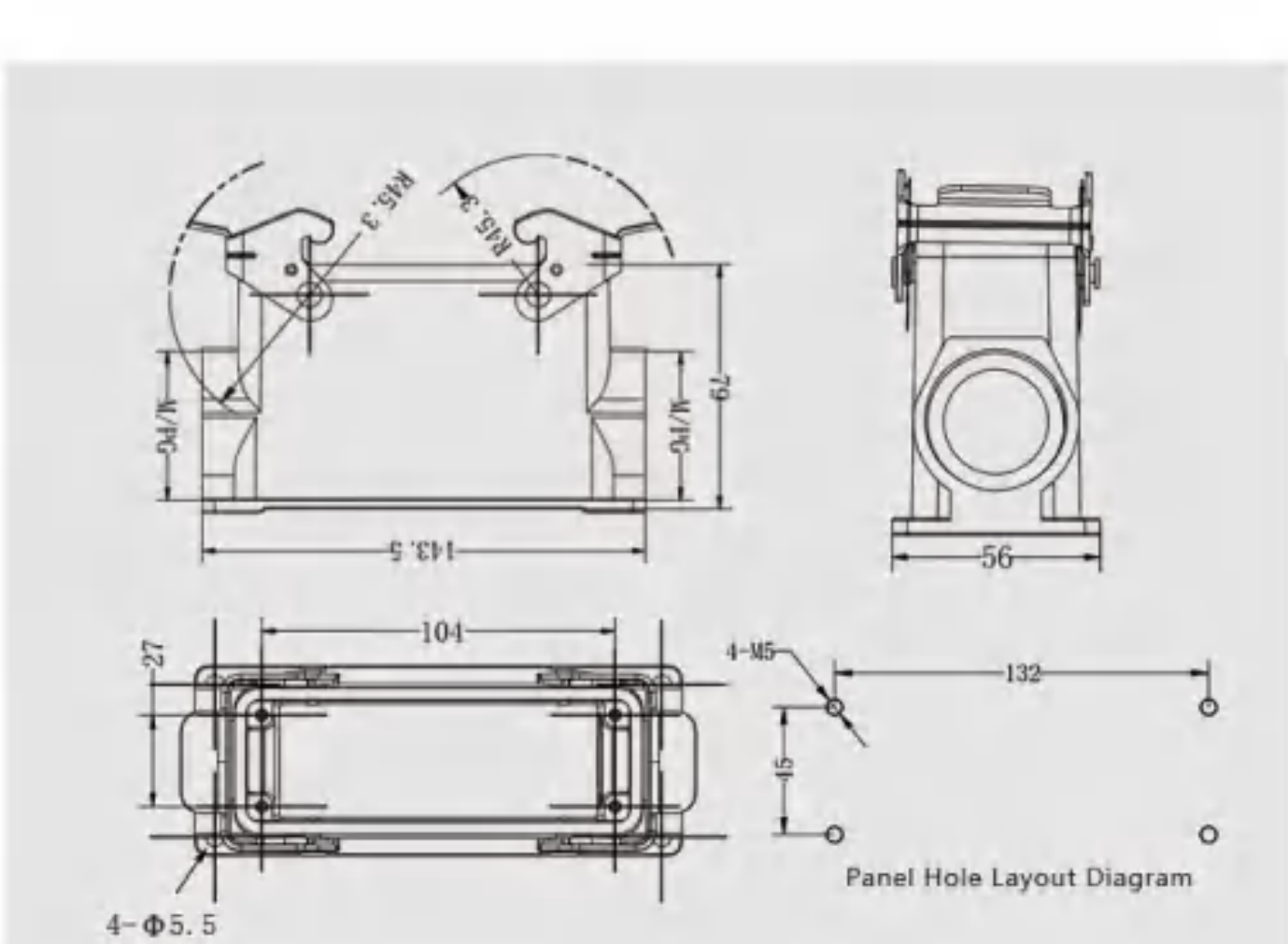
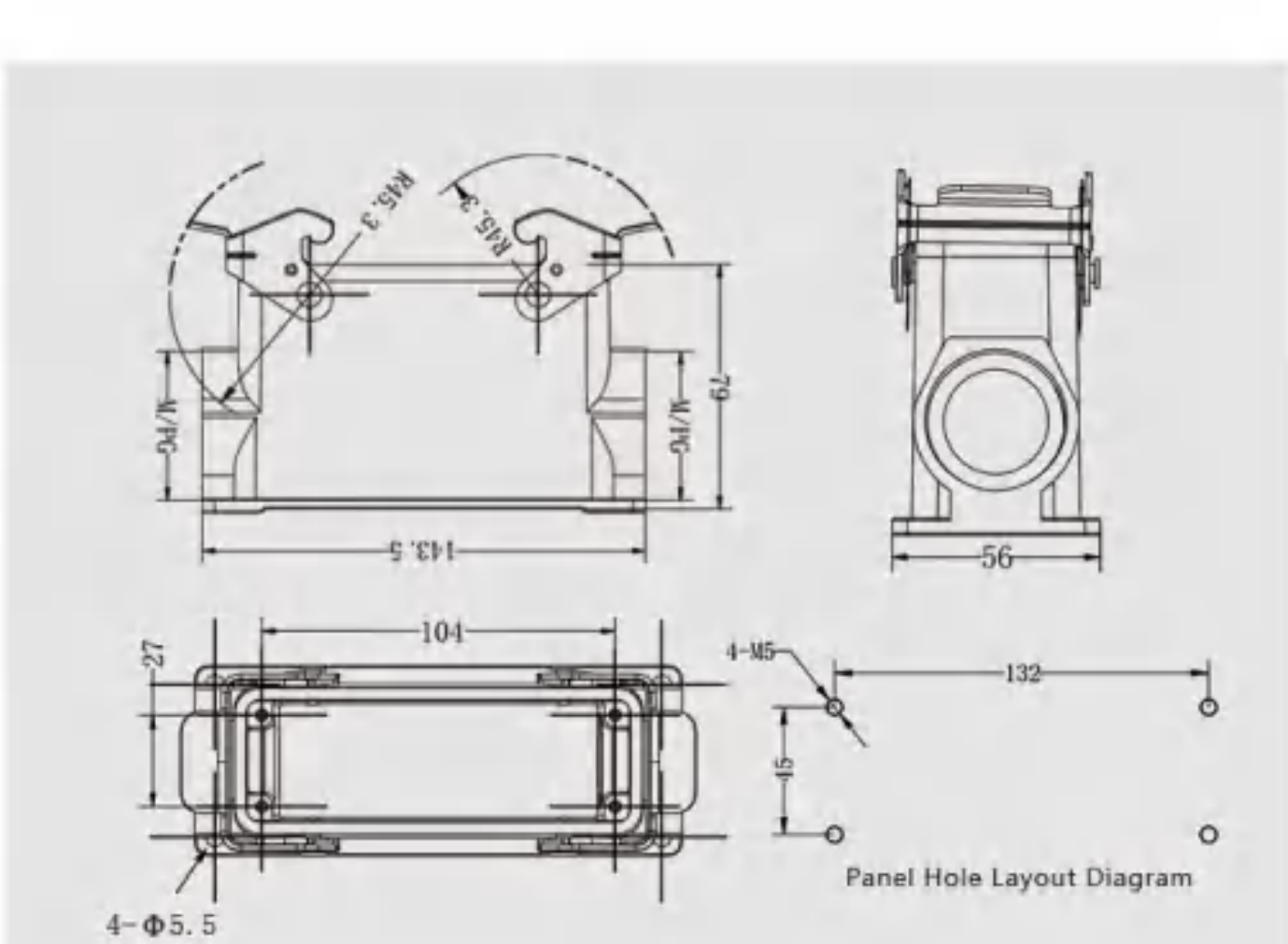
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H24B-HB-1L/P	2 024 306 11 000		
					
Housings, bulkhead mounting		H24B-HB-1L/P-CV	2 024 306 15 000		
					
Housings, surface mounting		M25 H24B-SM-1L/P-M25 PG21 H24B-SM-1L/P-PG21 2M25 H24B-SM-1L/P-2M25 2PG21 H24B-SM-1L/P-2PG21	2 024 307 11 125 2 024 307 11 121 2 024 307 11 225 2 024 307 11 221		
					
Housings, surface mounting		M25 H24B-SM-1L/P-CV-M25 PG21 H24B-SM-1L/P-CV-PG21 2M25 H24B-SM-1L/P-CV-2M25 2PG21 H24B-SM-1L/P-CV-2PG21	2 024 307 15 125 2 024 307 15 121 2 024 307 15 225 2 024 307 15 221		
					

H24B

Degree of protection: IP65

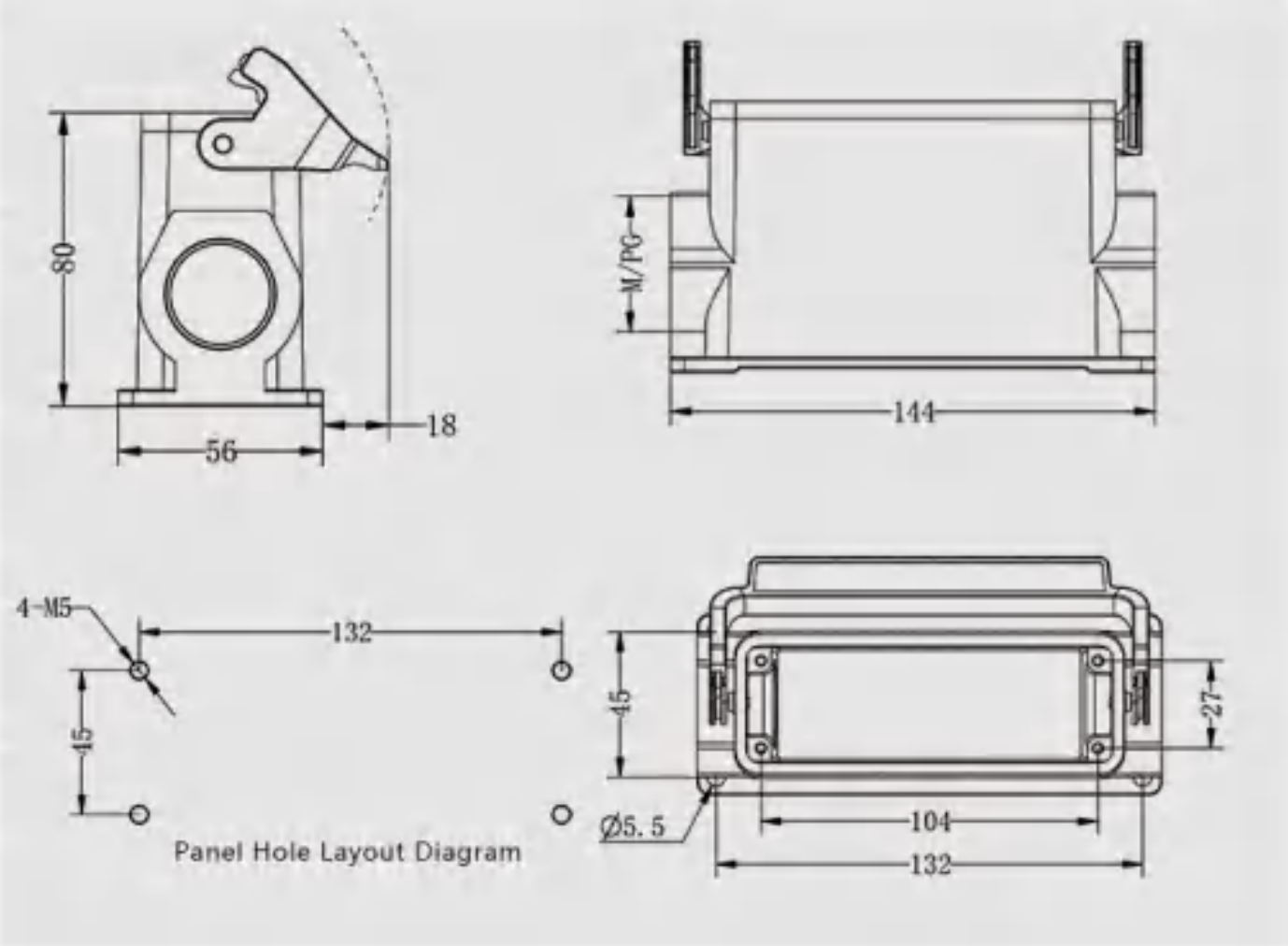
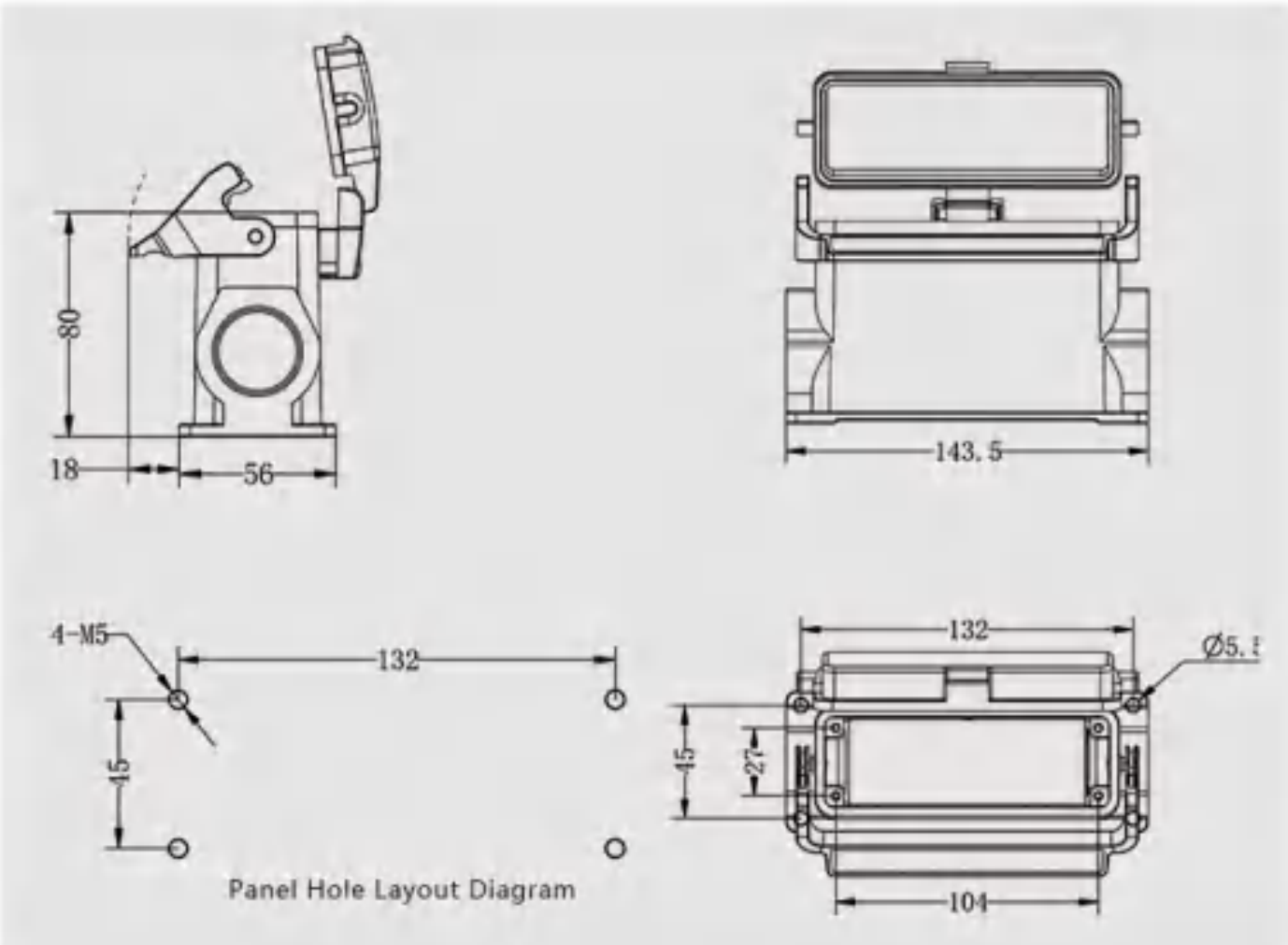
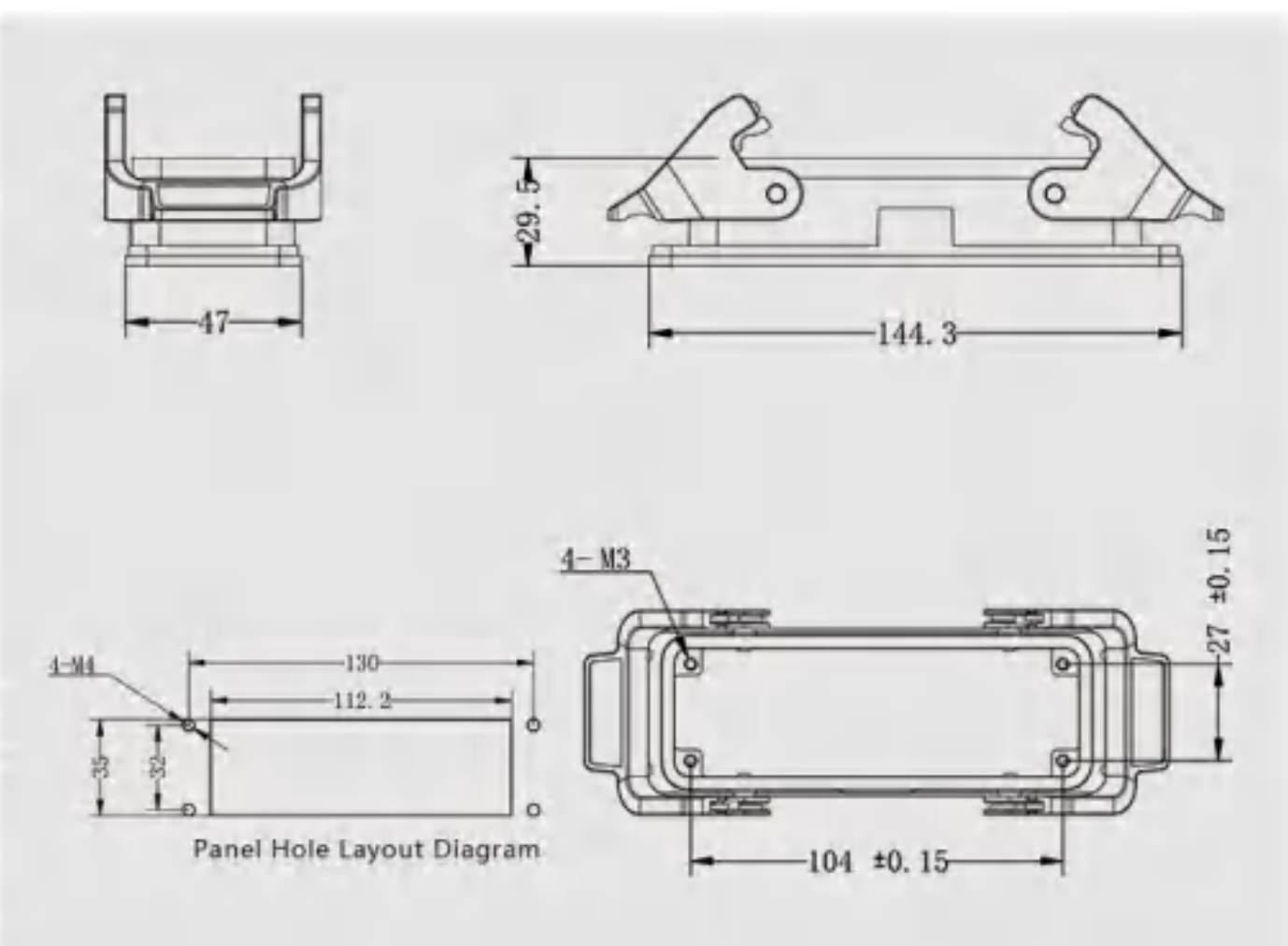
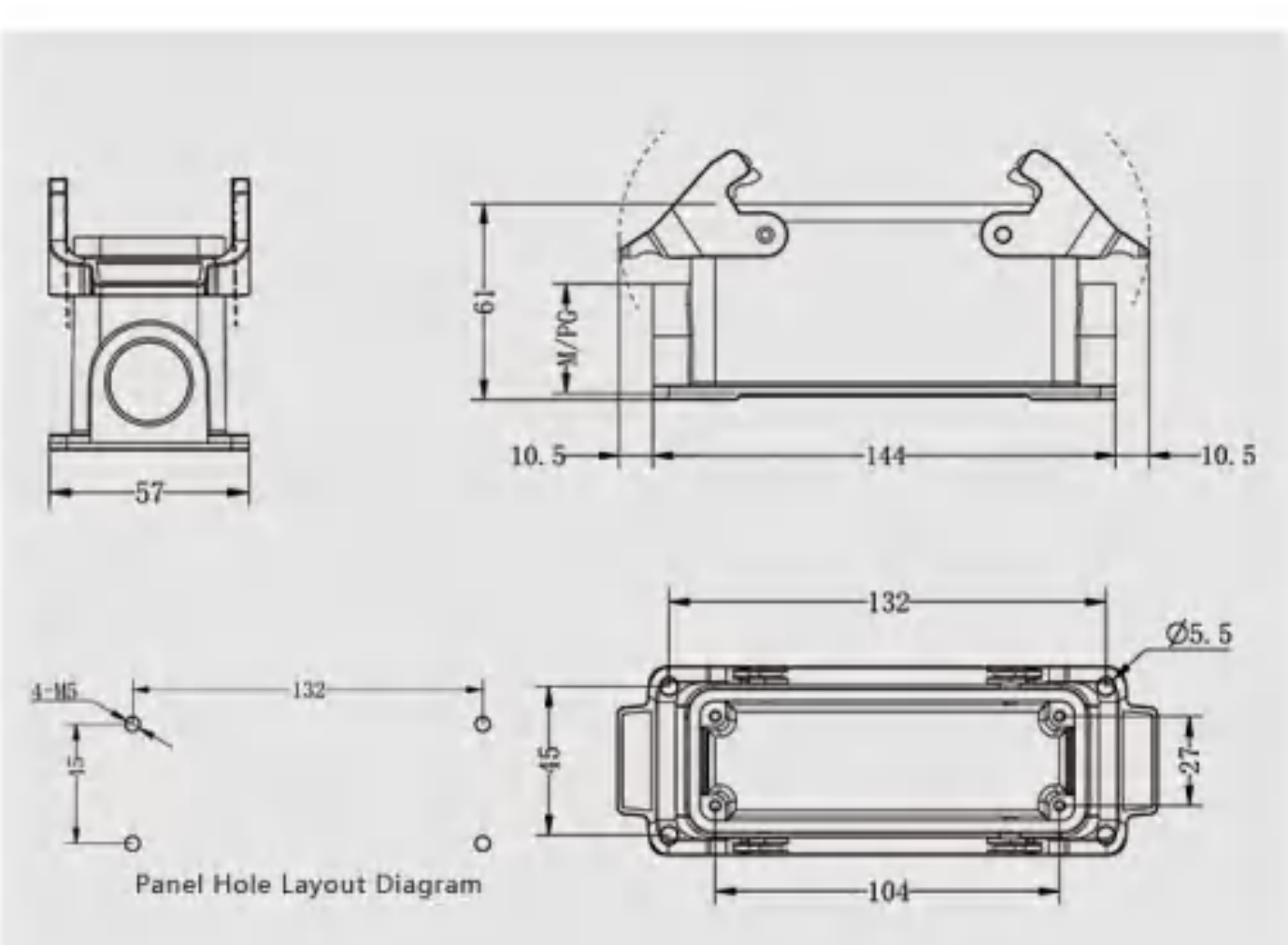
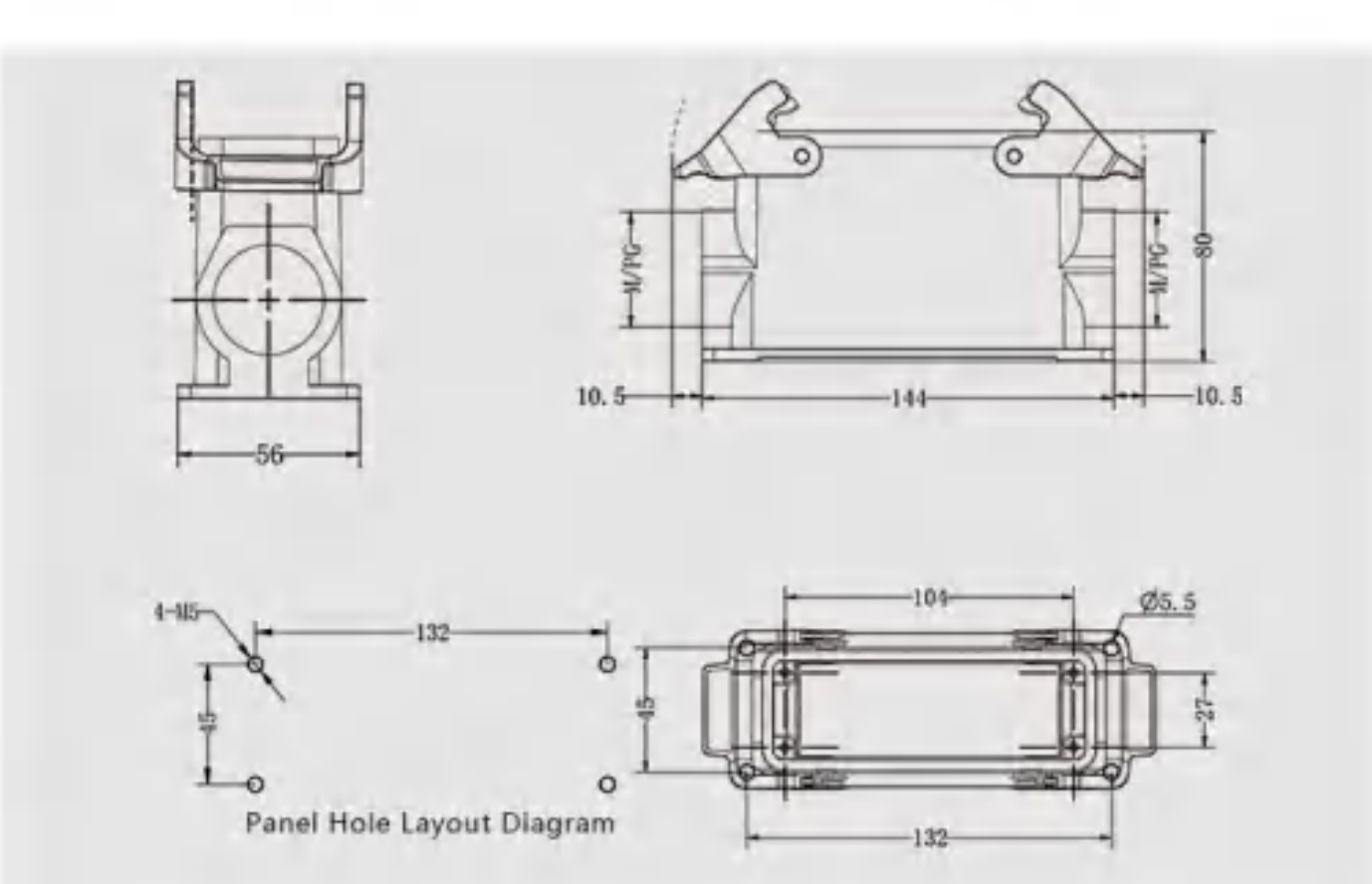
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting 	M20	H24B-SMH-1L-M20	2 024 308 10 120		
	M25	H24B-SMH-1L-M25	2 024 308 10 125		
	M32	H24B-SMH-1L-M32	2 024 308 10 132		
	PG16	H24B-SMH-1L-PG16	2 024 308 10 116		
	PG21	H24B-SMH-1L-PG21	2 024 308 10 121		
	PG29	H24B-SMH-1L-PG29	2 024 308 10 129		
Housings, surface mounting 	M20	H24B-SMH-1L-CV-M20	2 024 308 14 120		
	M25	H24B-SMH-1L-CV-M25	2 024 308 14 125		
	M32	H24B-SMH-1L-CV-M32	2 024 308 14 132		
	M40	H24B-SMH-1L-CV-M40	2 024 308 14 140		
	PG16	H24B-SMH-1L-CV-PG16	2 024 308 14 116		
	PG21	H24B-SMH-1L-CV-PG21	2 024 308 14 121		
Housings, bulkhead mounting 	H24B-HB-2L		2 024 306 20 000		
Housings, surface mounting 	M20	H24B-SM-2L-M20	2 024 307 20 120		
	M25	H24B-SM-2L-M25	2 024 307 20 125		
	PG16	H24B-SM-2L-PG16	2 024 307 20 116		
	PG21	H24B-SM-2L-PG21	2 024 307 20 121		
	2M20	H24B-SM-2L-2M20	2 024 307 20 220		
	2M25	H24B-SM-2L-2M25	2 024 307 20 225		
Housings, surface mounting 	2PG16	H24B-SM-2L-2PG16	2 024 307 20 216		
	2PG21	H24B-SM-2L-2PG21	2 024 307 20 221		
	M25	H24B-SMH-2L-M25	2 024 308 20 125		
	M32	H24B-SMH-2L-M32	2 024 308 20 132		
	M40	H24B-SMH-2L-M40	2 024 308 20 140		
	PG21	H24B-SMH-2L-PG21	2 024 308 20 121		
Housings, surface mounting 	PG29	H24B-SMH-2L-PG29	2 024 308 20 129		
	2M25	H24B-SMH-2L-2M25	2 024 308 20 225		
	2M32	H24B-SMH-2L-2M32	2 024 308 20 232		
	2M40	H24B-SMH-2L-2M40	2 024 308 20 240		
	2PG21	H24B-SMH-2L-2PG21	2 024 308 20 221		
	2PG29	H24B-SMH-2L-2PG29	2 024 308 20 229		

H24B

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting	M25	H24B-SMH-1L/P-M25	2 024 308 11 125		
	M32	H24B-SMH-1L/P-M32	2 024 308 11 132		
	M40	H24B-SMH-1L/P-M40	2 024 308 11 140		
	PG21	H24B-SMH-1L/P-PG21	2 024 308 11 121		
	PG29	H24B-SMH-1L/P-PG29	2 024 308 11 129		
	2M25	H24B-SMH-1L/P-2M25	2 024 308 11 225		
	2M32	H24B-SMH-1L/P-2M32	2 024 308 11 232		
	2PG21	H24B-SMH-1L/P-2PG21	2 024 308 11 221		
	2PG29	H24B-SMH-1L/P-2PG29	2 024 308 11 229		
Housings, surface mounting	M25	H24B-SMH-1L/P-CV-M25	2 024 308 15 125		
	M32	H24B-SMH-1L/P-CV-M32	2 024 308 15 132		
	M40	H24B-SMH-1L/P-CV-M40	2 024 308 15 140		
	PG21	H24B-SMH-1L/P-CV-PG21	2 024 308 15 121		
	PG29	H24B-SMH-1L/P-CV-PG29	2 024 308 15 129		
	2M25	H24B-SMH-1L/P-CV-2M25	2 024 308 15 225		
	2M32	H24B-SMH-1L/P-CV-2M32	2 024 308 15 232		
	2PG21	H24B-SMH-1L/P-CV-2PG21	2 024 308 15 221		
	2PG29	H24B-SMH-1L/P-CV-2PG29	2 024 308 15 229		
Housings, bulkhead mounting	H24B-HB-2L/P		2 024 306 21 000		
Housings, surface mounting	M25	H24B-SM-2L/P-M25	2 024 307 21 125		
	PG21	H24B-SM-2L/P-PG21	2 024 307 21 121		
	2M25	H24B-SM-2L/P-2M25	2 024 307 21 225		
	2PG21	H24B-SM-2L/P-2PG21	2 024 307 21 221		
Housings, surface mounting	M25	H24B-SMH-2L/P-M25	2 024 308 21 125		
	M32	H24B-SMH-2L/P-M32	2 024 308 21 132		
	M40	H24B-SMH-2L/P-M40	2 024 308 21 140		
	PG21	H24B-SMH-2L/P-PG21	2 024 308 21 121		
	PG29	H24B-SMH-2L/P-PG29	2 024 308 21 129		
	2M25	H24B-SMH-2L/P-2M25	2 024 308 21 225		
	2M32	H24B-SMH-2L/P-2M32	2 024 308 21 232		
	2PG21	H24B-SMH-2L/P-2PG21	2 024 308 21 221		
	2PG29	H24B-SMH-2L/P-2PG29	2 024 308 21 229		

Degree of protection: IP65

Metal hoods

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H24B

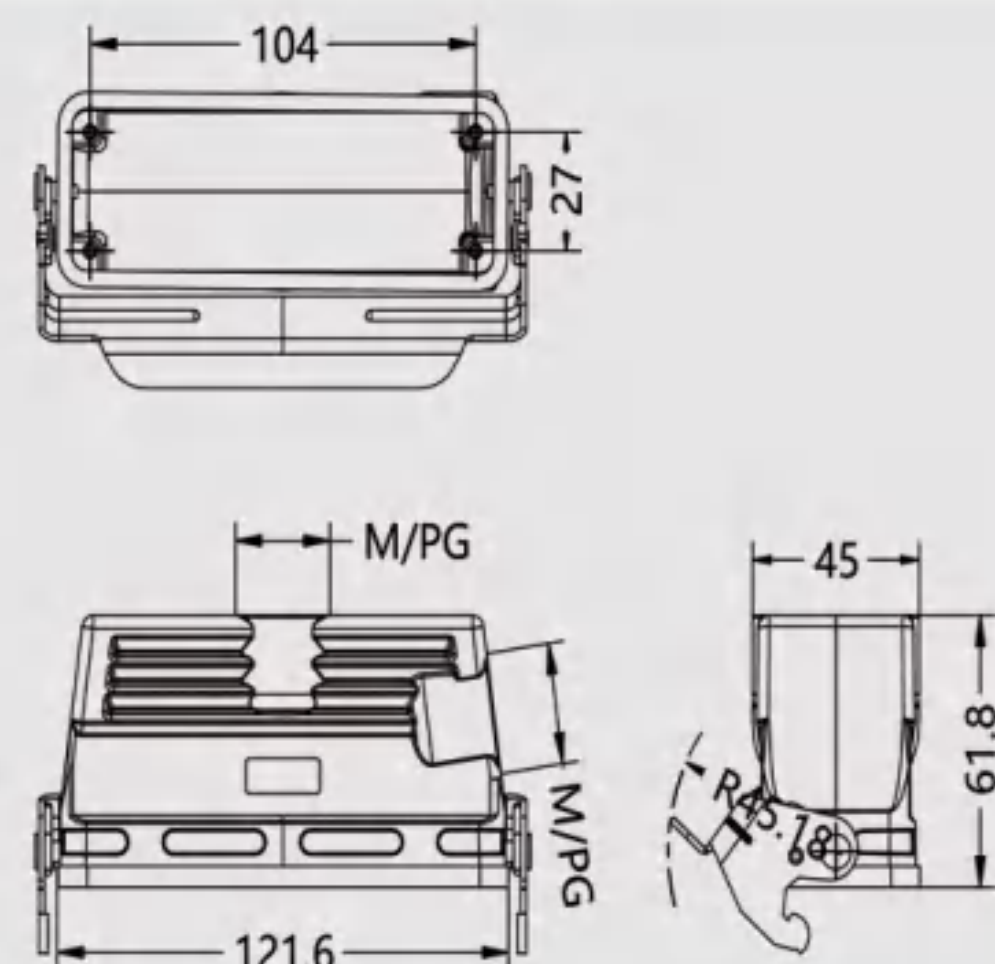
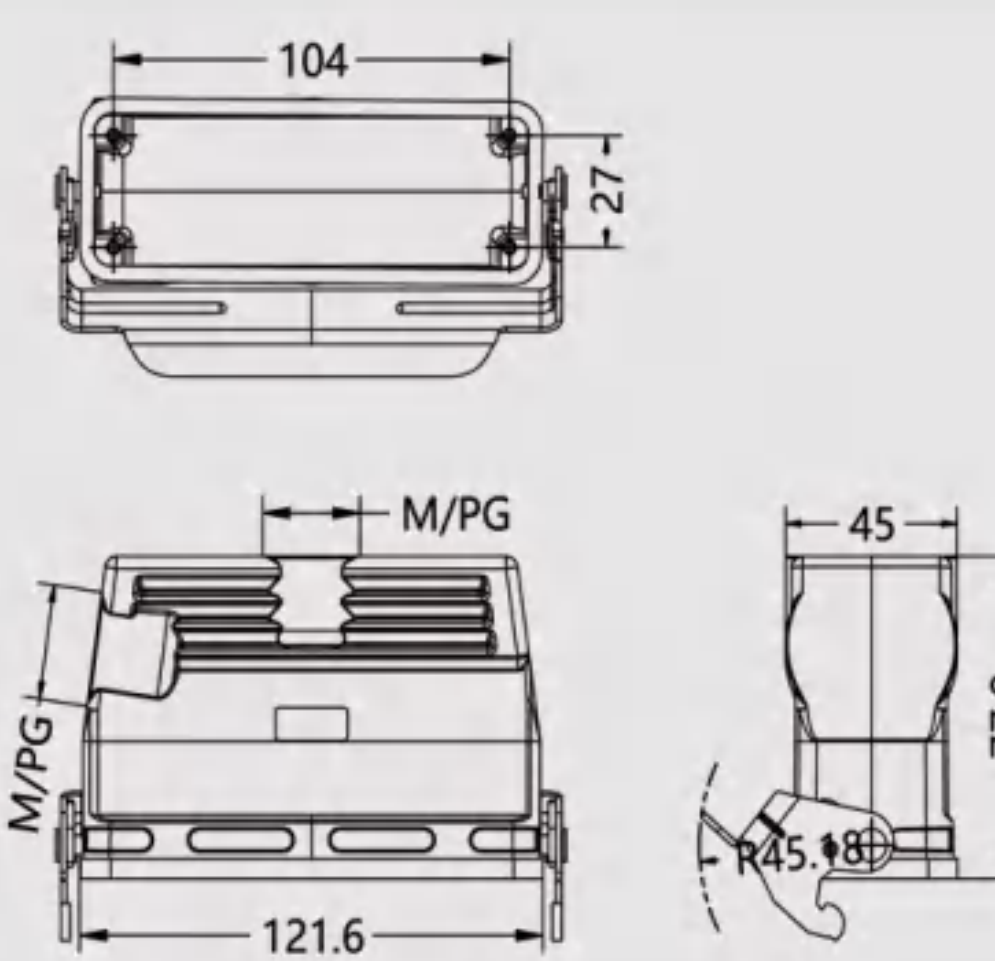
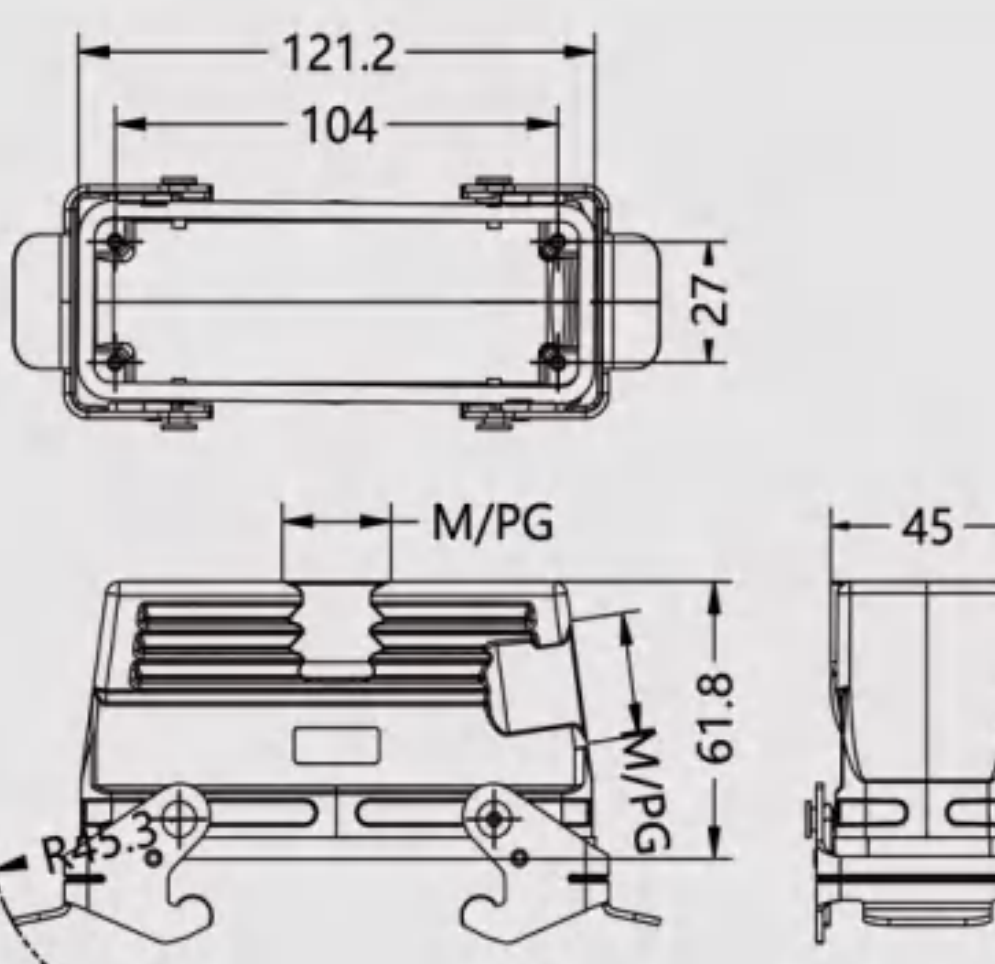
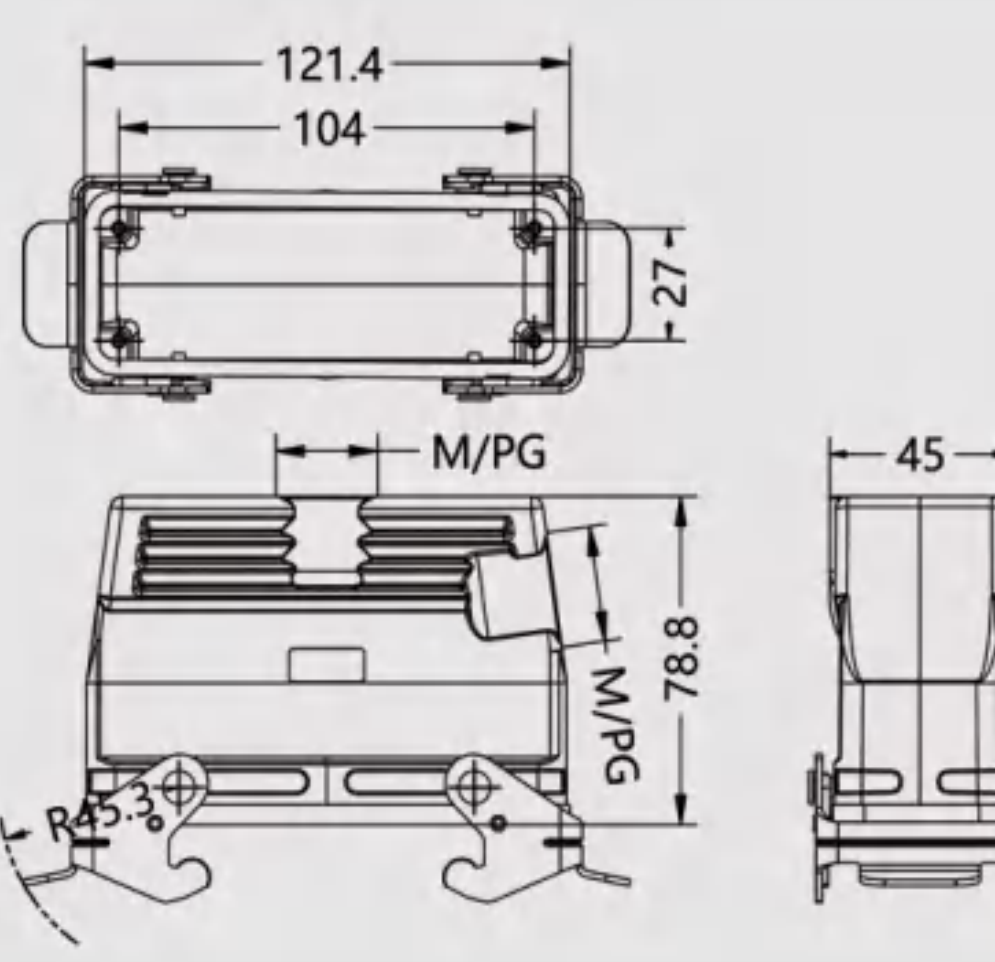
Metal hoods

H24B

H24B

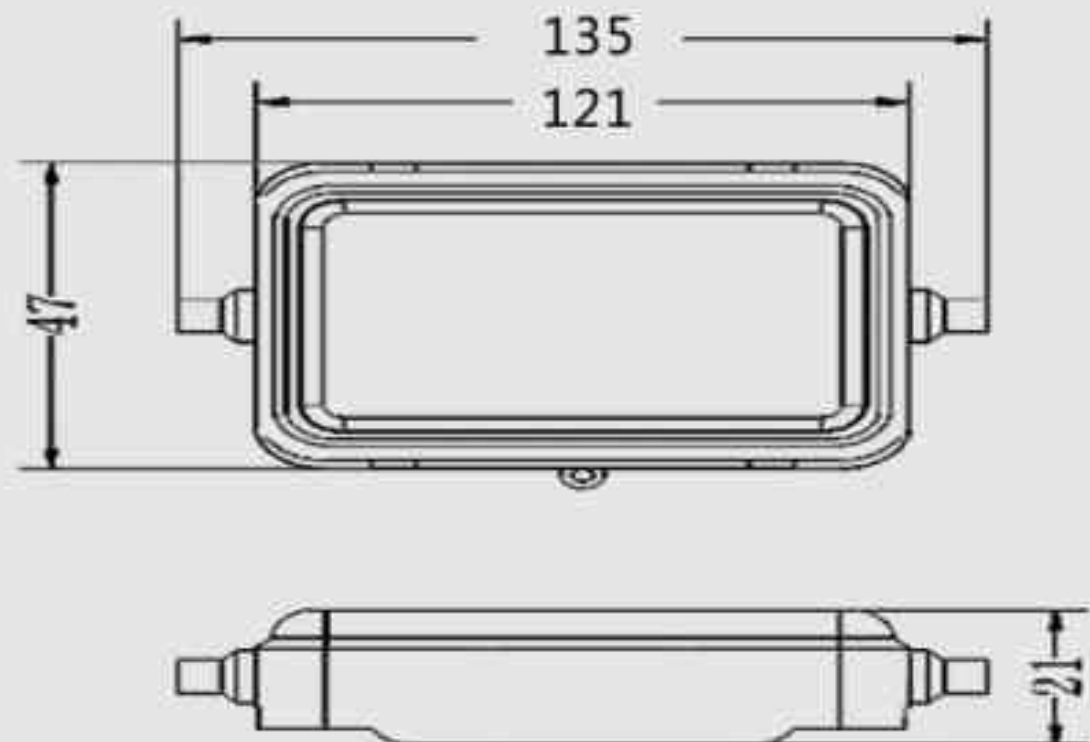
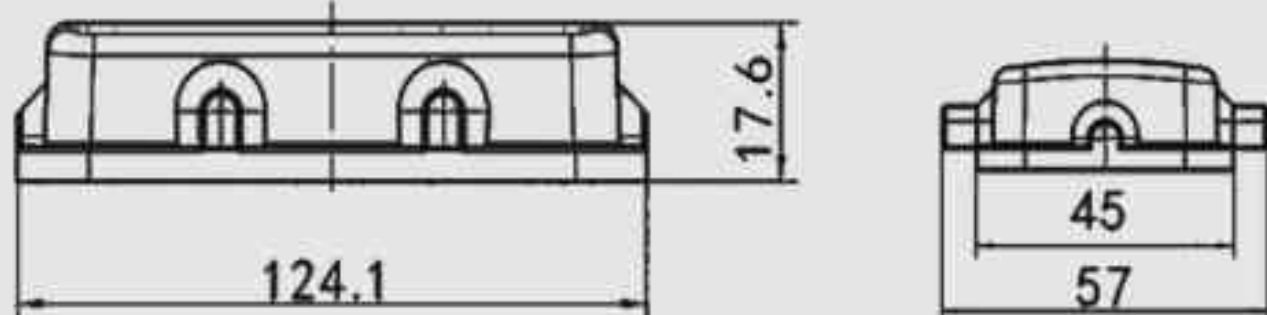
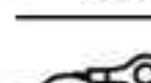
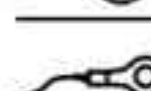
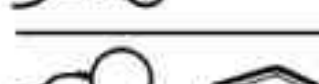
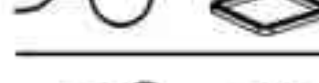
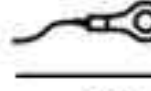
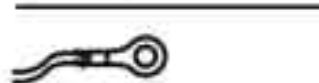
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, surface mounting 	M20	H24B-CTT/P-1L-M20	2 024 326 10 120		
	M25	H24B-CTT/P-1L-M25	2 024 326 10 125		
	M32	H24B-CTT/P-1L-M32	2 024 326 10 132		
	PG13.5	H24B-CTT/P-1L-PG13.5	2 024 326 10 113		
	PG16	H24B-CTT/P-1L-PG16	2 024 326 10 116		
	PG21	H24B-CTT/P-1L-PG21	2 024 326 10 121		
Housings, cable to cable 	M20	H24B-CTTH/P-1L-M25	2 024 348 10 125		
	M25	H24B-CTTH/P-1L-M40	2 024 348 10 140		
	M32	H24B-CTTH/P-1L-M32	2 024 348 10 132		
	M40	H24B-CTTH/P-1L-M40	2 024 348 10 140		
	PG13.5	H24B-CTTH/P-1L-PG13.5	2 024 348 10 113		
	PG16	H24B-CTTH/P-1L-PG16	2 024 348 10 116		
	PG21	H24B-CTTH/P-1L-PG21	2 024 348 10 121		
	PG29	H24B-CTTH/P-1L-PG29	2 024 348 10 129		
Housings, cable to cable 	M20	H24B-CTT/P-2L-M20	2 024 326 20 120		
	M25	H24B-CTT/P-2L-M25	2 024 326 20 125		
	M32	H24B-CTT/P-2L-M32	2 024 326 20 132		
	PG13.5	H24B-CTT/P-2L-PG13.5	2 024 326 20 113		
	PG16	H24B-CTT/P-2L-PG16	2 024 326 20 116		
	PG21	H24B-CTT/P-2L-PG21	2 024 326 20 121		
Housings, cable to cable 	M20	H24B-CTTH/P-2L-M20	2 024 348 20 120		
	M25	H24B-CTTH/P-2L-M25	2 024 348 20 125		
	M32	H24B-CTTH/P-2L-M32	2 024 348 20 132		
	M40	H24B-CTTH/P-2L-M40	2 024 348 20 140		
	PG13.5	H24B-CTTH/P-2L-PG13.5	2 024 348 20 113		
	PG16	H24B-CTTH/P-2L-PG16	2 024 348 20 116		
	PG21	H24B-CTTH/P-2L-PG21	2 024 348 20 121		
	PG29	H24B-CTTH/P-2L-PG29	2 024 348 20 129		

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Protection covers 		H24B-CV-2B/1N	2 024 315 01 082		
		H24B-CV-2B/1N1	2 024 315 01 083		
		H24B-CV-2B/2N	2 024 315 01 084		
		H24B-CV-2B/2N1	2 024 315 01 085		
		H24B-CV-2B/1C	2 024 315 01 092		
		H24B-CV-2B/1C1	2 024 315 01 093		
		H24B-CV-2B/2C	2 024 315 01 094		
		H24B-CV-2B/2C1	2 024 315 01 095		
Protection covers 		H24B-CV-4B	2 024 315 04 000		
		H24B-CV-4B/N	2 024 315 04 080		
		H24B-CV-4B/N1	2 024 315 04 081		
		H24B-CV-4B/C	2 024 315 04 090		
		H24B-CV-4B/C1	2 024 315 04 091		
Protection covers 		H24B-CV-4B/1N	2 024 315 05 082		
		H24B-CV-4B/1N1	2 024 315 05 083		
		H24B-CV-4B/2N	2 024 315 05 084		
		H24B-CV-4B/2N1	2 024 315 05 085		
		H24B-CV-4B/1C	2 024 315 05 092		
		H24B-CV-4B/1C1	2 024 315 05 093		
		H24B-CV-4B/2C	2 024 315 05 094		
		H24B-CV-4B/2C1	2 024 315 05 095		

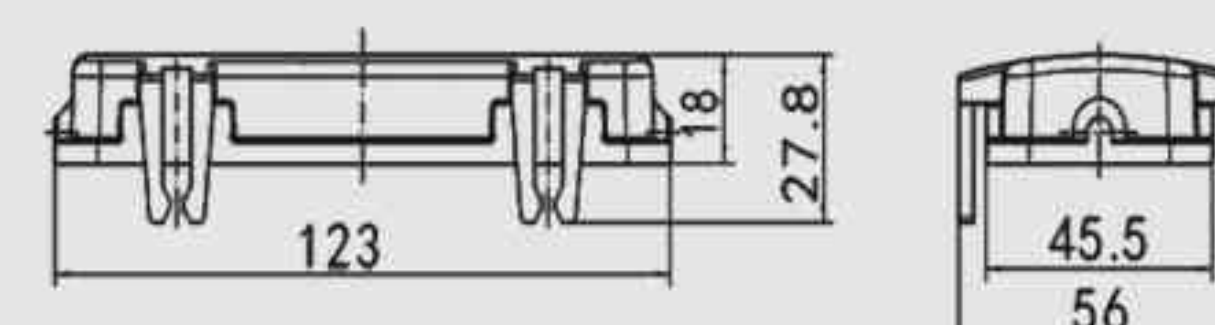
H24B

Metal hoods

Protection covers



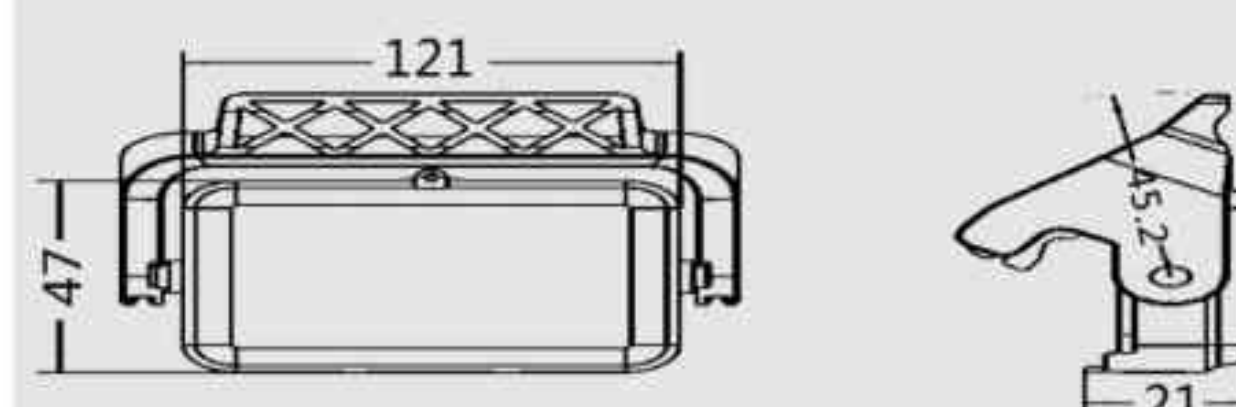
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	H24B-CV-4C/N	2 024 315 30 080
	H24B-CV-4C/N1	2 024 315 30 081
	H24B-CV-4C/C	2 024 315 30 090
	H24B-CV-4C/C1	2 024 315 30 091



Protection covers



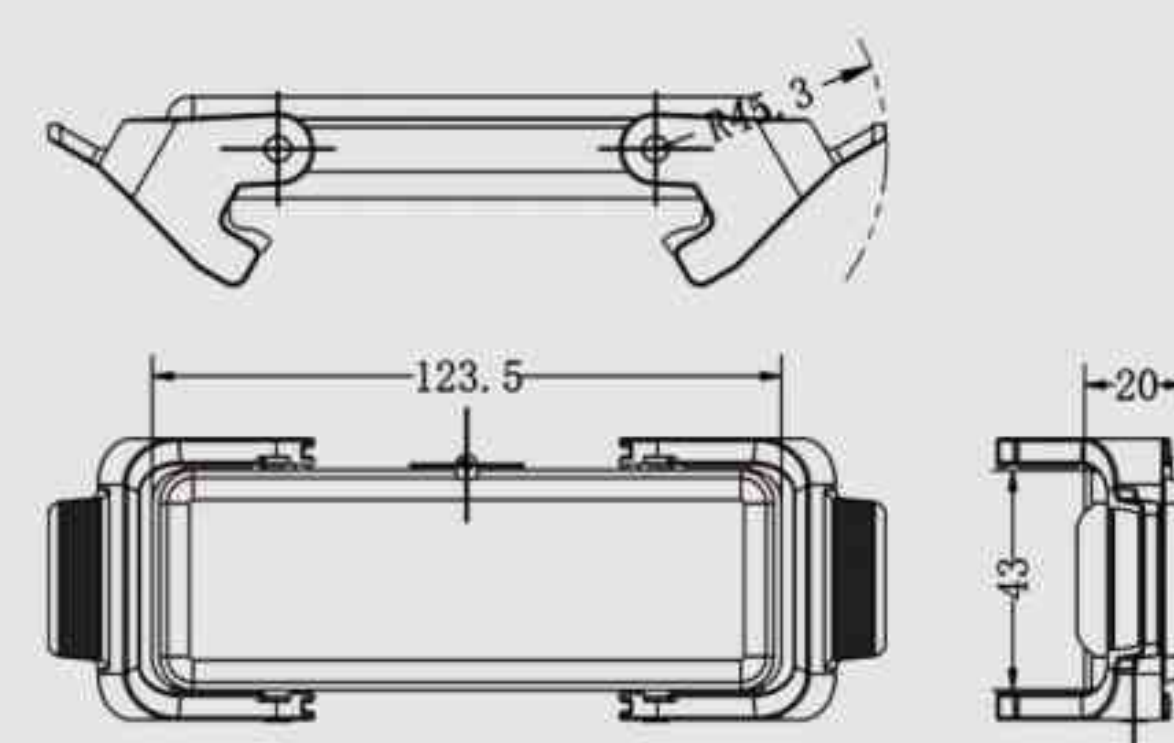
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		H24B-CV-1L/N	2 024 315 14 080
		H24B-CV-1L/N1	2 024 315 14 081
		H24B-CV-1L/C	2 024 315 14 090
		H24B-CV-1L/C1	2 024 315 14 091



Protection covers

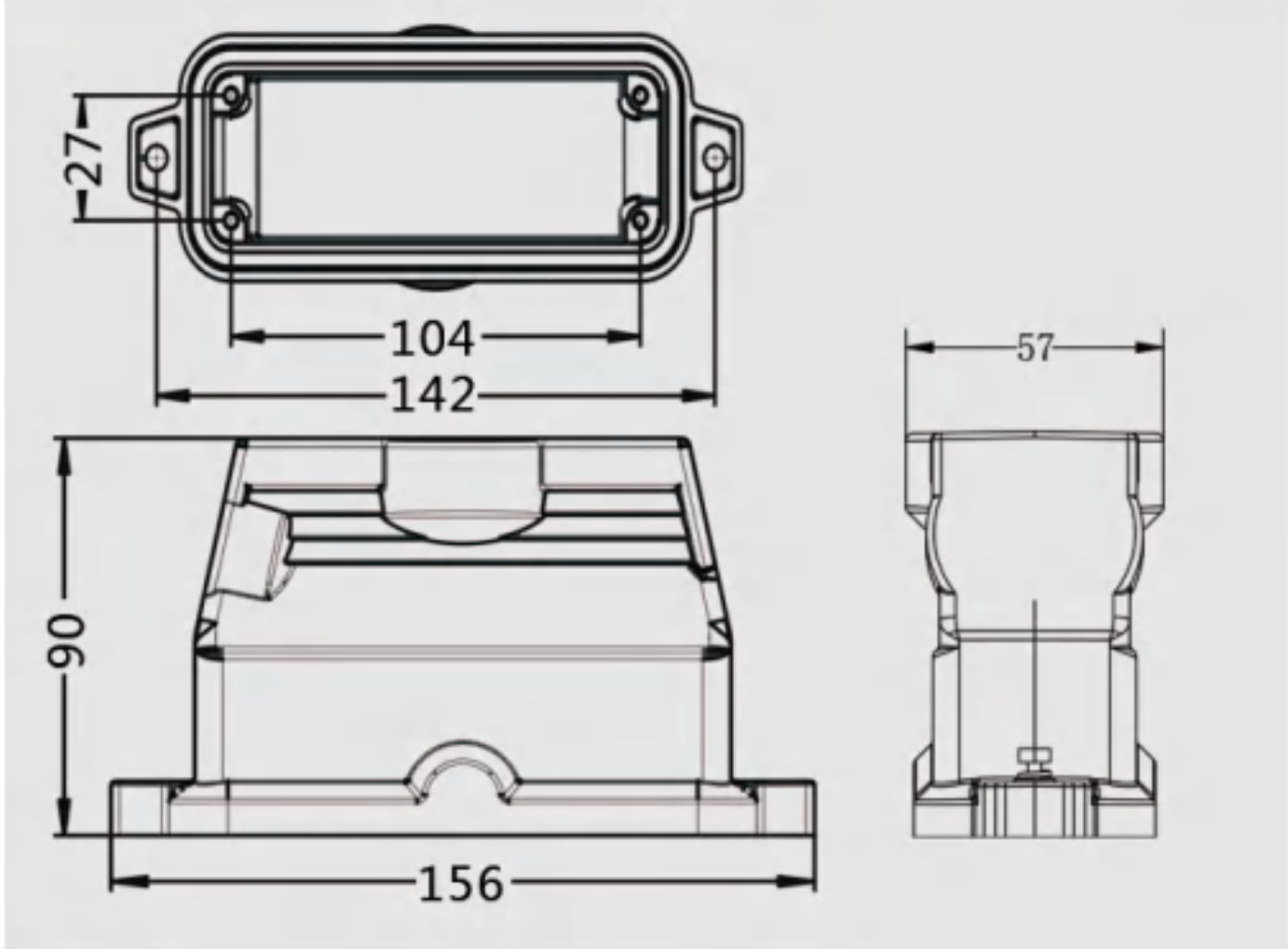
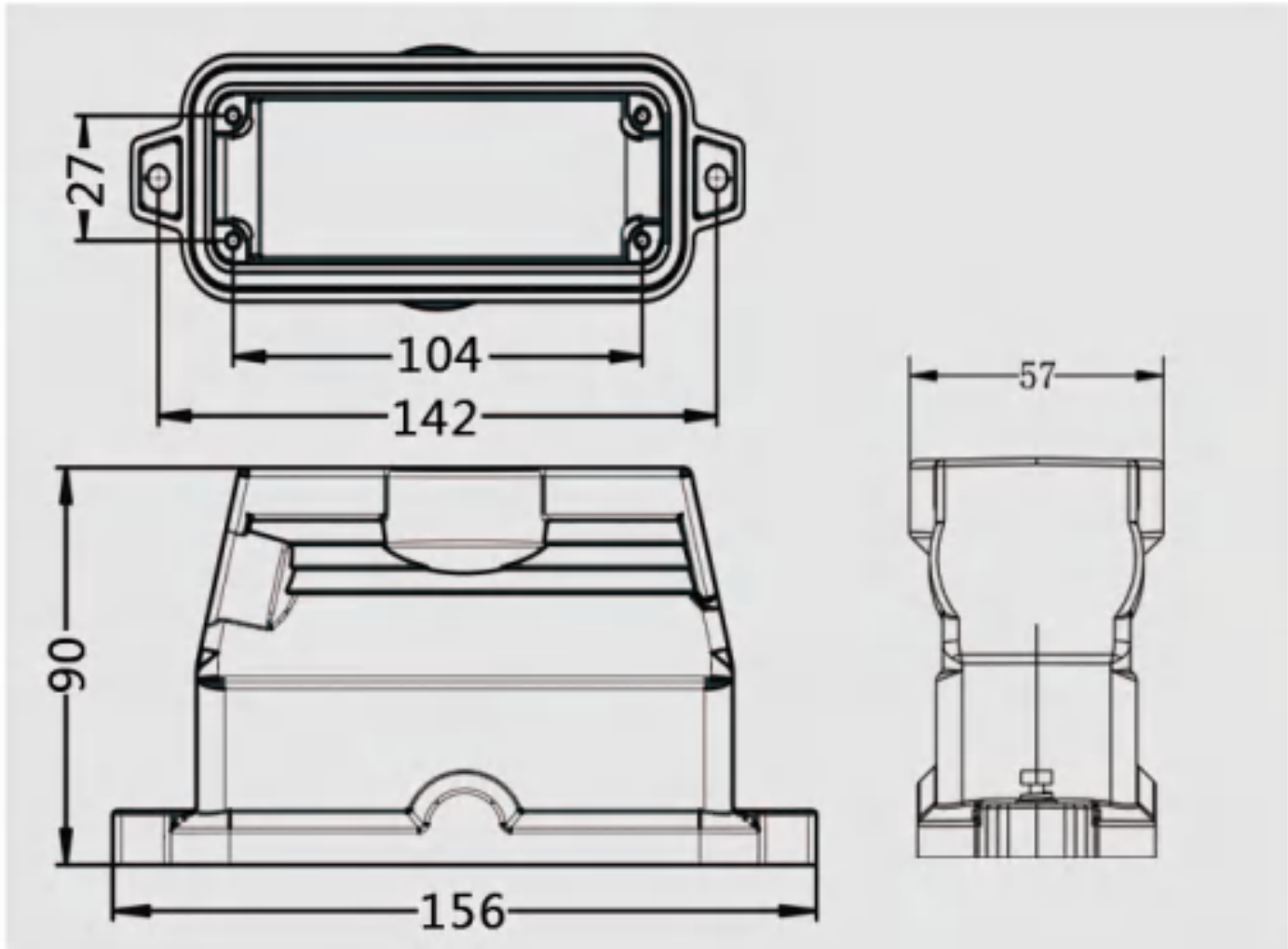
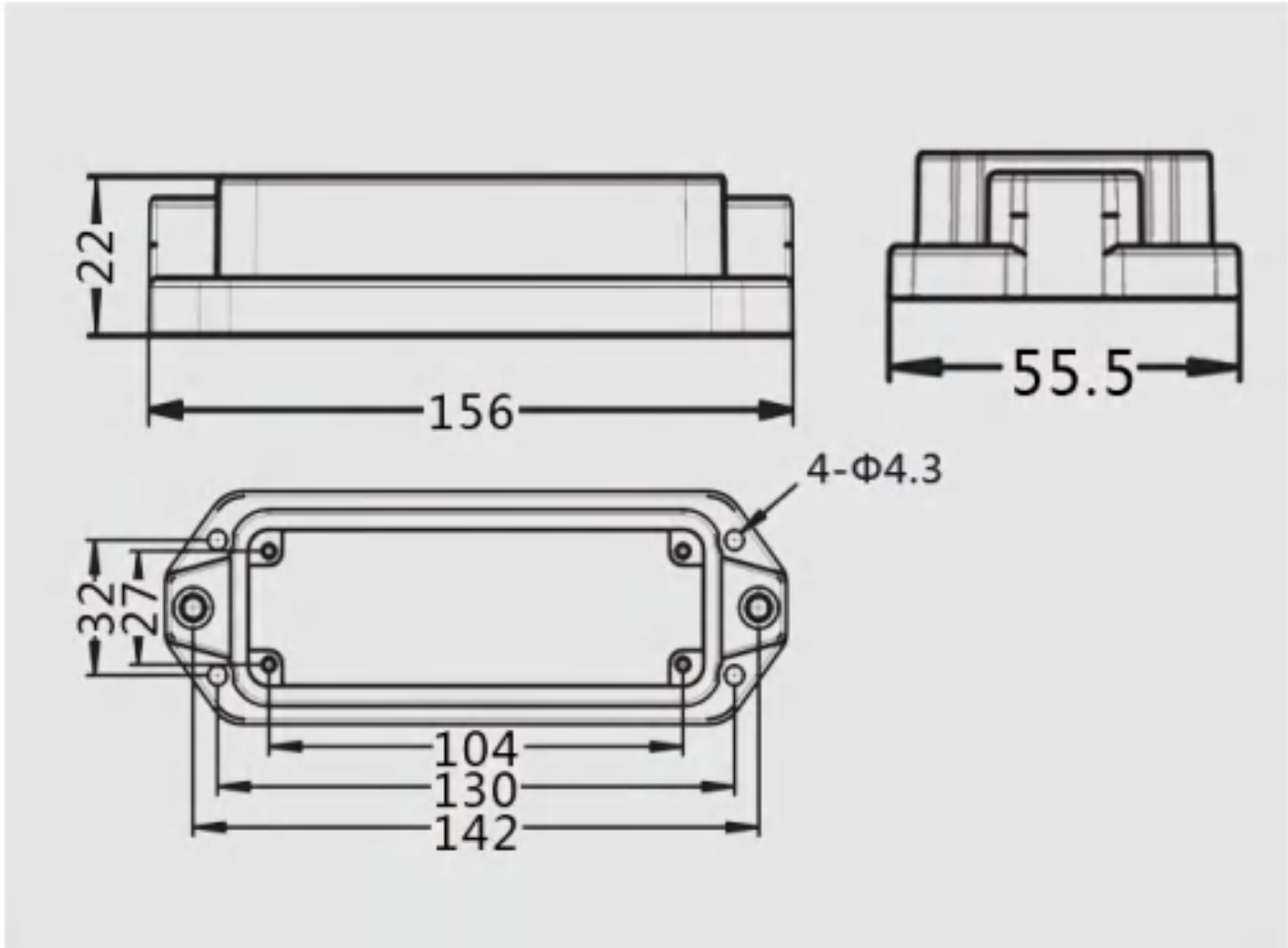
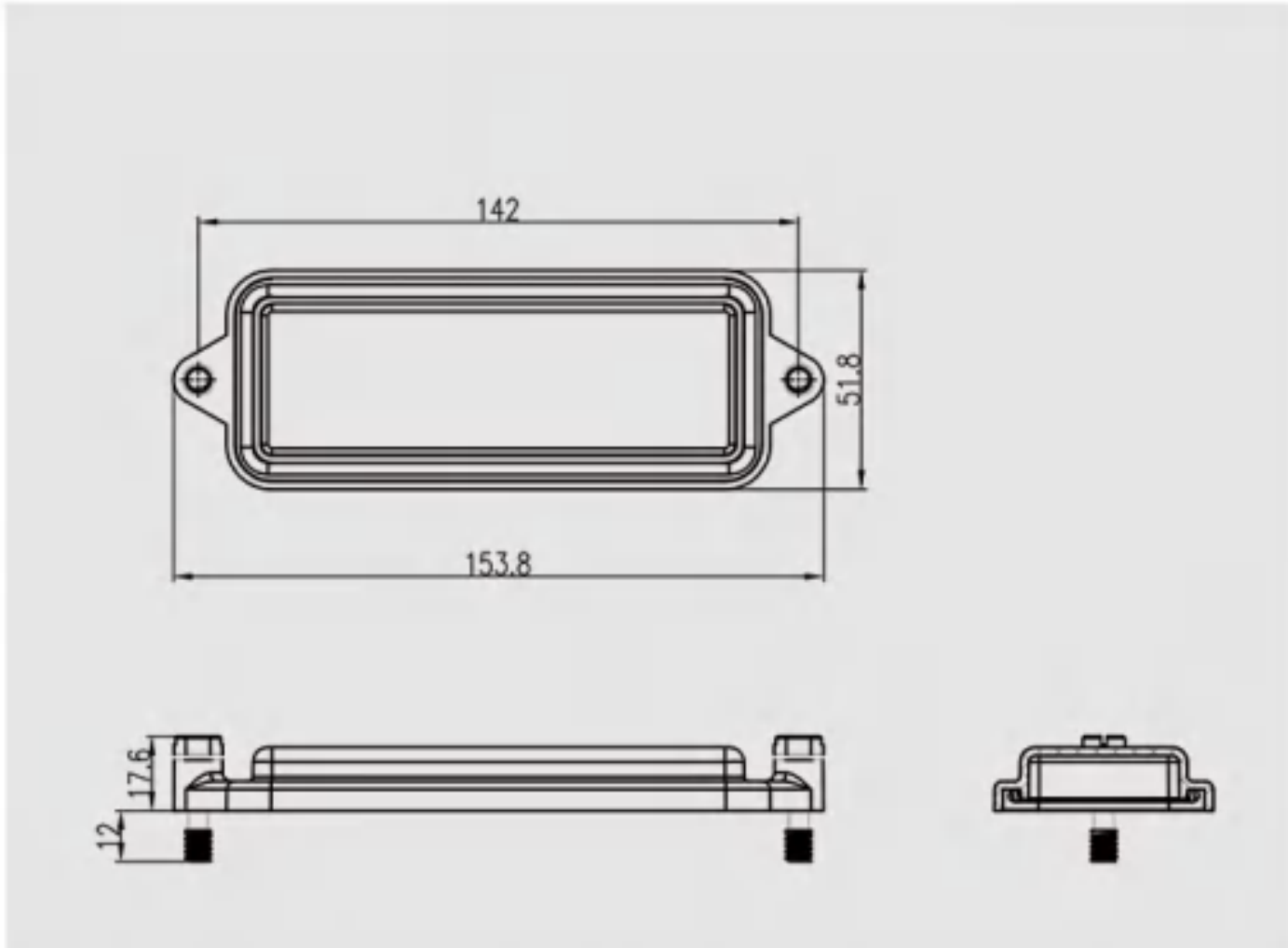


		H24B-CV-2L	2 024 315 21 000
		H24B-CV-2L/N	2 024 315 21 080
		H24B-CV-2L/N1	2 024 315 21 081
		H24B-CV-2L/C	2 024 315 21 090
		H24B-CV-2L/C1	2 024 315 21 091



Degree of protection: IP68

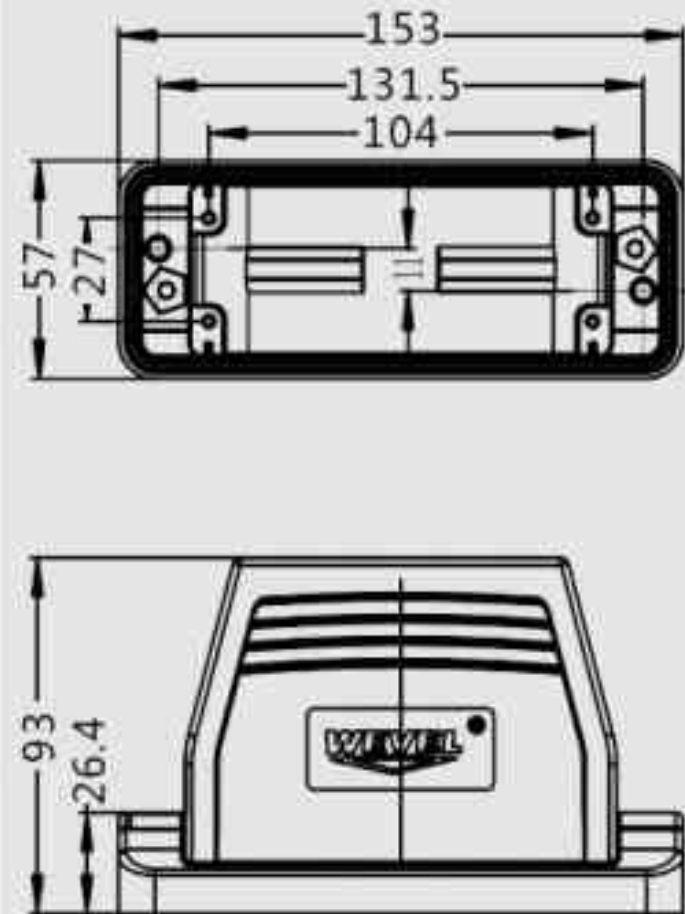
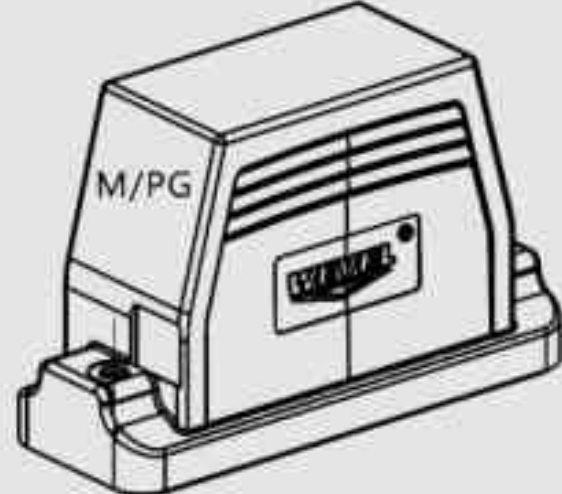
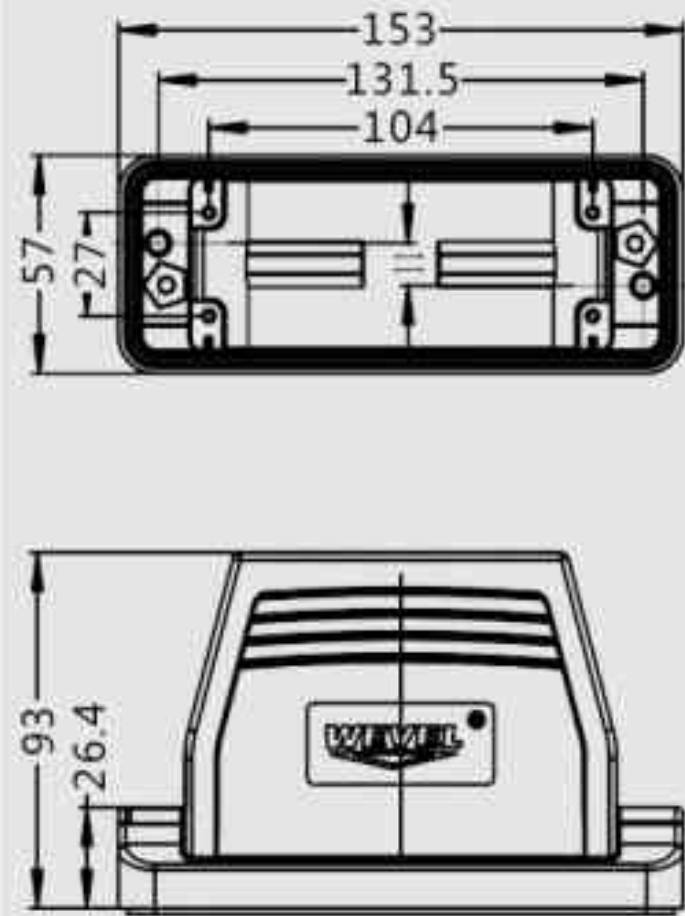
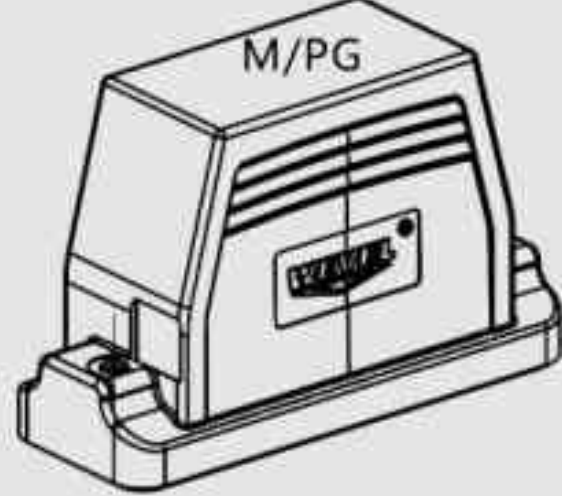
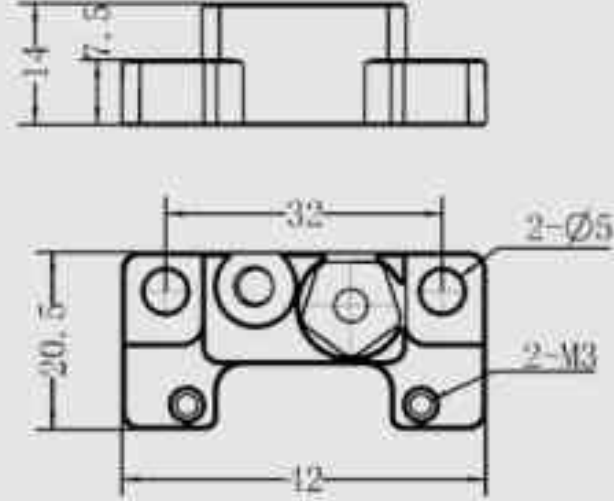
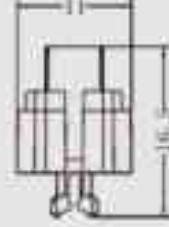
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction 	M20	H24BPR-SOH-2T-M20	2 024 304 40 120		
	M25	H24BPR-SOH-2T-M25	2 024 304 40 125		
	M32	H24BPR-SOH-2T-M32	2 024 304 40 132		
	M40	H24BPR-SOH-2T-M40	2 024 304 40 140		
	PG16	H24BPR-SOH-2T-PG16	2 024 304 40 116		
	PG21	H24BPR-SOH-2T-PG21	2 024 304 40 121		
	PG29	H24BPR-SOH-2T-PG29	2 024 304 40 129		
Hoods, top entry, high construction 	M20	H24BPR-TOH-2T-M20	2 024 303 40 120		
	M25	H24BPR-TOH-2T-M25	2 024 303 40 125		
	M32	H24BPR-TOH-2T-M32	2 024 303 40 132		
	M40	H24BPR-TOH-2T-M40	2 024 303 40 140		
	PG16	H24BPR-TOH-2T-PG16	2 024 303 40 116		
	PG21	H24BPR-TOH-2T-PG21	2 024 303 40 121		
	PG29	H24BPR-TOH-2T-PG29	2 024 303 40 129		
Housings, bulkhead mounting 	H24BPR-HB-2T		2 024 306 40 000		
Protection covers 	H24BPR-CV-2T		2 024 315 00 000		

H24B

Degree of protection: IP68

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction 	M20	H24BPR-SOH-2T/C-M20	2 024 304 42 120	 	
	M25	H24BPR-SOH-2T/C-M25	2 024 304 42 125		
	M32	H24BPR-SOH-2T/C-M32	2 024 304 42 132		
	M40	H24BPR-SOH-2T/C-M40	2 024 304 42 140		
	PG16	H24BPR-SOH-2T/C-PG16	2 024 304 42 116		
	PG21	H24BPR-SOH-2T/C-PG21	2 024 304 42 121		
	PG29	H24BPR-SOH-2T/C-PG29	2 024 304 42 129		
Hoods, top entry, high construction 	M20	H24BPR-TOH-2T/C-M20	2 024 303 42 120	 	
	M25	H24BPR-TOH-2T/C-M25	2 024 303 42 125		
	M32	H24BPR-TOH-2T/C-M32	2 024 303 42 132		
	M40	H24BPR-TOH-2T/C-M40	2 024 303 42 140		
	PG16	H24BPR-TOH-2T/C-PG16	2 024 303 42 116		
	PG21	H24BPR-TOH-2T/C-PG21	2 024 303 42 121		
	PG29	H24BPR-TOH-2T/C-PG29	2 024 303 42 129		
Fixed 	HB-2T/C		2 000 306 42 000		
Coding Element 	CODE-2T/C		3 000 091 00 200		

Degree of protection: IP68

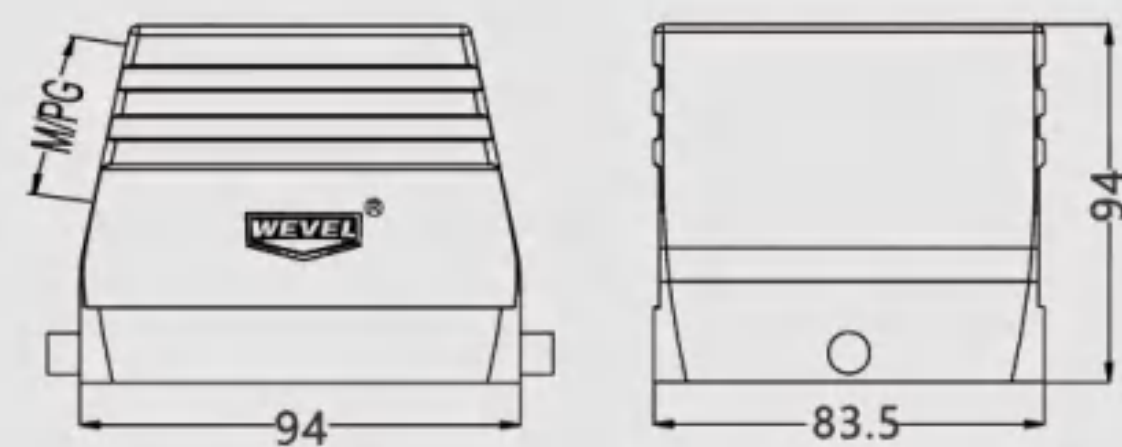
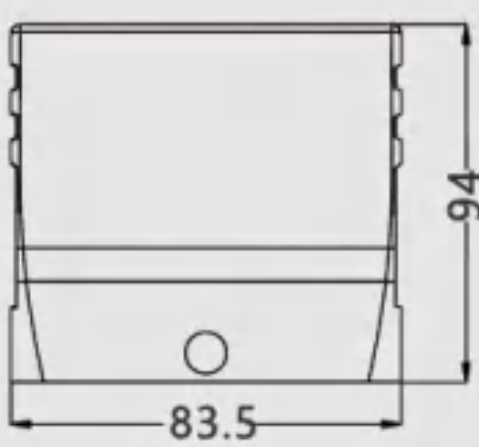
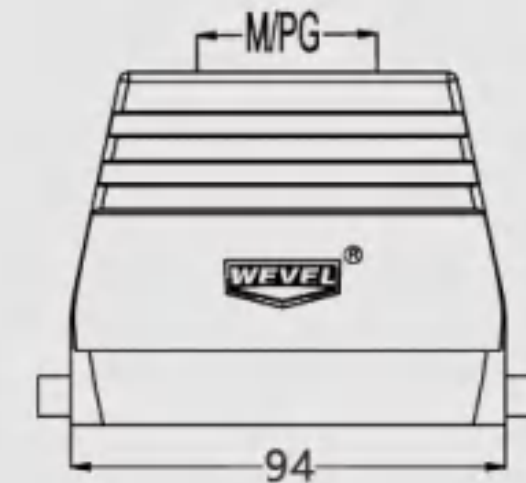
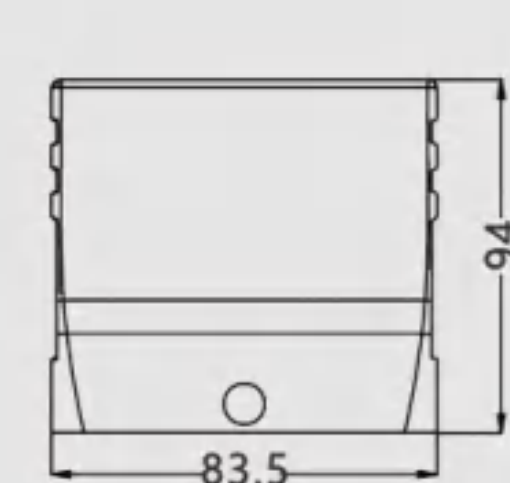
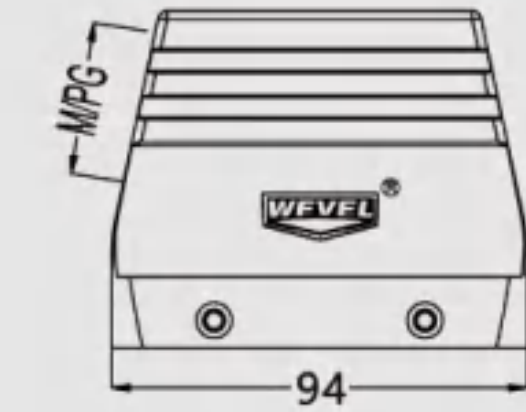
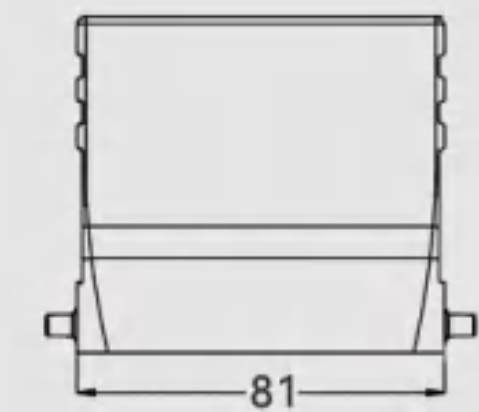
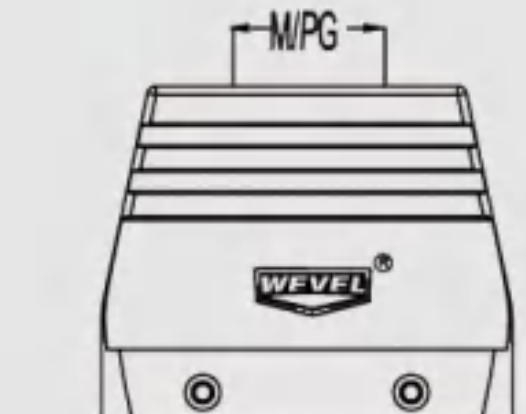
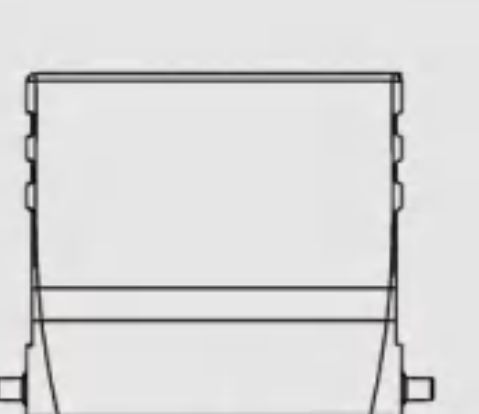
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry, high construction	M20	H24BPR-SOH-2T/H-M20	2 024 304 41 120		
	M25	H24BPR-SOH-2T/H-M25	2 024 304 41 125		
	M32	H24BPR-SOH-2T/H-M32	2 024 304 41 132		
	M40	H24BPR-SOH-2T/H-M40	2 024 304 41 140		
	PG16	H24BPR-SOH-2T/H-PG16	2 024 304 41 116		
	PG21	H24BPR-SOH-2T/H-PG21	2 024 304 41 121		
	PG29	H24BPR-SOH-2T/H-PG29	2 024 304 41 129		
Hoods, top entry, high construction	M20	H24BPR-TOH-2T/H-M20	2 024 303 41 120		
	M25	H24BPR-TOH-2T/H-M25	2 024 303 41 125		
	M32	H24BPR-TOH-2T/H-M32	2 024 303 41 132		
	M40	H24BPR-TOH-2T/H-M40	2 024 303 41 140		
	PG16	H24BPR-TOH-2T/H-PG16	2 024 303 41 116		
	PG21	H24BPR-TOH-2T/H-PG21	2 024 303 41 121		
	PG29	H24BPR-TOH-2T/H-PG29	2 024 303 41 129		
Housings, bulkhead mounting	H24BPR-HB-2T/H		2 024 306 41 000		
Protection covers	H24BPR-MCV-2T/H/N		2 024 327 41 080		
Protection covers	H24BPR-CV-2T/H/N		2 024 315 41 080		

H24B

Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry 	M25	H32B-SO-2B-M25	2 032 302 02 125		
	M32	H32B-SO-2B-M32	2 032 302 02 132		
	M40	H32B-SO-2B-M40	2 032 302 02 140		
	M50	H32B-SO-2B-M50	2 032 302 02 150		
	PG16	H32B-SO-2B-PG16	2 032 302 02 116		
	PG21	H32B-SO-2B-PG21	2 032 302 02 121		
	PG29	H32B-SO-2B-PG29	2 032 302 02 129		
	PG36	H32B-SO-2B-PG36	2 032 302 02 136		
Hoods, top entry 	M25	H32B-TO-2B-M25	2 032 301 02 125		
	M32	H32B-TO-2B-M32	2 032 301 02 132		
	M40	H32B-TO-2B-M40	2 032 301 02 140		
	M50	H32B-TO-2B-M50	2 032 301 02 150		
	PG16	H32B-TO-2B-PG16	2 032 301 02 116		
	PG21	H32B-TO-2B-PG21	2 032 301 02 121		
	PG29	H32B-TO-2B-PG29	2 032 301 02 129		
	PG36	H32B-TO-2B-PG36	2 032 301 02 136		
Hoods, side entry 	M25	H32B-SO-4B-M25	2 032 302 04 125		
	M32	H32B-SO-4B-M32	2 032 302 04 132		
	M40	H32B-SO-4B-M40	2 032 302 04 140		
	M50	H32B-SO-4B-M50	2 032 302 04 150		
	PG16	H32B-SO-4B-PG16	2 032 302 04 116		
	PG21	H32B-SO-4B-PG21	2 032 302 04 121		
	PG29	H32B-SO-4B-PG29	2 032 302 04 129		
	PG36	H32B-SO-4B-PG36	2 032 302 04 136		
Hoods, top entry 	M25	H32B-TO-4B-M25	2 032 301 04 125		
	M32	H32B-TO-4B-M32	2 032 301 04 132		
	M40	H32B-TO-4B-M40	2 032 301 04 140		
	M50	H32B-TO-4B-M50	2 032 301 04 150		
	PG16	H32B-TO-4B-PG16	2 032 301 04 116		
	PG21	H32B-TO-4B-PG21	2 032 301 04 121		
	PG29	H32B-TO-4B-PG29	2 032 301 04 129		
	PG36	H32B-TO-4B-PG36	2 032 301 04 136		

H32B

Metal hoods

H32B

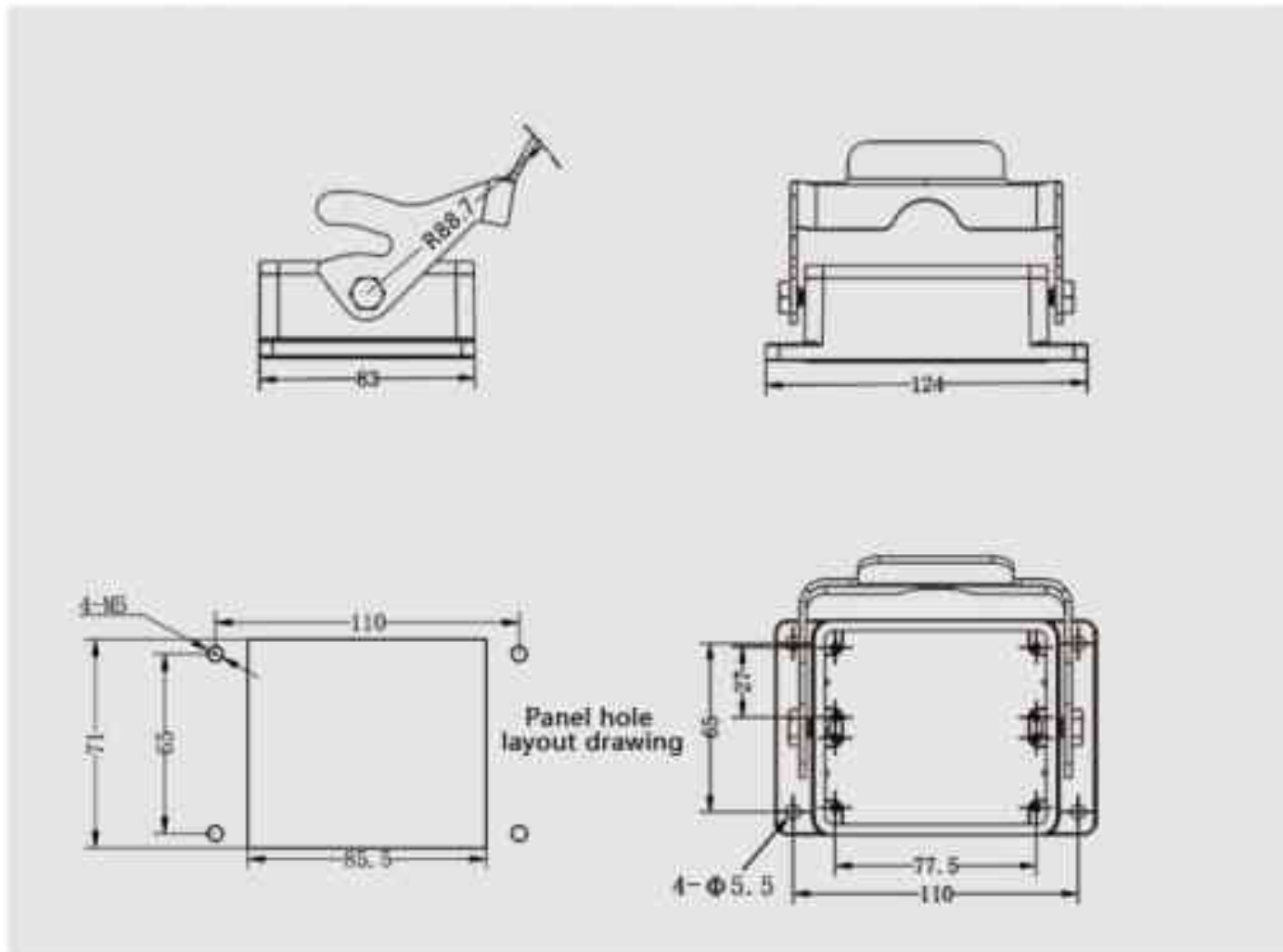
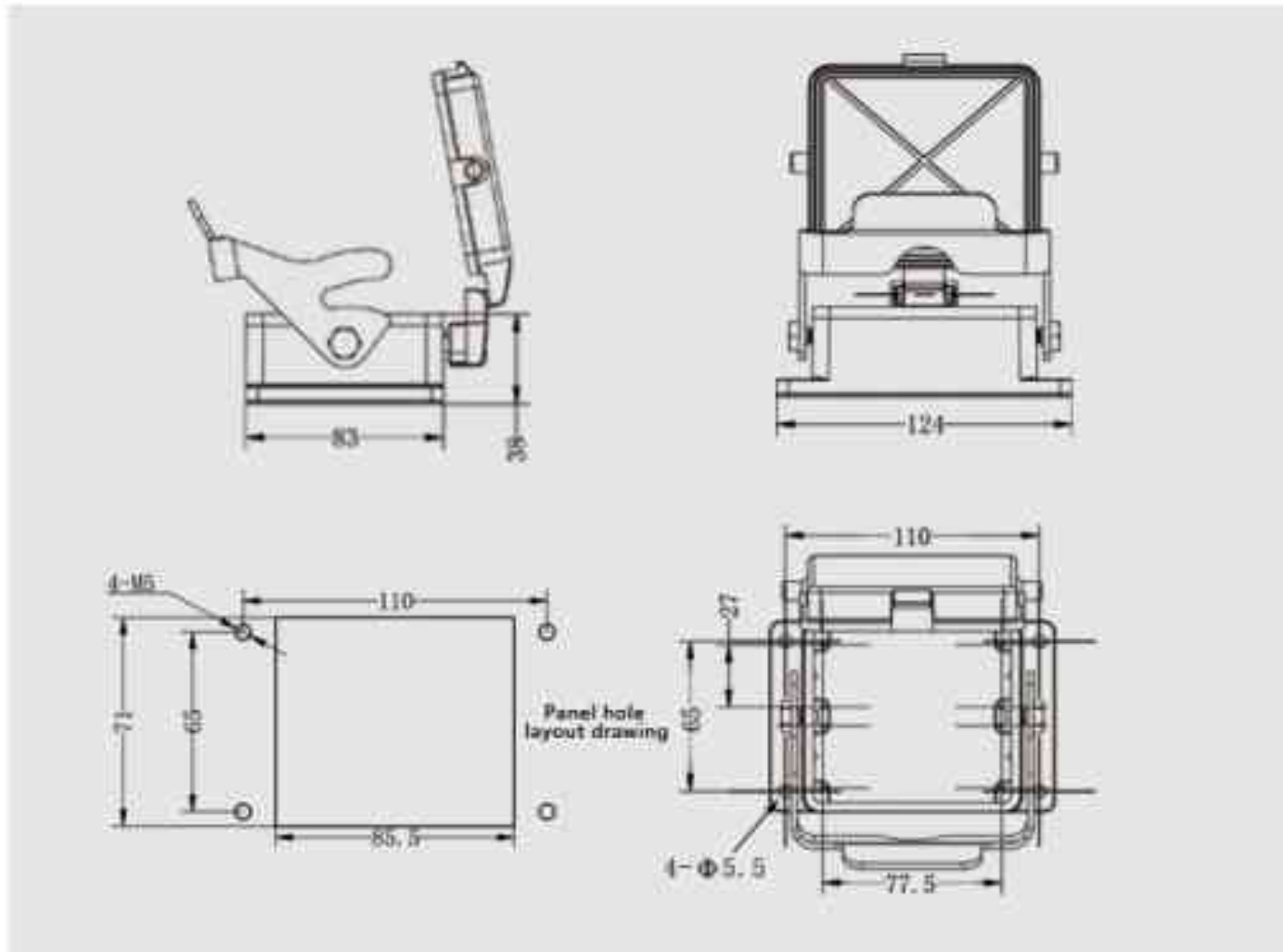
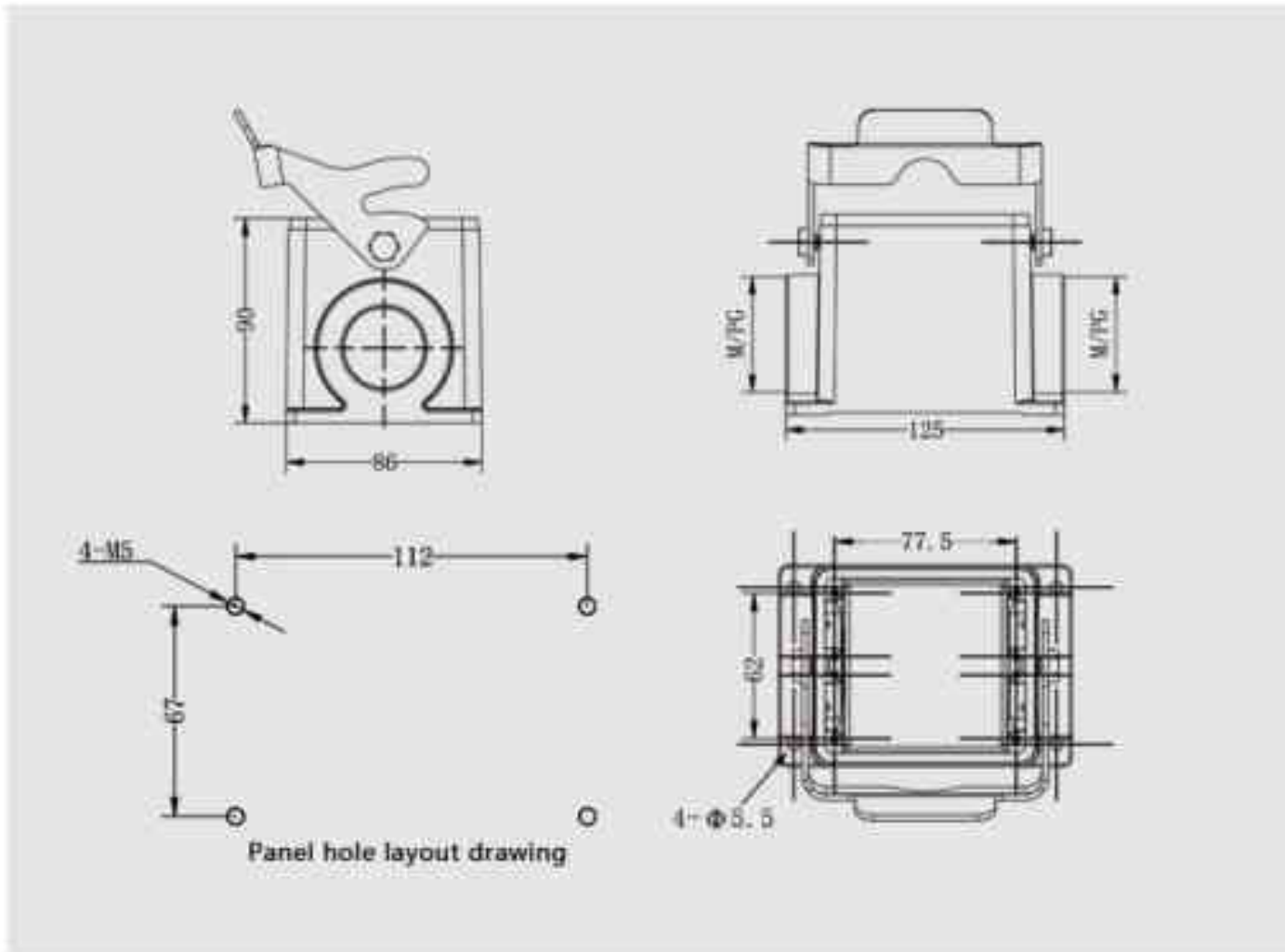
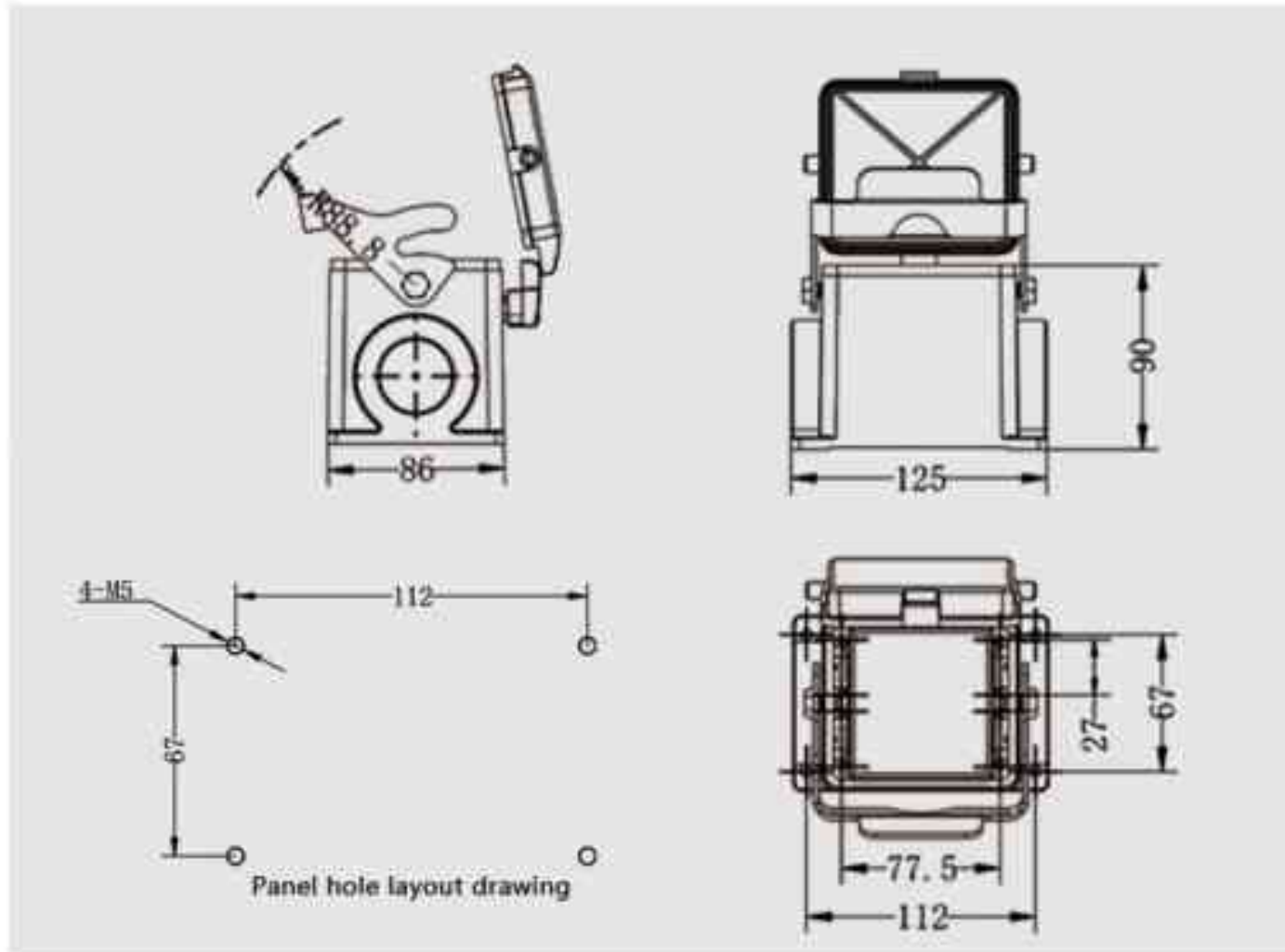
Degree of protection: IP65

Metal hoods

[illegible]

Degree of protection: IP65

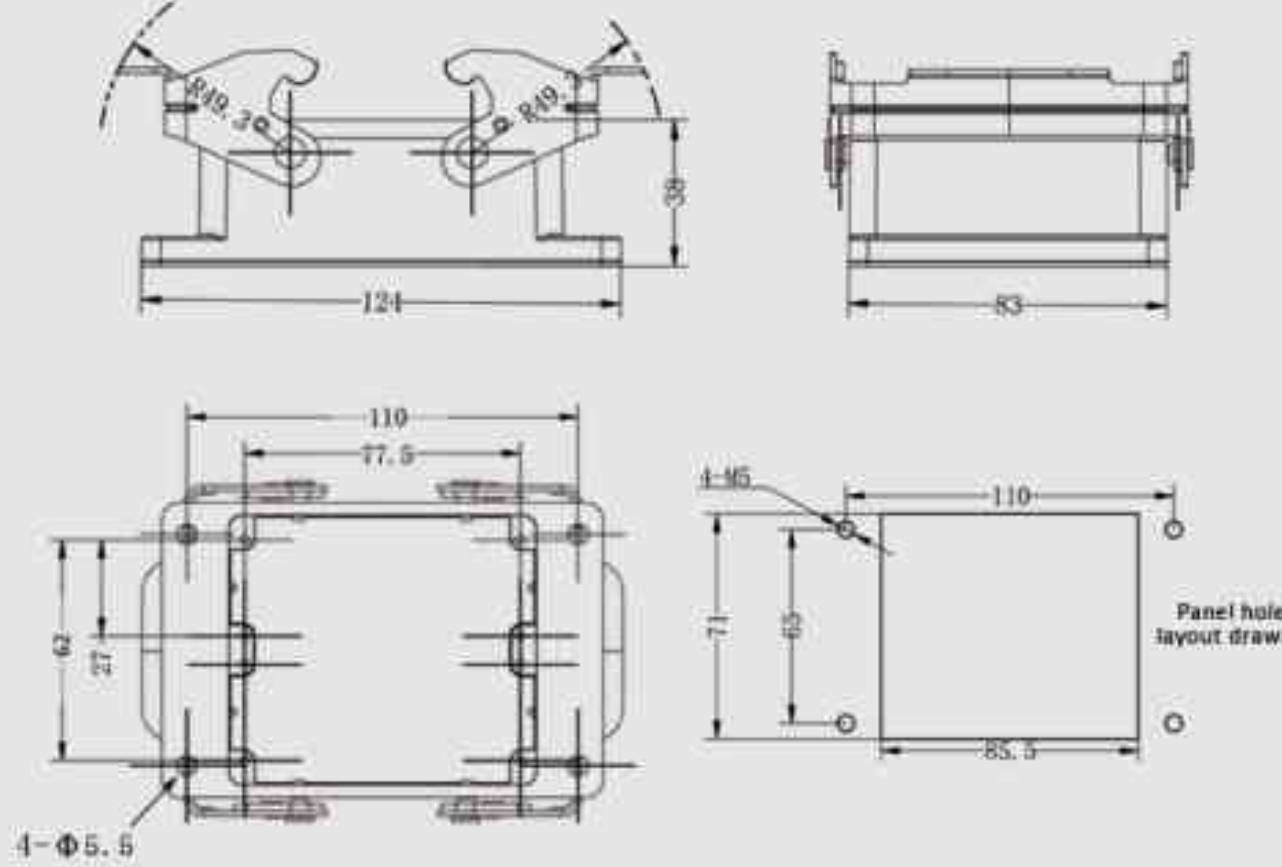
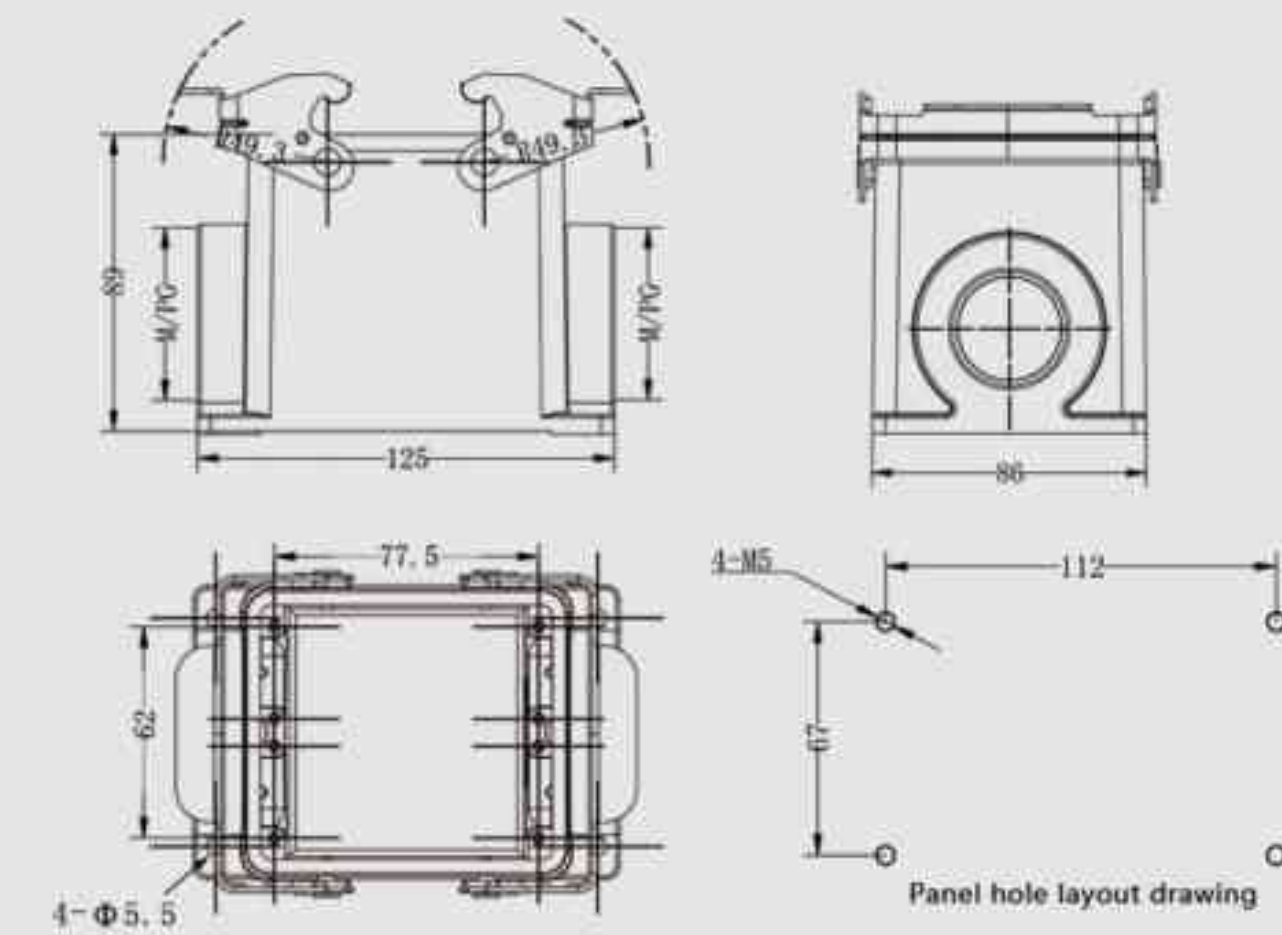
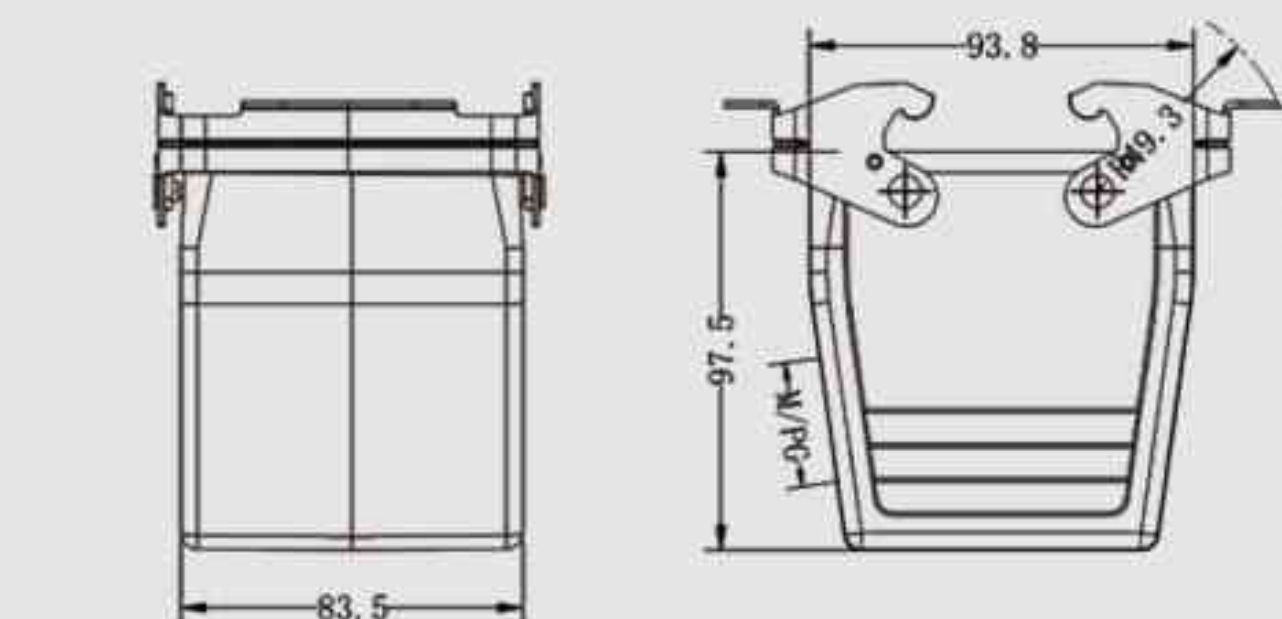
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H32B-HB-1L	2 032 306 10 000		
Housings, bulkhead mounting		H32B-HB-1L-CV	2 032 306 14 000		
Housings, surface mounting		M25 H32B-SM-1L-M25	2 032 307 10 125		
		M32 H32B-SM-1L-M32	2 032 307 10 132		
		M40 H32B-SM-1L-M40	2 032 307 10 140		
		PG16 H32B-SM-1L-PG16	2 032 307 10 116		
		PG21 H32B-SM-1L-PG21	2 032 307 10 121		
		PG29 H32B-SM-1L-PG29	2 032 307 10 129		
		PG36 H32B-SM-1L-PG36	2 032 307 10 136		
Housings, surface mounting		M25 H32B-SM-1L-CV-M25	2 032 307 14 125		
		M32 H32B-SM-1L-CV-M32	2 032 307 14 132		
		M40 H32B-SM-1L-CV-M40	2 032 307 14 140		
		PG16 H32B-SM-1L-CV-PG16	2 032 307 14 116		
		PG21 H32B-SM-1L-CV-PG21	2 032 307 14 121		
		PG29 H32B-SM-1L-CV-PG29	2 032 307 14 129		
		PG36 H32B-SM-1L-CV-PG36	2 032 307 14 136		

H32B

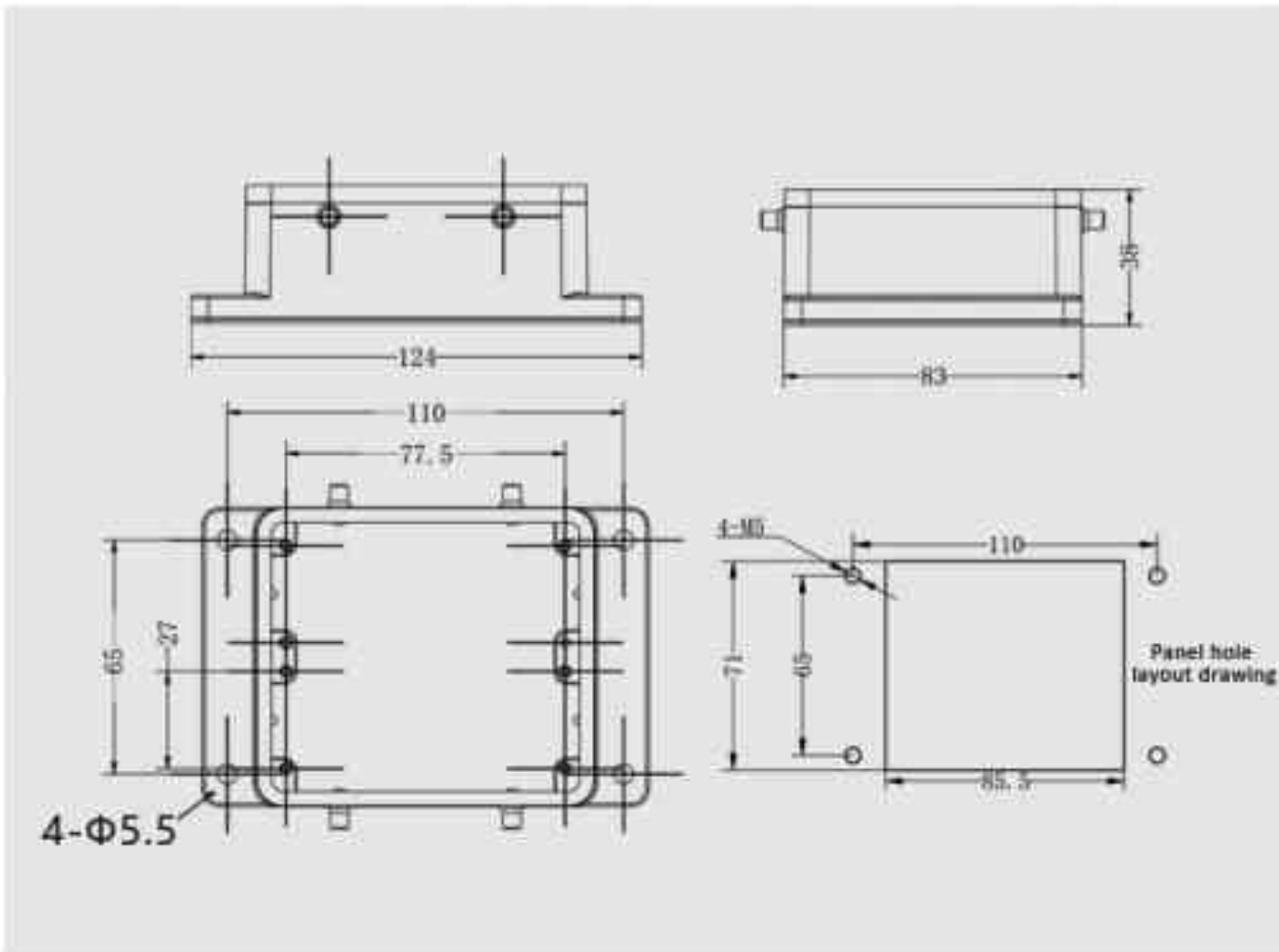
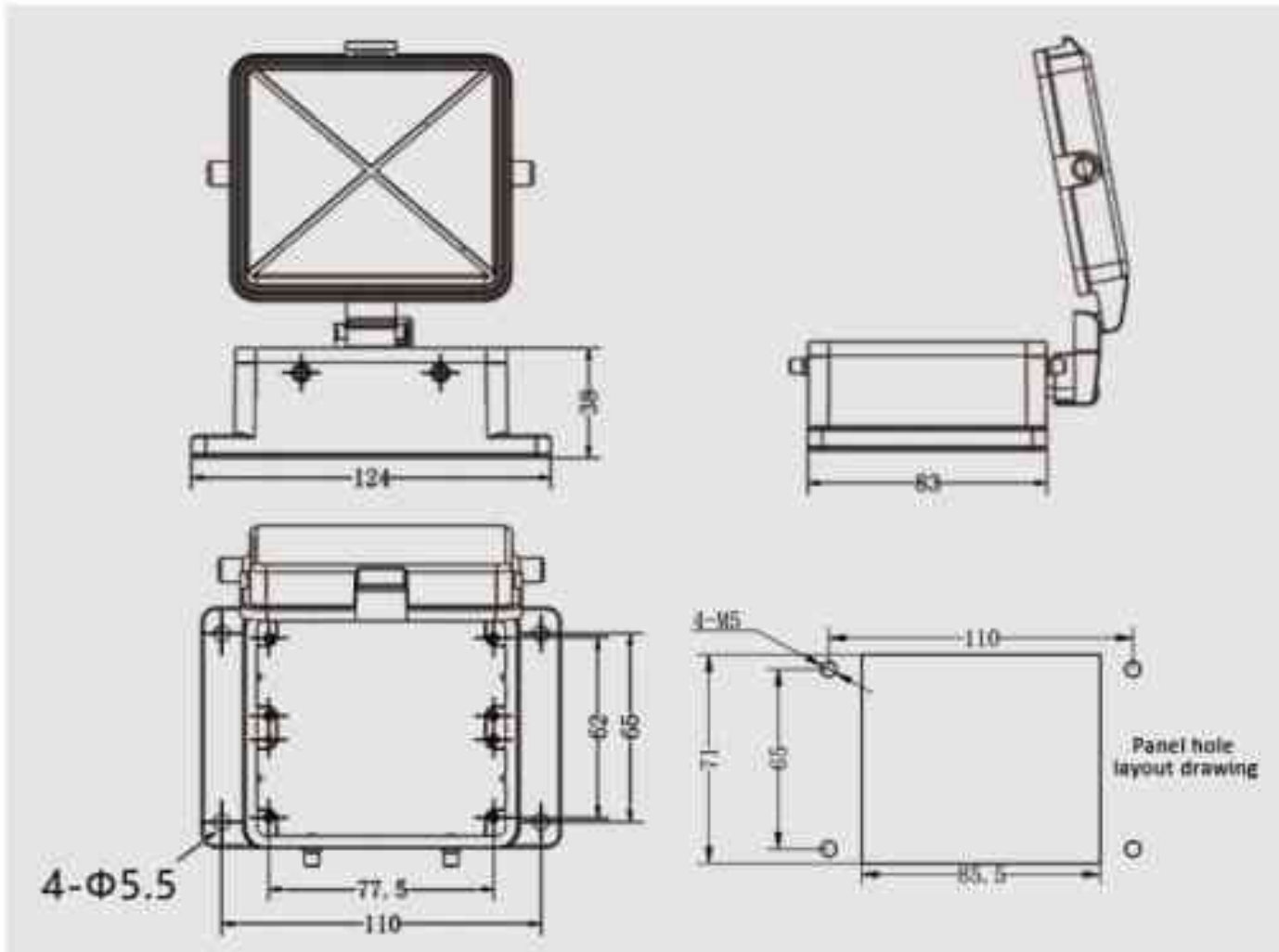
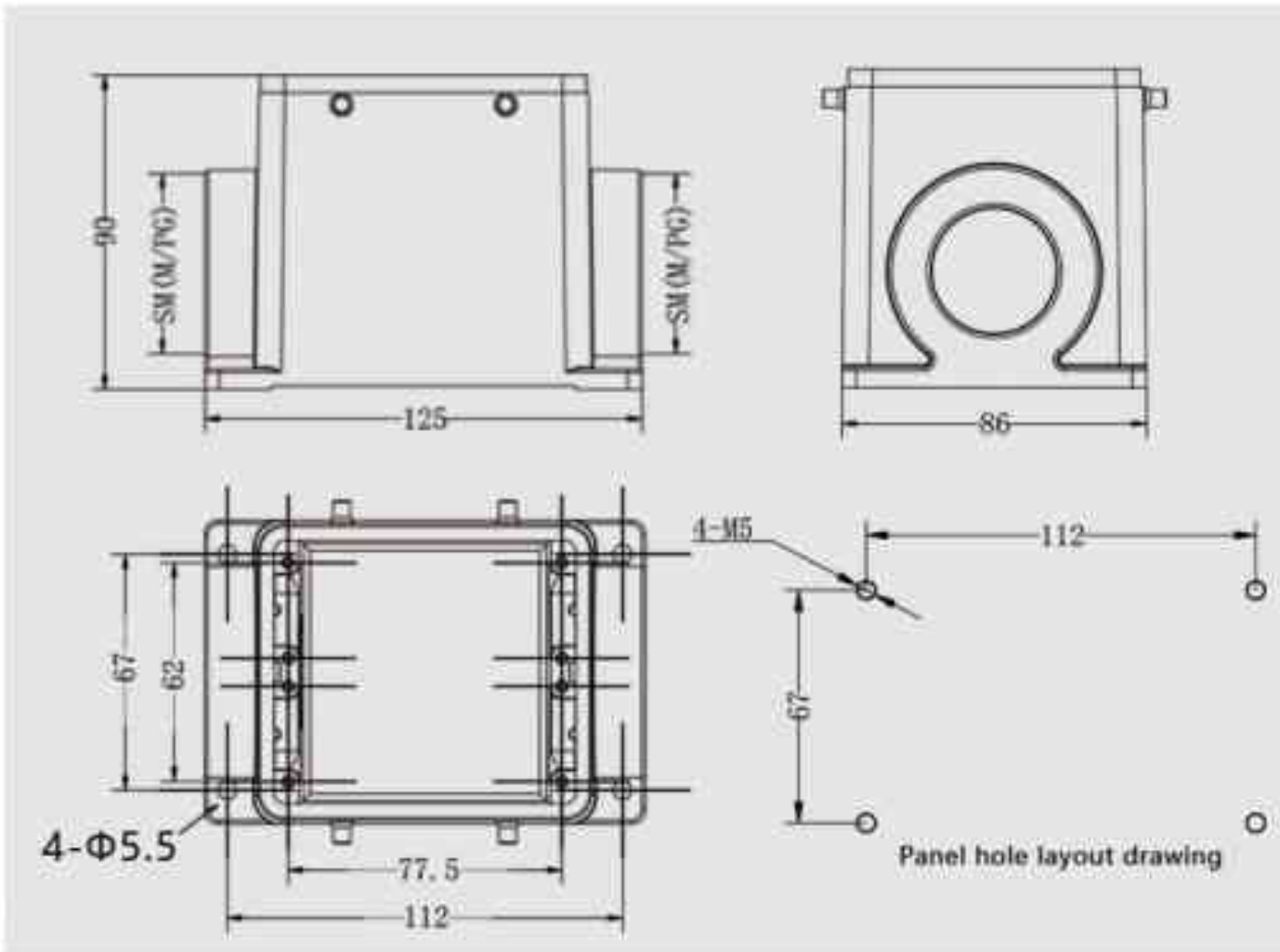
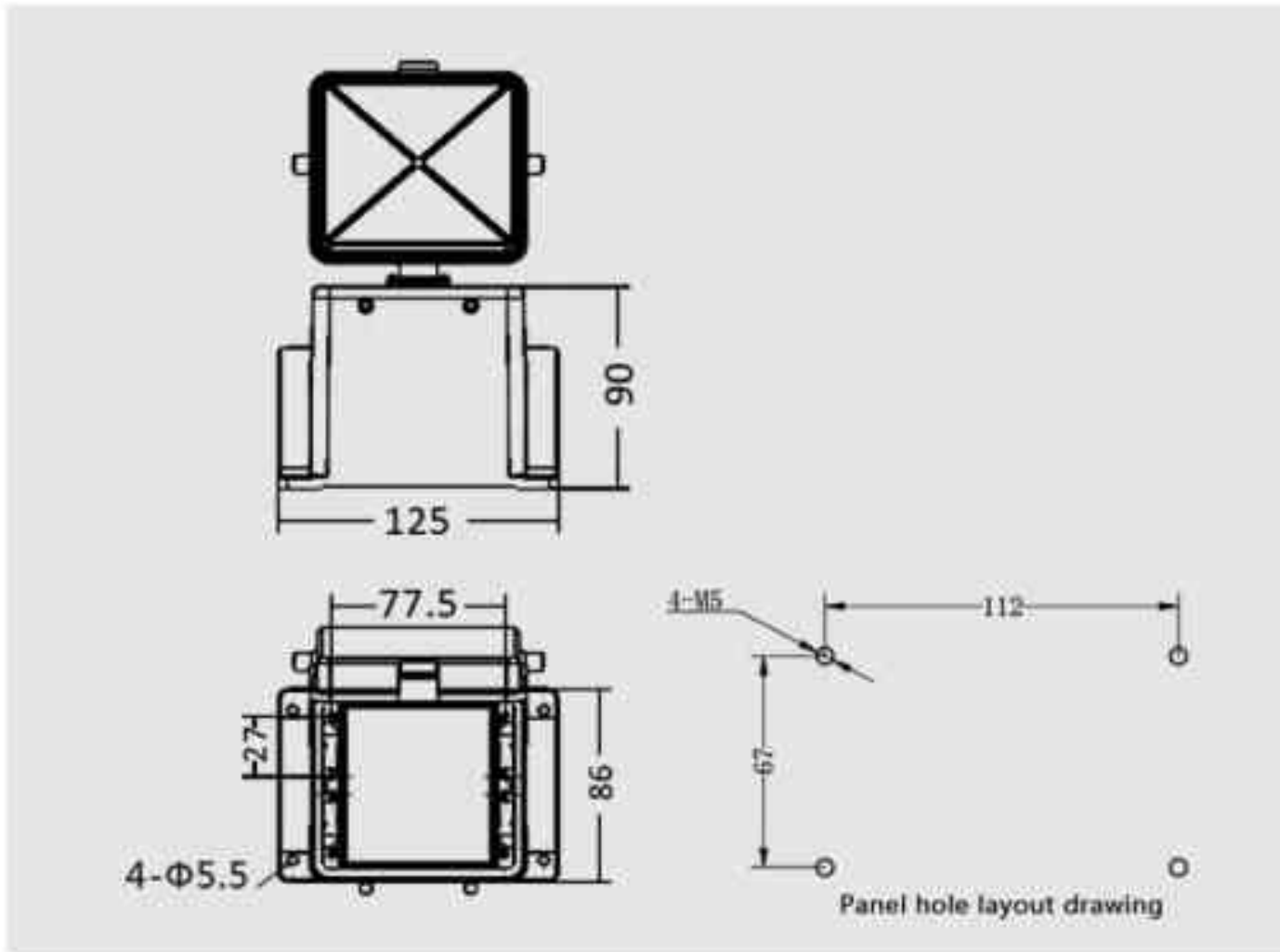
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods, side entry		H32B-HB-2L	2 032 306 20 000		
Hoods,top entry	M25 M32 M40 PG16 PG21 PG29 PG36	H32B-SM-2L-M25 H32B-SM-2L-M32 H32B-SM-2L-M40 H32B-SM-2L-PG16 H32B-SM-2L-PG21 H32B-SM-2L-PG29 H32B-SM-2L-PG36	2 032 307 20 125 2 032 307 20 132 2 032 307 20 140 2 032 307 20 116 2 032 307 20 121 2 032 307 20 129 2 032 307 20 136		
Housings, cable to cable	M25 M32 M40 PG16 PG21 PG29 PG36	H32B-CTT-2L-M25 H32B-CTT-2L-M32 H32B-CTT-2L-M40 H32B-CTT-2L-PG16 H32B-CTT-2L-PG21 H32B-CTT-2L-PG29 H32B-CTT-2L-PG36	2 032 309 20 125 2 032 309 20 132 2 032 309 20 140 2 032 309 20 116 2 032 309 20 121 2 032 309 20 129 2 032 309 20 136		

Degree of protection: IP65

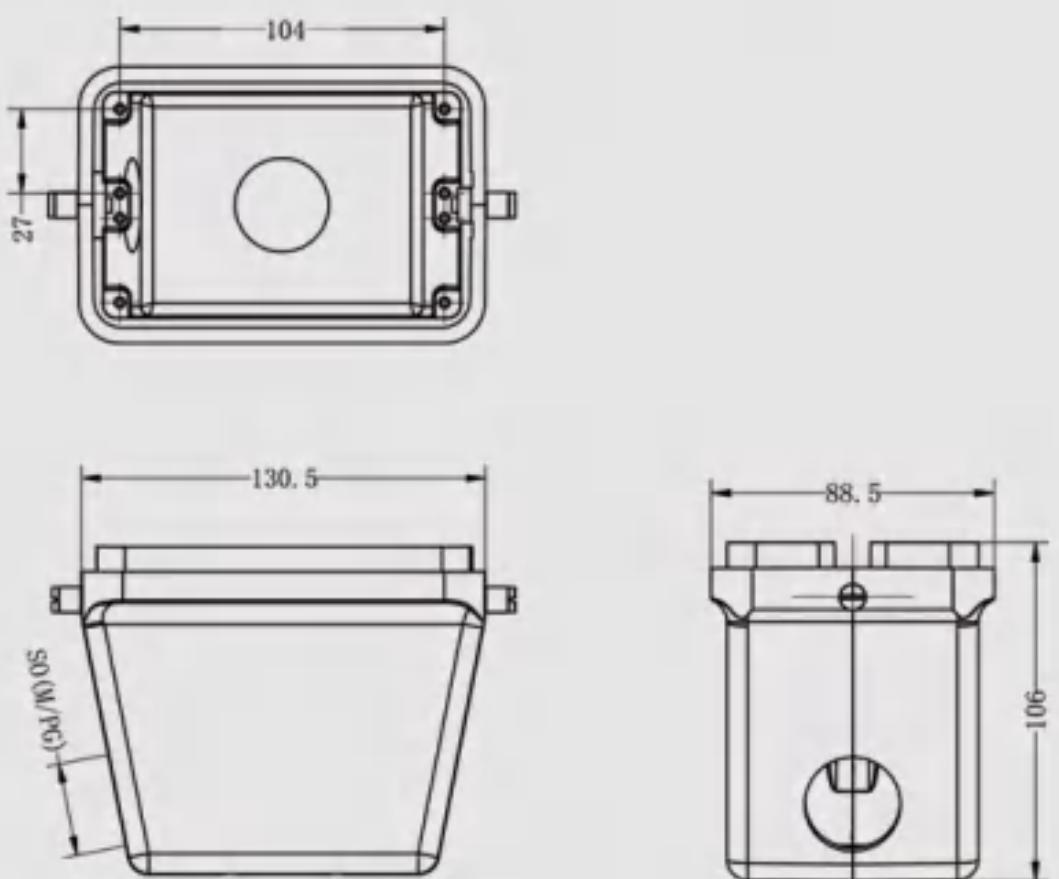
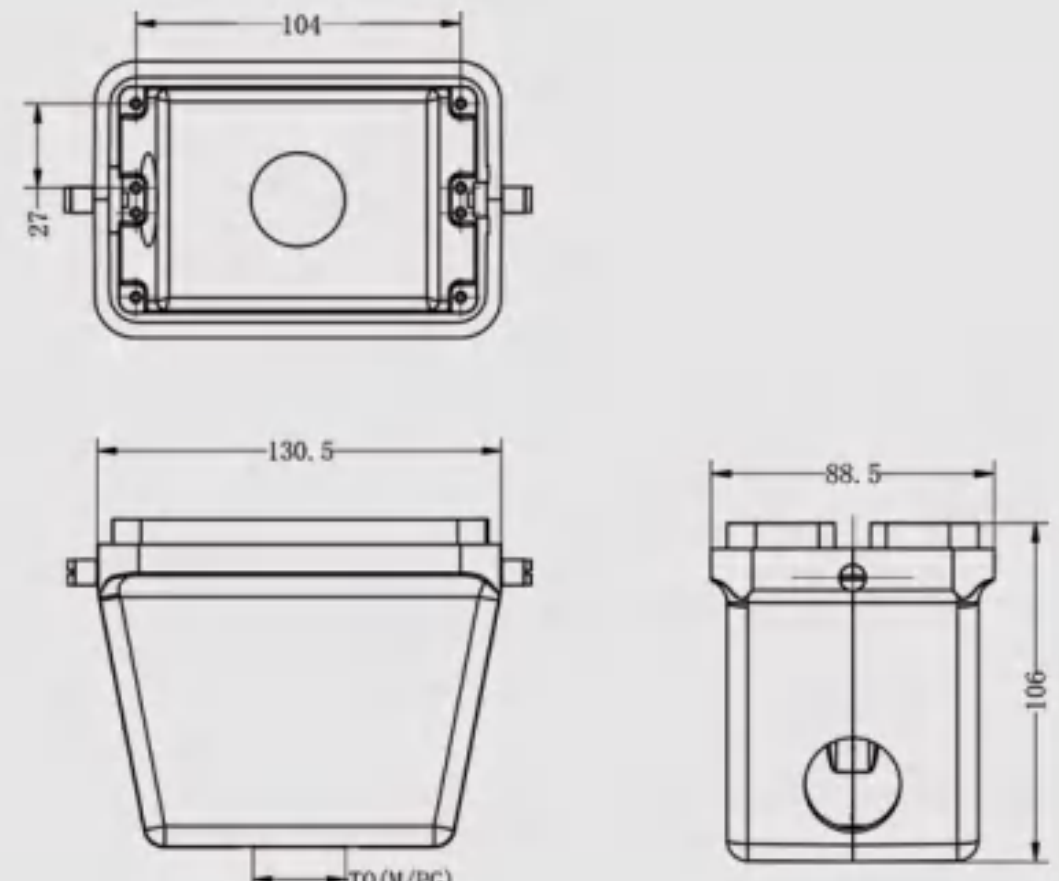
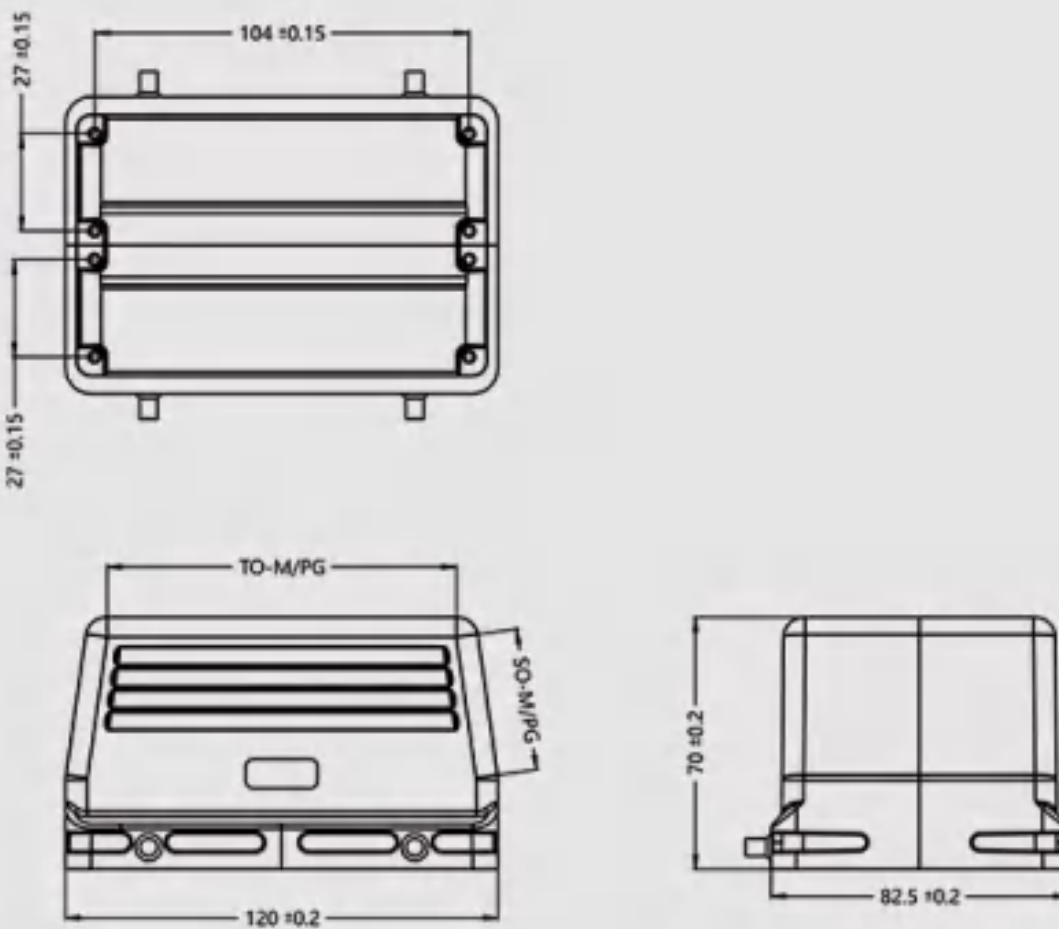
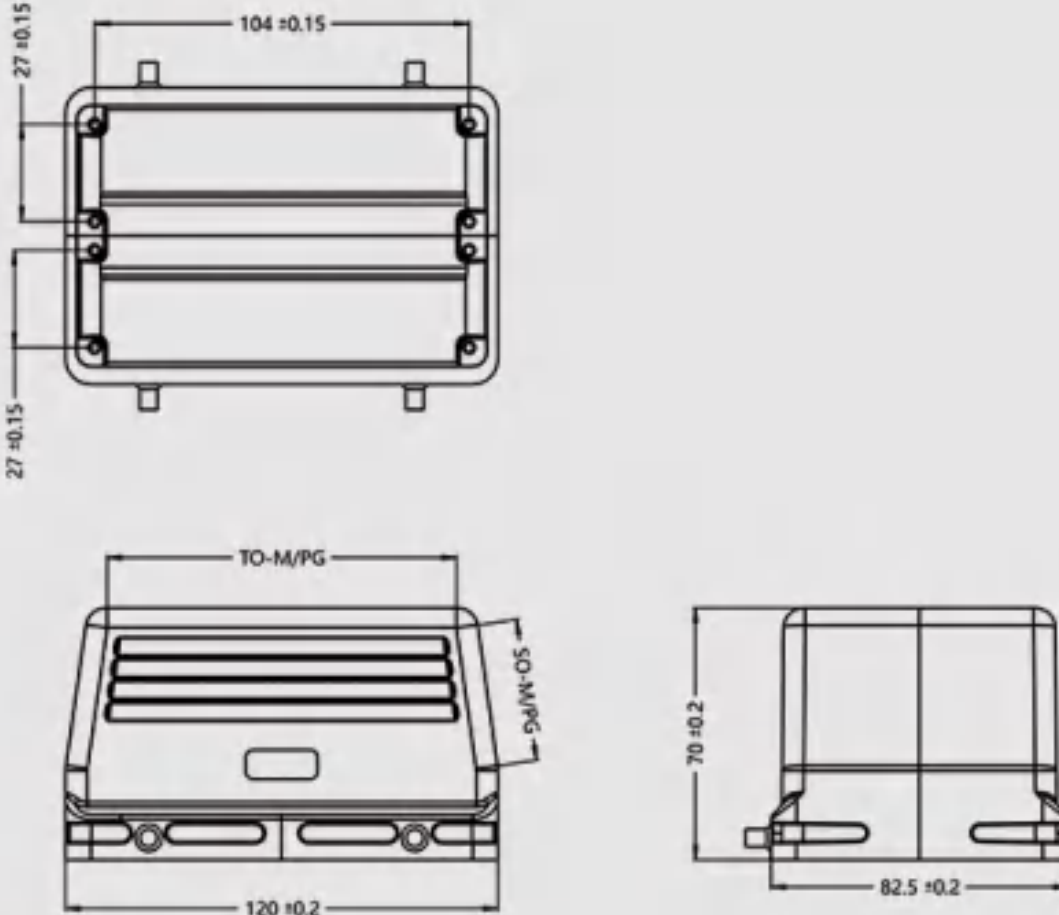
Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H32B-HB-4B	2 032 306 04 000		
Housings, bulkhead mounting		H32B-HB-4B-CV	2 032 306 05 000		
Housings, surface mounting		M25 H32B-SM-4B-M25 2 032 307 04 125 M32 H32B-SM-4B-M32 2 032 307 04 132 M40 H32B-SM-4B-M40 2 032 307 04 140 PG16 H32B-SM-4B-PG16 2 032 307 04 116 PG21 H32B-SM-4B-PG21 2 032 307 04 121 PG29 H32B-SM-4B-PG29 2 032 307 04 129			
Housings, surface mounting		M25 H32B-SM-4B-CV-M25 2 032 307 05 125 M32 H32B-SM-4B-CV-M32 2 032 307 05 132 M40 H32B-SM-4B-CV-M40 2 032 307 05 140 PG16 H32B-SM-4B-CV-PG16 2 032 307 05 116 PG21 H32B-SM-4B-CV-PG21 2 032 307 05 121 PG29 H32B-SM-4B-CV-PG29 2 032 307 05 129			

H32B

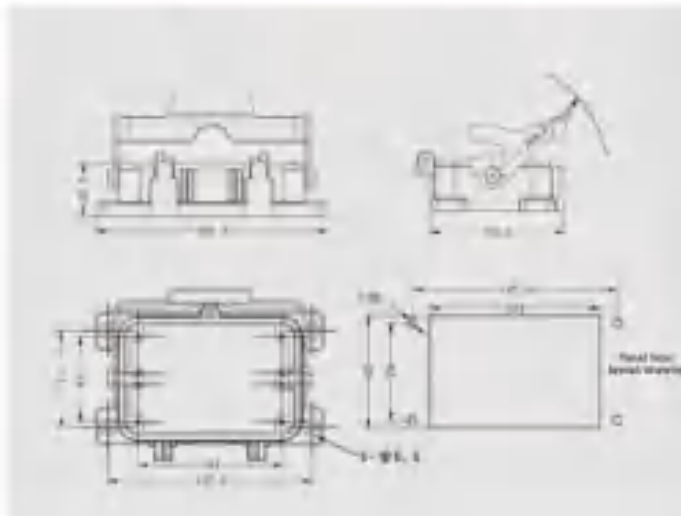
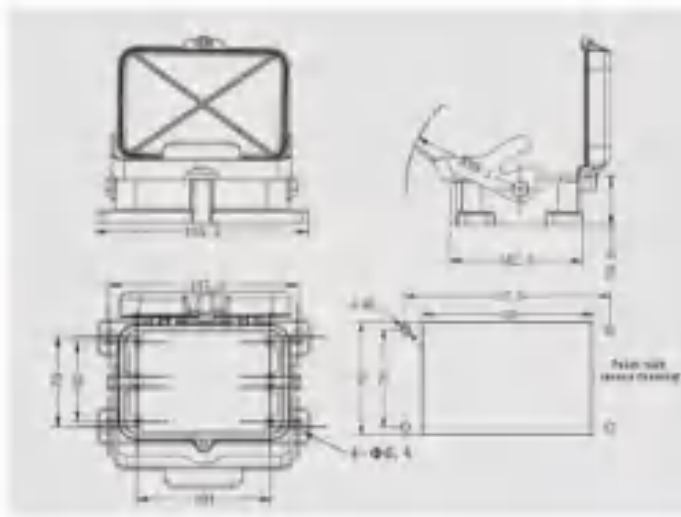
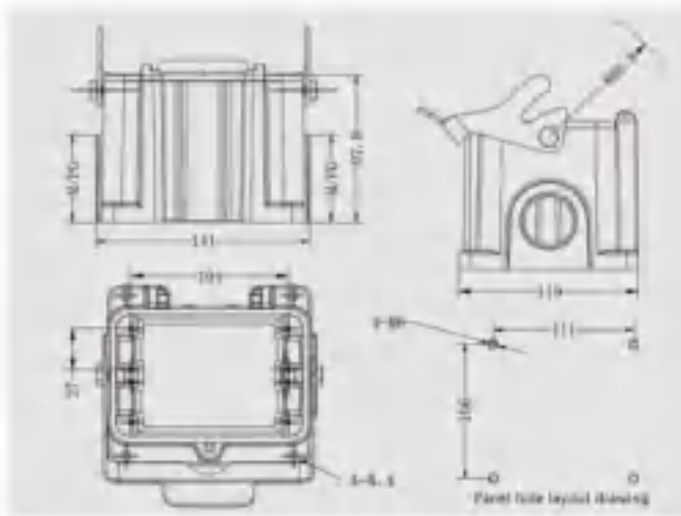
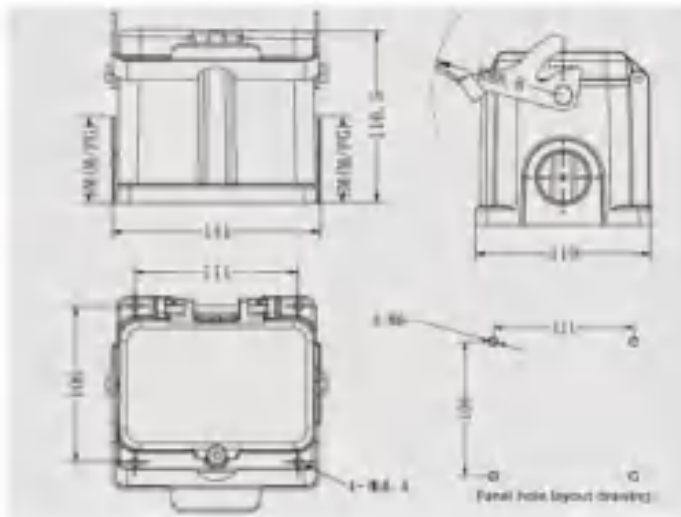
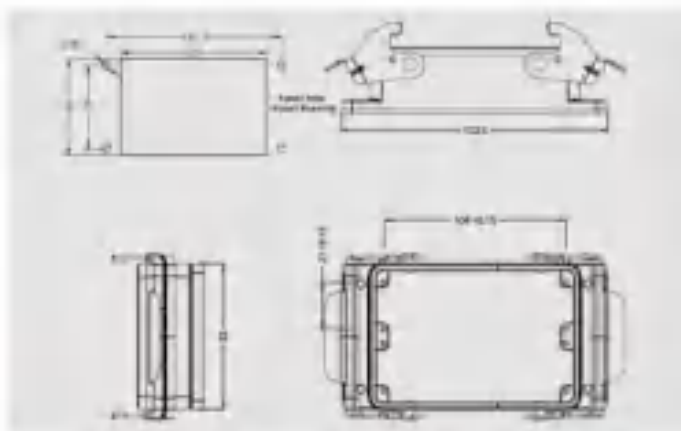
Degree of protection: IP65

Metal hoods

Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Hoods,Side Entry 	M25	H48B-SO-2B-M25	2 048 302 02 125		
	M32	H48B-SO-2B-M32	2 048 302 02 132		
	M40	H48B-SO-2B-M40	2 048 302 02 140		
	M50	H48B-SO-2B-M50	2 048 302 02 150		
	PG16	H48B-SO-2B-PG16	2 048 302 02 116		
	PG21	H48B-SO-2B-PG21	2 048 302 02 121		
	PG29	H48B-SO-2B-PG29	2 048 302 02 129		
	PG36	H48B-SO-2B-PG36	2 048 302 02 136		
Hoods,Top Entry 	M25	H48B-TO-2B-M25	2 048 301 02 125		
	M32	H48B-TO-2B-M32	2 048 301 02 132		
	M40	H48B-TO-2B-M40	2 048 301 02 140		
	M50	H48B-TO-2B-M50	2 048 301 02 150		
	PG16	H48B-TO-2B-PG16	2 048 301 02 116		
	PG21	H48B-TO-2B-PG21	2 048 301 02 121		
	PG29	H48B-TO-2B-PG29	2 048 301 02 129		
	PG36	H48B-TO-2B-PG36	2 048 301 02 136		
H48B Hoods,Top Entry 	M32	H48B-TO/P-4B-M32	2 048 323 04 132		
	M36	H48B-TO/P-4B-M36	2 048 323 04 137		
	M40	H48B-TO/P-4B-M40	2 048 323 04 140		
	PG16	H48B-TO/P-4B-PG16	2 048 323 04 116		
	PG29	H48B-TO/P-4B-PG29	2 048 323 04 129		
	PG36	H48B-TO/P-4B-PG36	2 048 323 04 136		
	2PG29	H48B-TO/P-4B-2PG29	2 048 323 04 229		
Hoods,Side Entry 	M25	H48B-SO/P-4B-M25	2 048 324 04 125		
	M40	H48B-SO/P-4B-M40	2 048 324 04 140		
	PG21	H48B-SO/P-4B-PG21	2 048 324 04 121		
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Degree of protection: IP65

Metal hoods

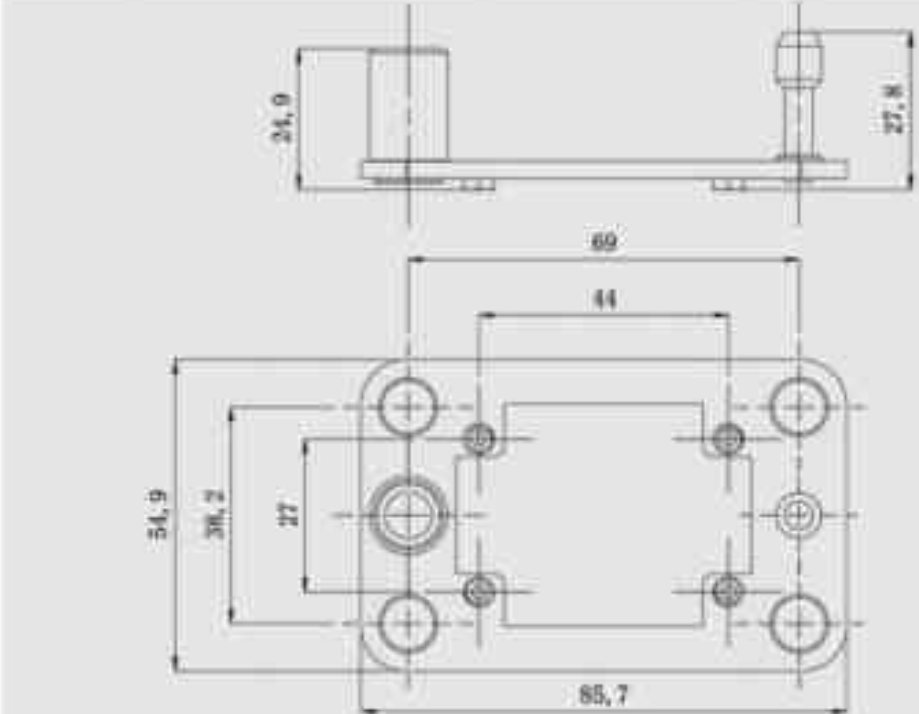
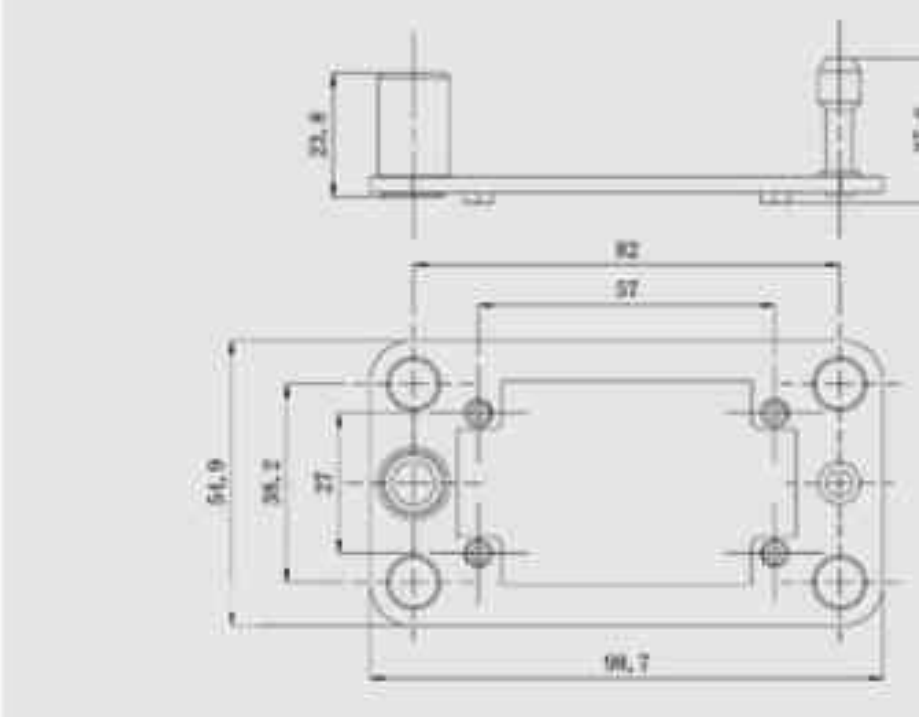
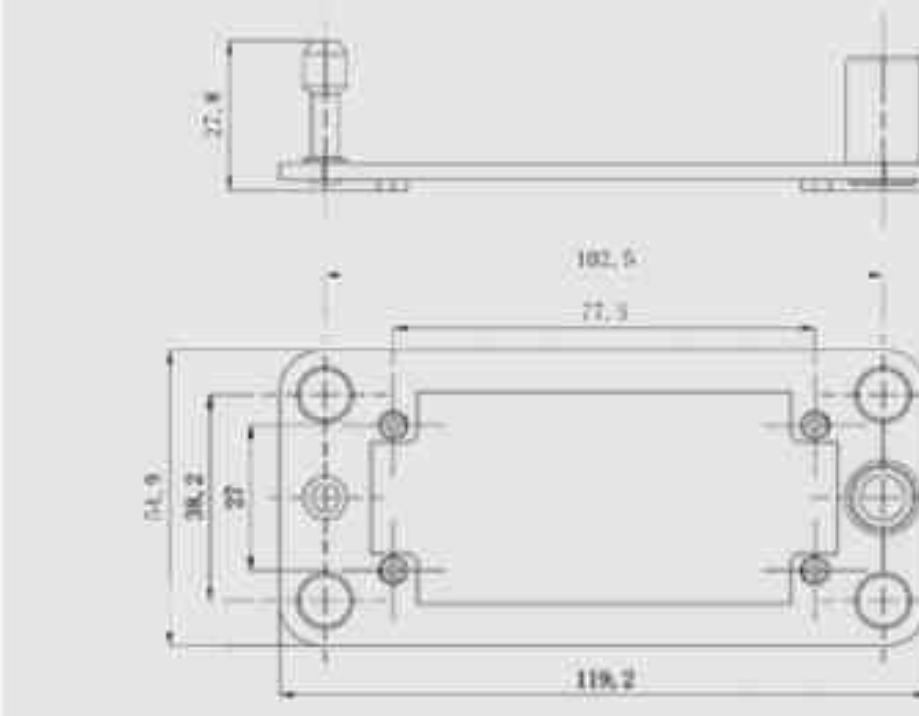
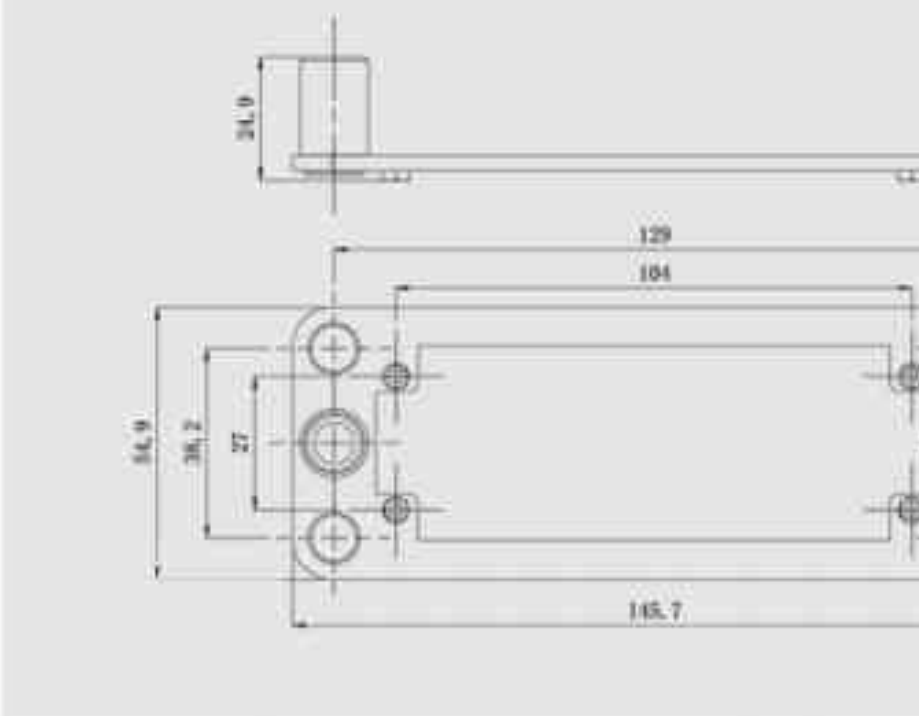
Identification	Thread	Type	Order No.	Drawing	Dimensions mm
Housings, bulkhead mounting		H48B-HB-1L	2 048 306 10 000		
Housings, bulkhead mounting		H48B-HB-1L-CV	2 048 306 14 000		
Housings, surface mounting		M25 H48B-SM-1L-M25 2 048 307 10 125 M32 H48B-SM-1L-M32 2 048 307 10 132 M40 H48B-SM-1L-M40 2 048 307 10 140 M50 H48B-SM-1L-M50 2 048 307 10 150 PG16 H48B-SM-1L-PG16 2 048 307 10 116 PG21 H48B-SM-1L-PG21 2 048 307 10 121 PG29 H48B-SM-1L-PG29 2 048 307 10 129 PG36 H48B-SM-1L-PG36 2 048 307 10 136			
Housings, surface mounting		M25 H48B-SM-1L-CV-M25 2 048 307 14 125 M32 H48B-SM-1L-CV-M32 2 048 307 14 132 M40 H48B-SM-1L-CV-M40 2 048 307 14 140 M50 H48B-SM-1L-CV-M50 2 048 307 14 150 PG16 H48B-SM-1L-CV-PG16 2 048 307 14 116 PG21 H48B-SM-1L-CV-PG21 2 048 307 14 121 PG29 H48B-SM-1L-CV-PG29 2 048 307 14 129 PG36 H48B-SM-1L-CV-PG36 2 048 307 14 136			
Housings, surface mounting		H48B-HB/P-2L	2 048 329 20 000		

H48B

Technical Characteristics

Materials		Products include
- Docking frame	Stainless steel	One shelf
- Docking frame	Iron, Galvanization	Four flat-head bolts, used for fixing the connecting frame
Insert tolerance		
-x axis	±1.5mm	
-y axis	±1.5mm	
Number of insertions and withdrawals	≥500	

Frame construction version

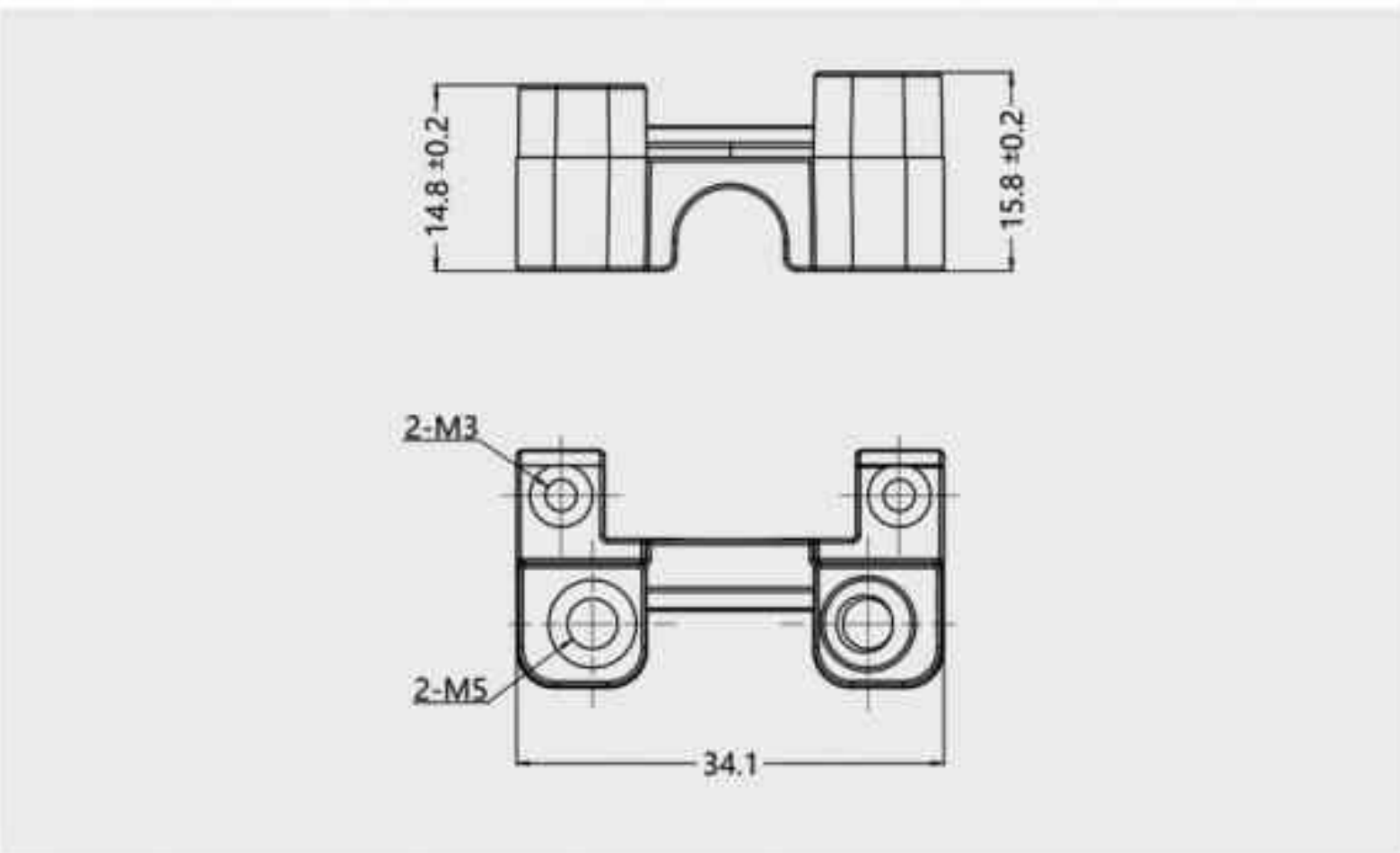
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	 H6B-HD	2 006 018 00 000		
	 H10B-HD	2 010 018 00 000		
	 H16B-HD	2 016 018 00 000		
	 H24B-HD	2 024 018 00 000		

Docking frame

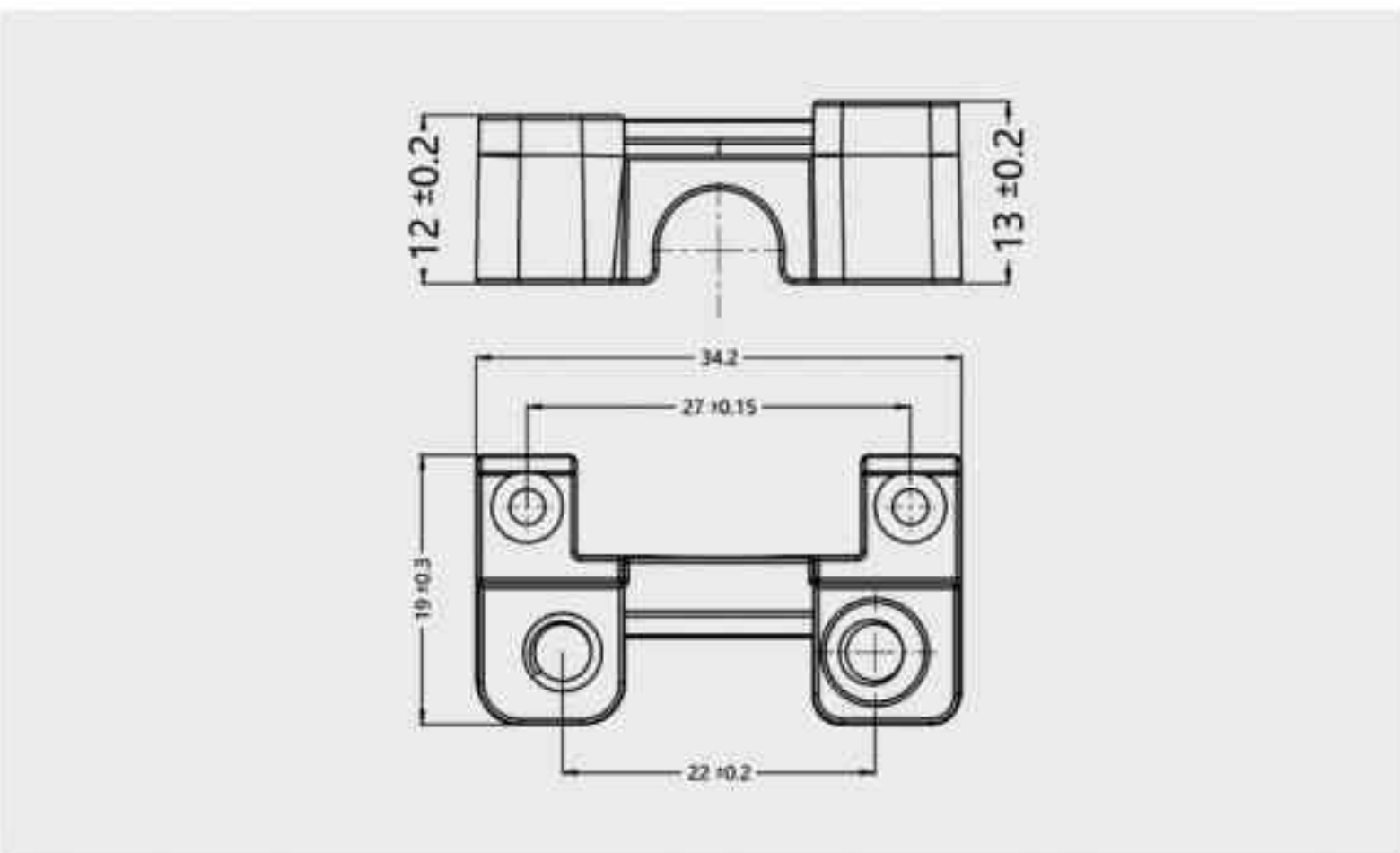
Fixed block



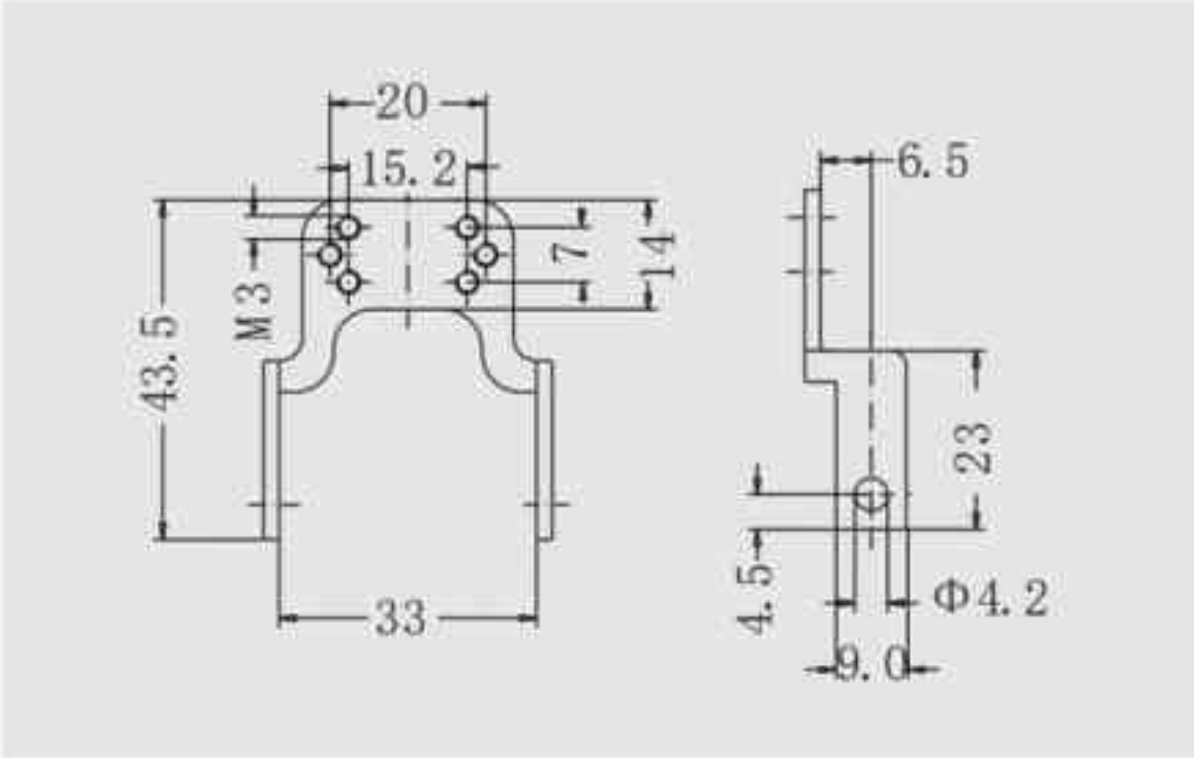
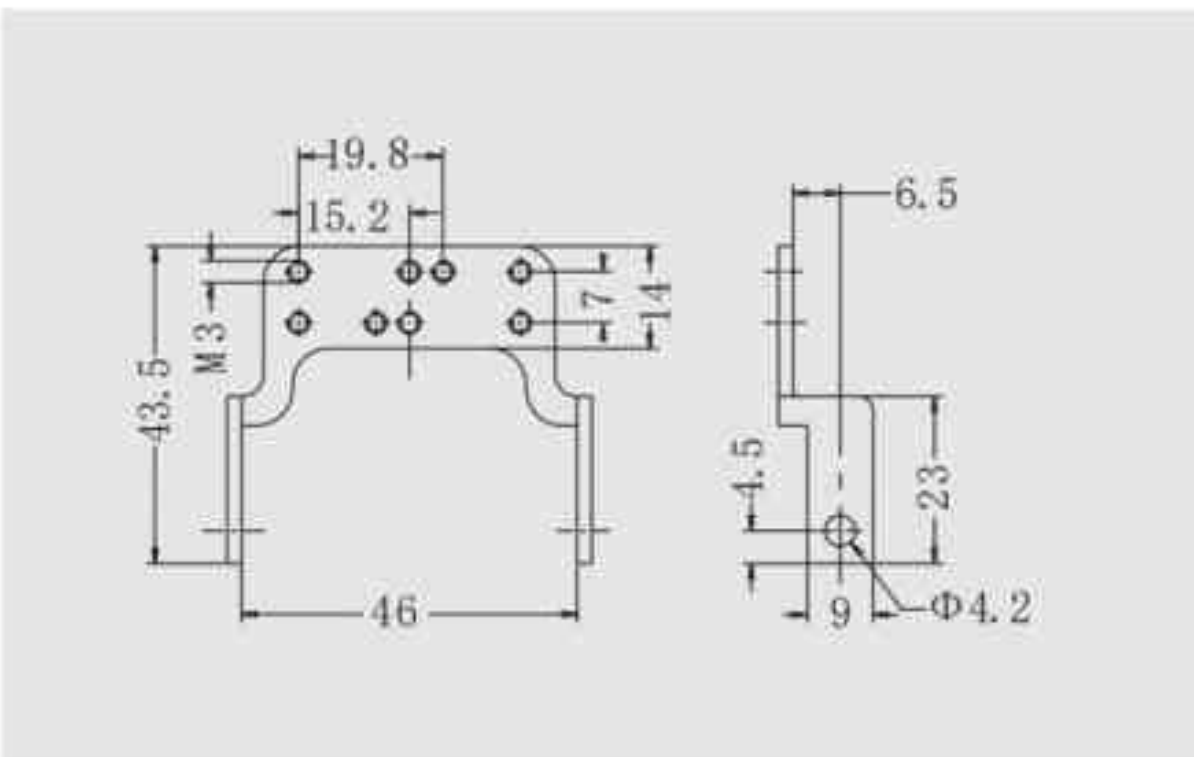
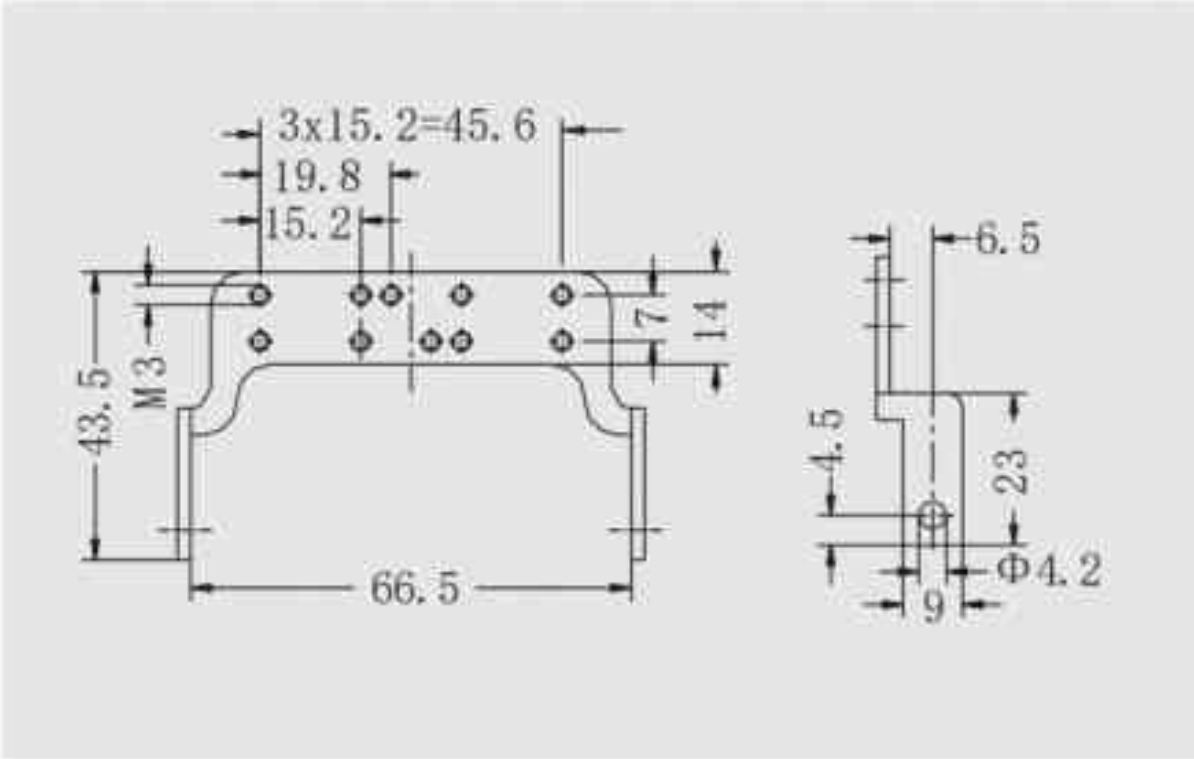
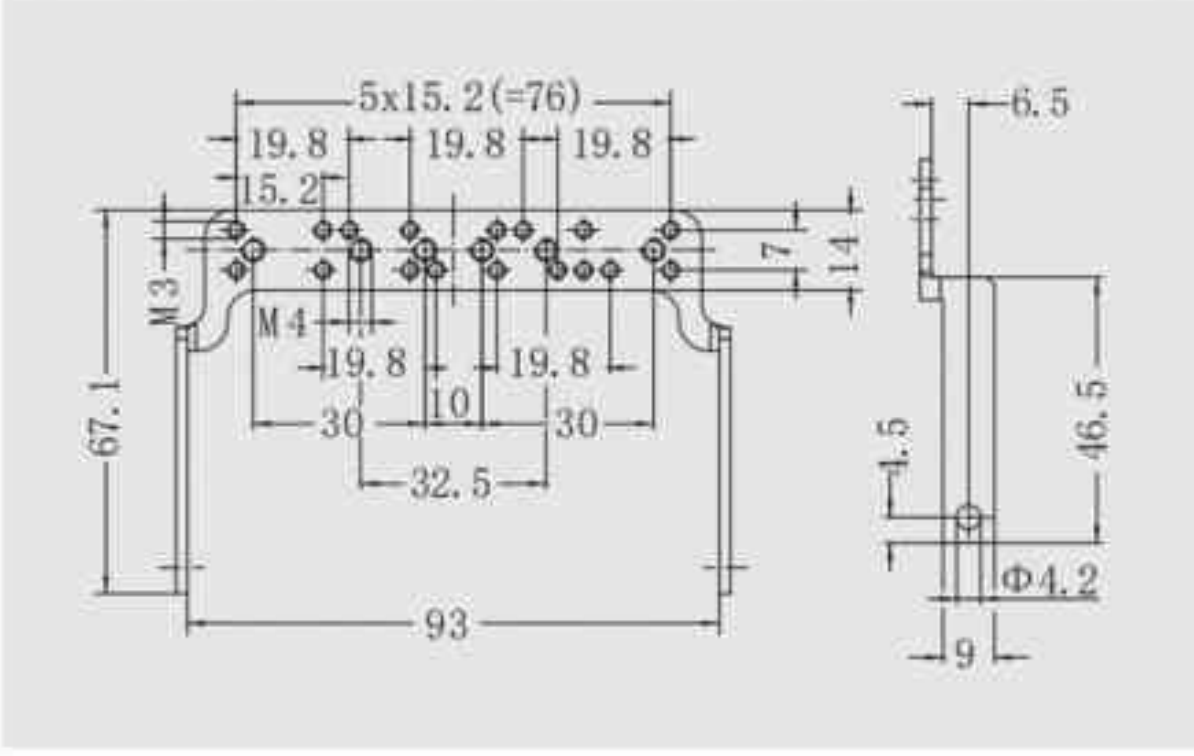
Description	Type	Order No.
Fixed block (High)	T-C1	3 09 160831010



Description	Type	Order No.
Fixed block (Low)	T-C2	3 09 160831013

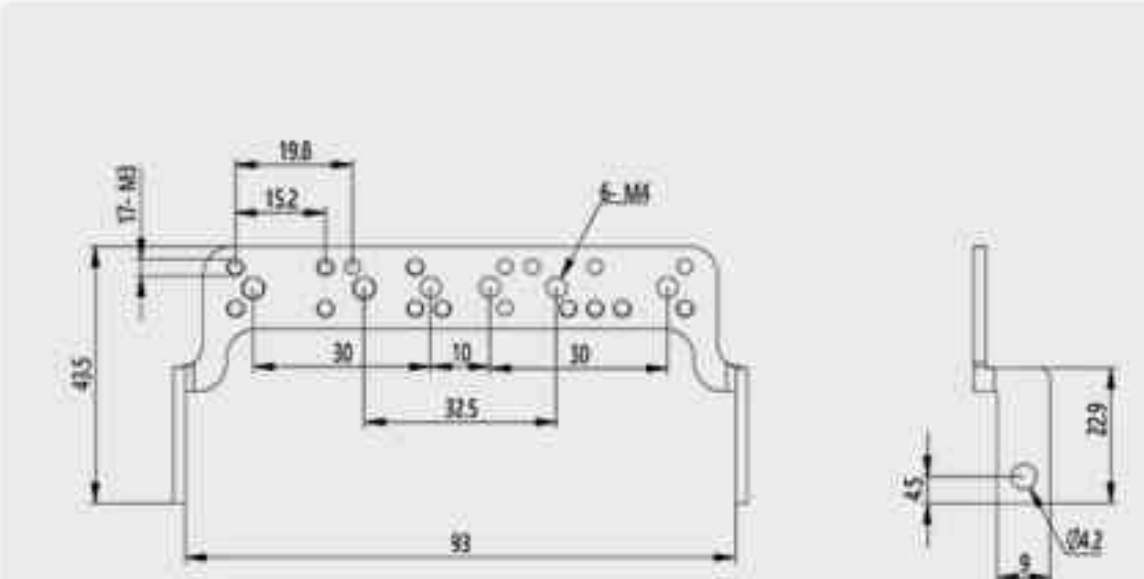
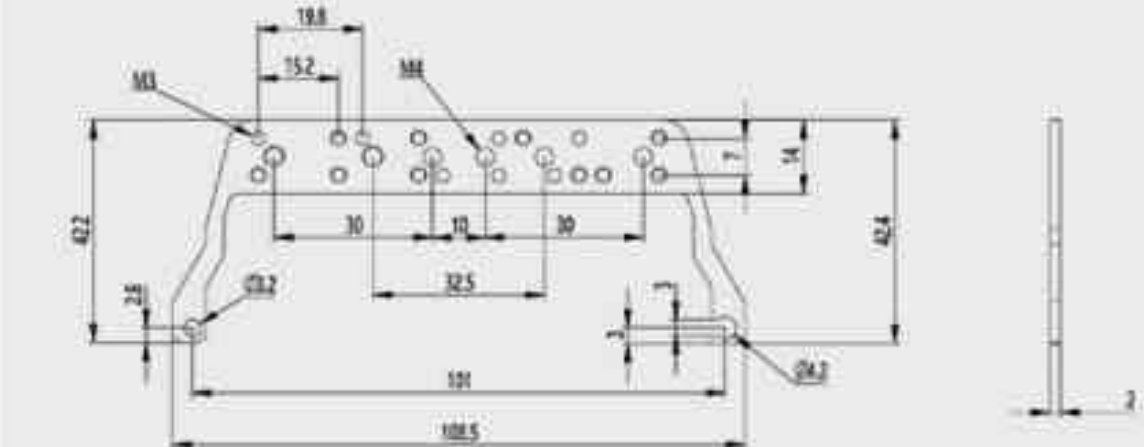
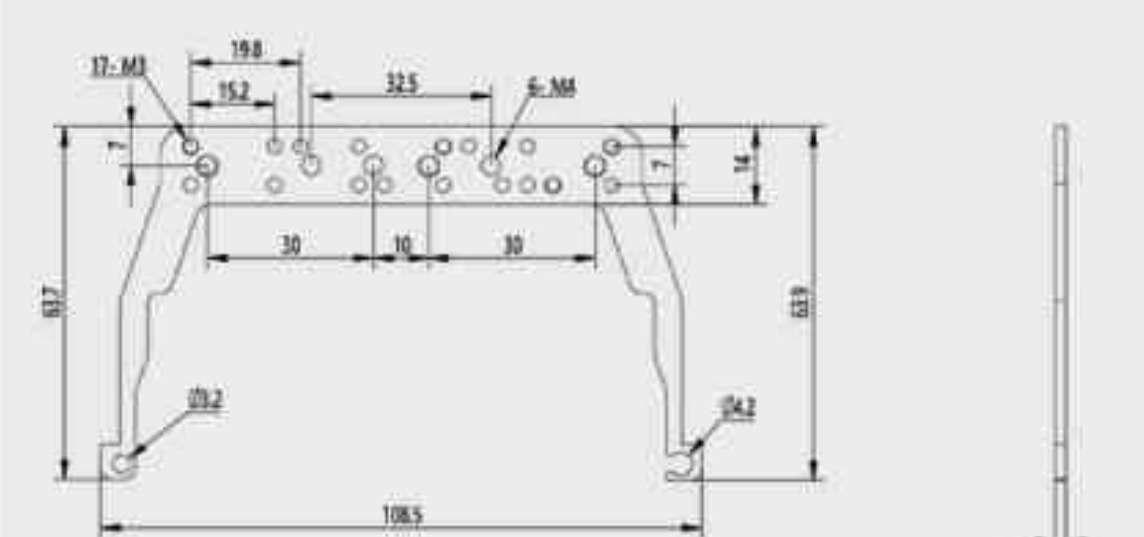
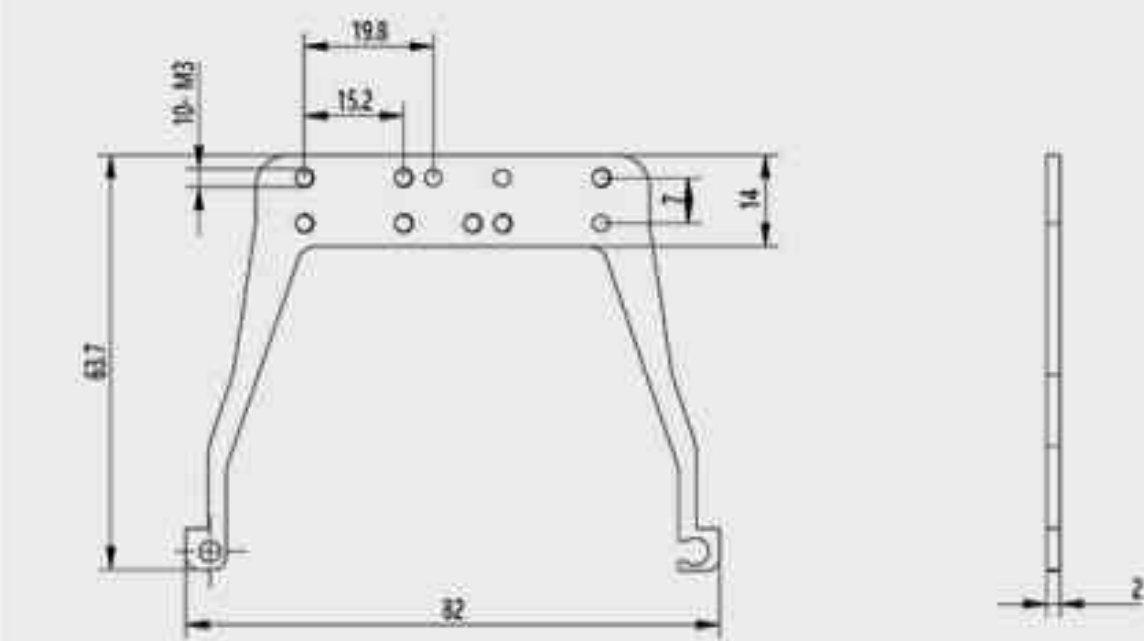


Frame construction version

Identification	Type	Order No.	Drawing	Dimensions mm
 	H6B-PE	3 09 900000112		
 	H10B-PE	3 09 900000113		
 	H16B-PE	3 09 900000114		
 	H24B-PE	3 09 900000115		

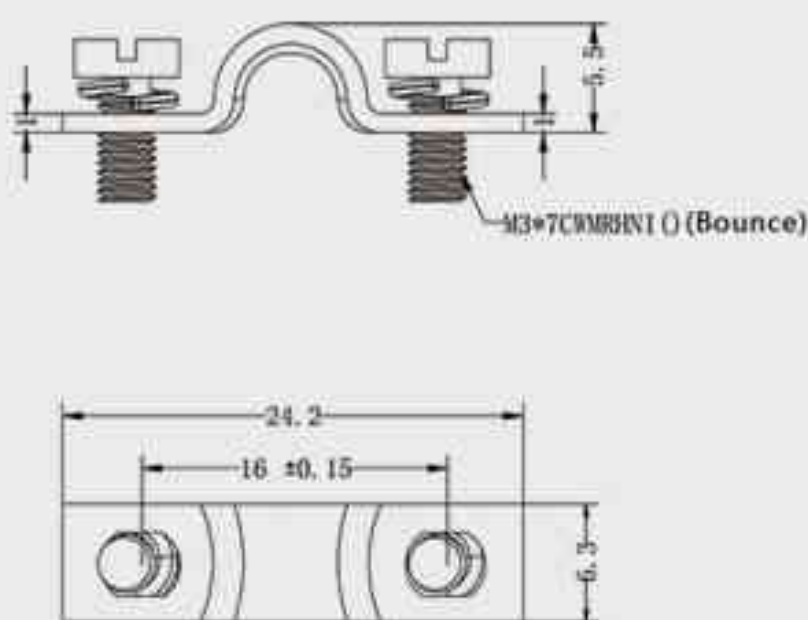
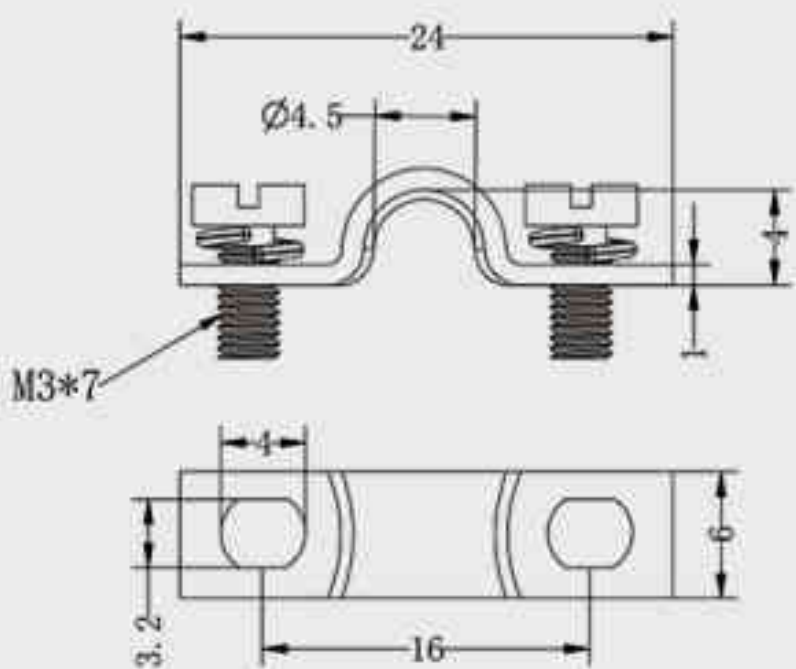
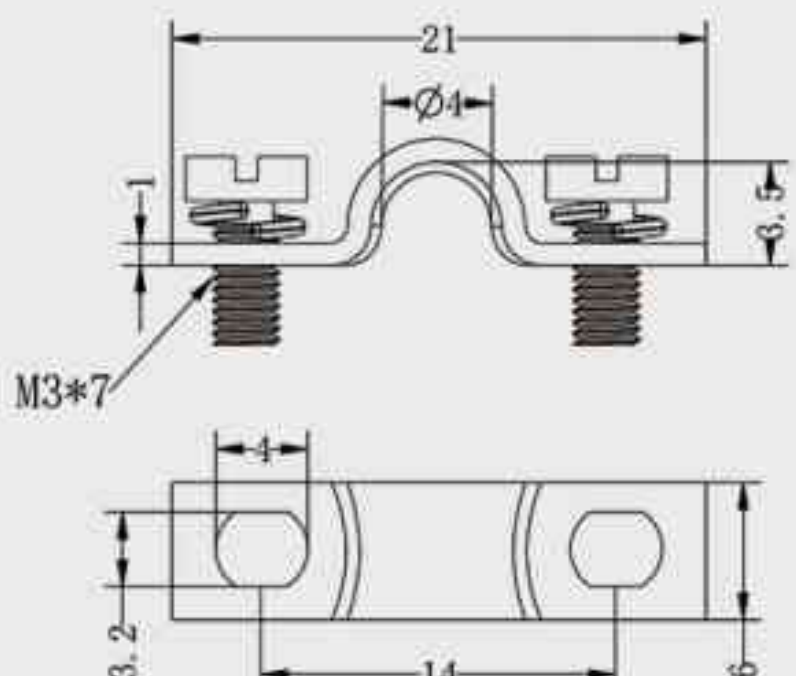
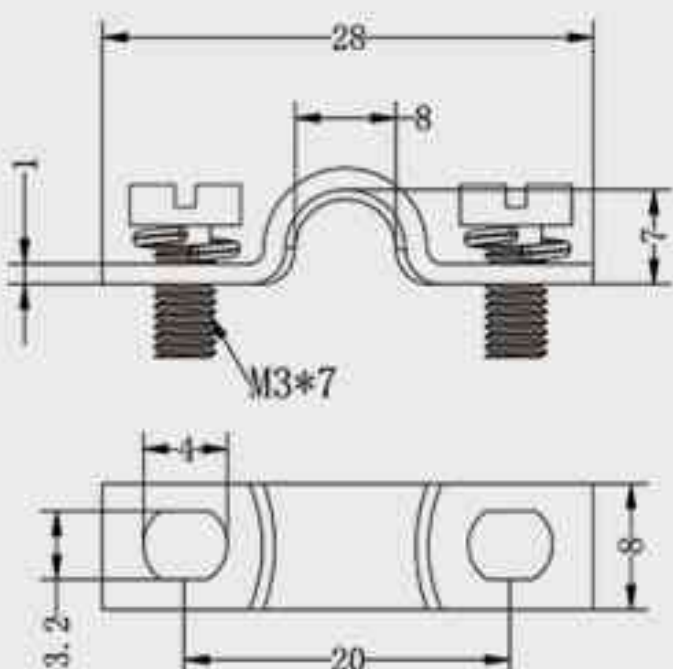
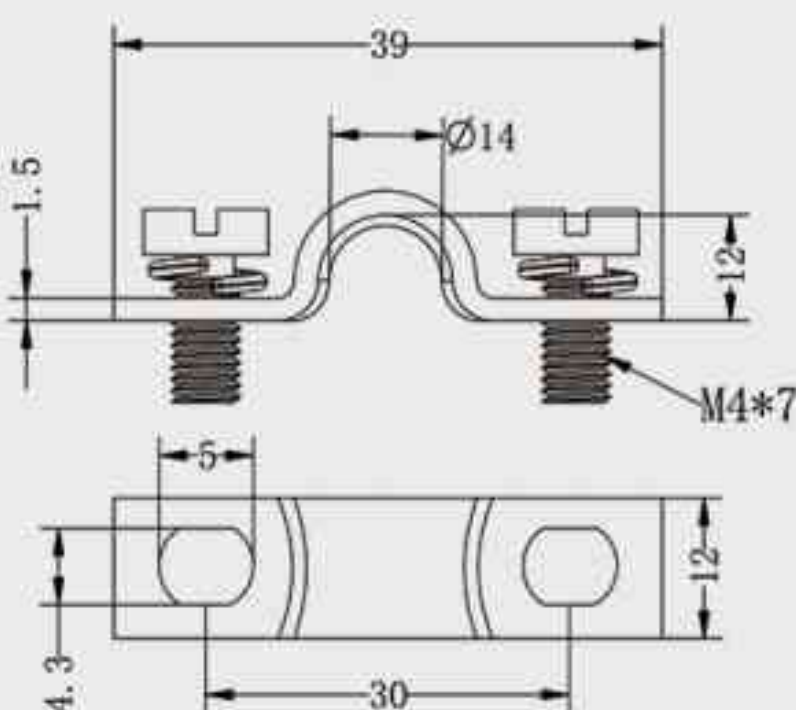
Attachment

Frame construction version

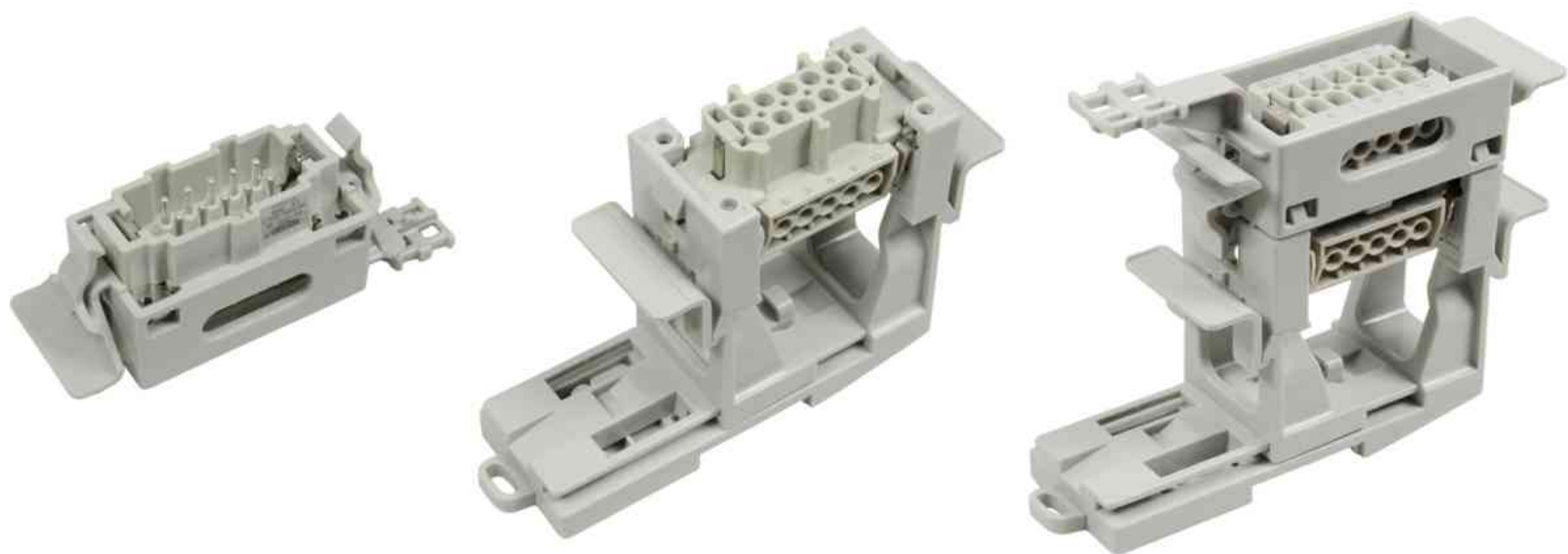
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	H24B-DPE	1 900 00 133		
	H24B-DMPE	1 900 00 135		
	H24B-MPE	1 900 00 131		
	H16B-MPE	1 900 00 130		

Attachment

Frame construction version

Identification	Type	Order No.	Drawing	Dimensions mm
 NEW	CLP4.5-PE	9 000 00 116		
 NEW	CLP4.5-4-PE	9 000 00 119		
 NEW	CLP4-3.5-PE	9 000 00 120		
 NEW	CLP8-7-PE	9 000 00 121		
 NEW	CLP14-12-PE	9 000 00 122		

Attachment

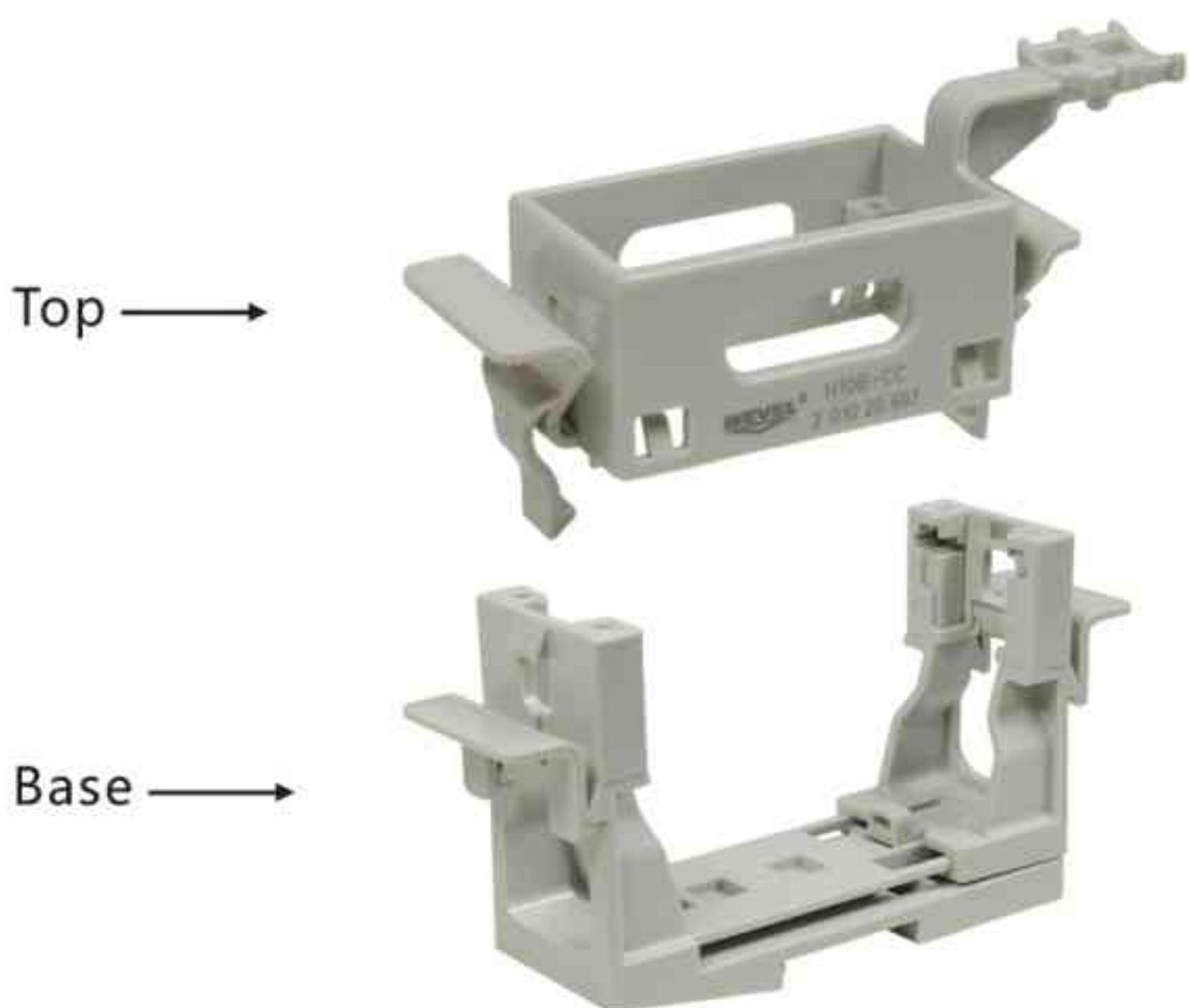


Set

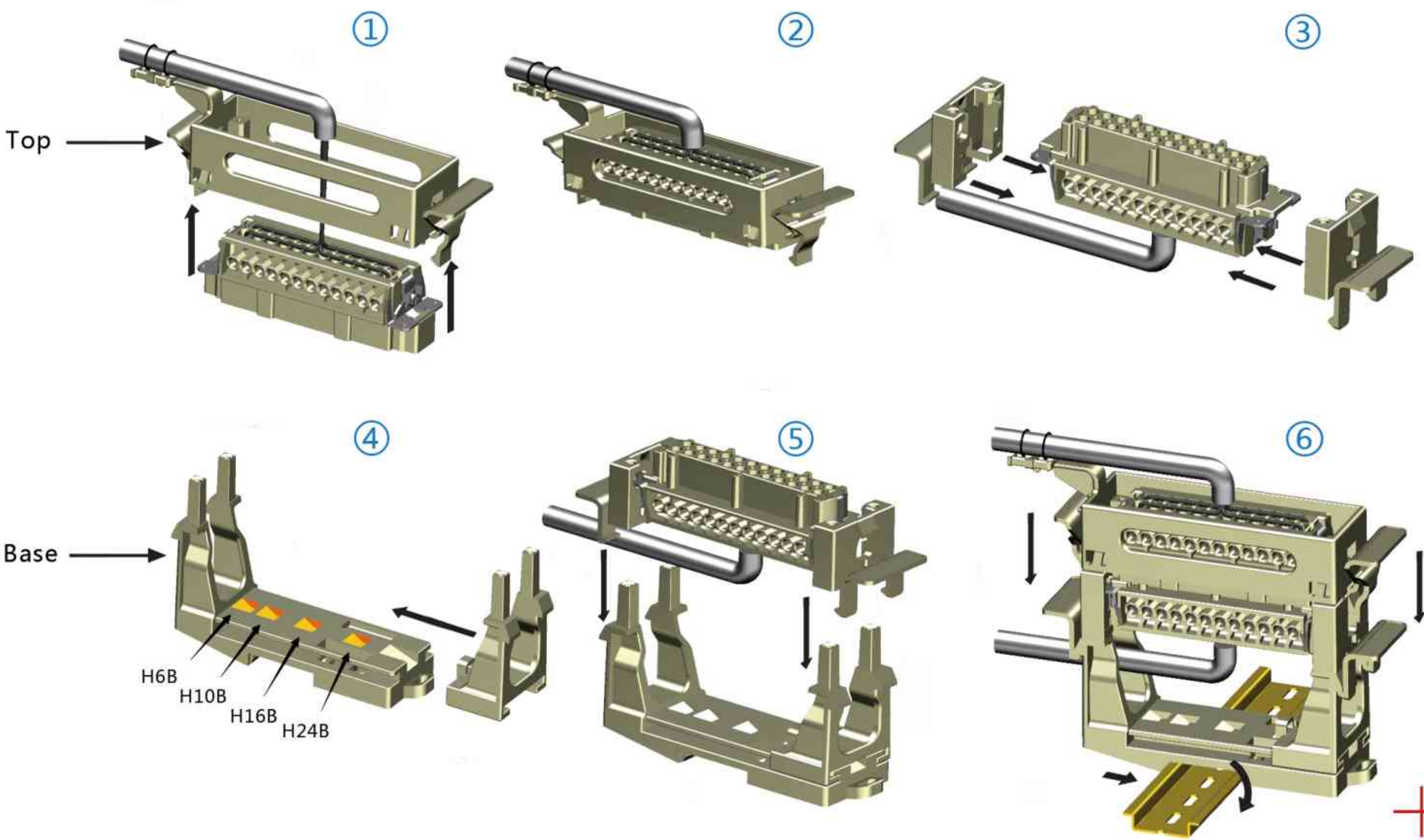
Insert mounting with carrier element

Set include:Top and base frame

Kit ordering (including the top part and the base)/Set order	Type	Order NO.
H6B Installation Guide Rail Kit/H6B	H6B-CC	2 006 322 80 000
H10B Installation Guide Rail Kit/H10B	H10B-CC	2 010 322 80 000
H16B Installation Guide Rail Kit/H16B	H16B-CC	2 016 322 80 000
H24B Installation Guide Rail Kit/H24B	H24B-CC	2 024 322 80 000



Attachment



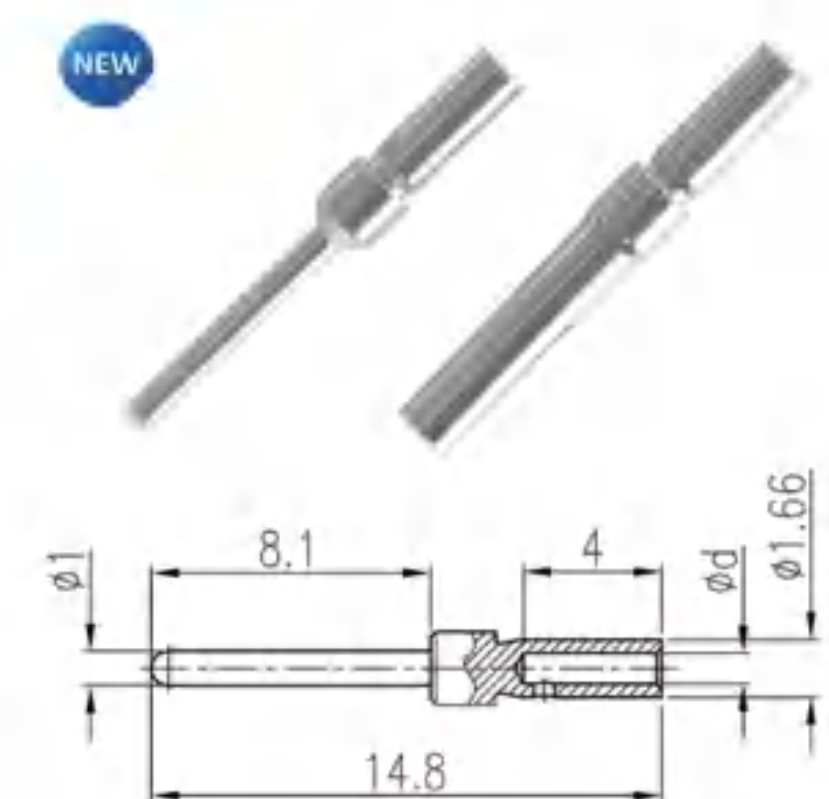
5A Crimp contacts

Technical data

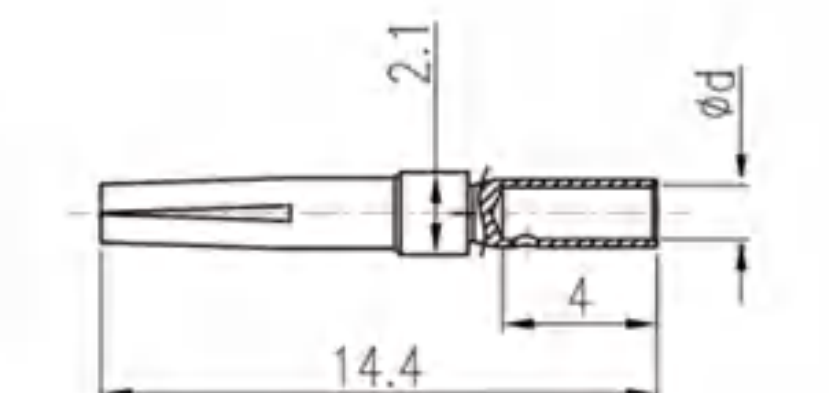
Material: Copper Wiring method: crimp connection Contacts resistance: $\leq 3\text{m}\Omega$

Wire gauge	Stripping length		Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
0.09-0.25mm ²	AWG28-24	5mm	SSM-0.25	4 005 110 10 025	SGM-0.25	4 005 210 10 025
0.25-0.33mm ²	AWG26-20	5mm	SSM-0.33	4 005 110 10 033	SGM-0.33	4 005 210 10 033
0.33-0.52mm ²	AWG22-20	5mm	SSM-0.52	4 005 110 10 052	SGM-0.52	4 005 210 10 052
0.52-0.82mm ²	AWG22-18	5mm	SSM-0.82	4 005 110 10 082	SGM-0.82	4 005 210 10 082

Wire gauge	Stripping length		Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
0.09-0.25mm ²	AWG28-24	5mm	SSF-0.25	4 005 110 20 025	SGF-0.25	4 005 210 20 025
0.25-0.33mm ²	AWG26-20	5mm	SSF-0.33	4 005 110 20 033	SGF-0.33	4 005 210 20 033
0.33-0.52mm ²	AWG22-20	5mm	SSF-0.52	4 005 110 20 052	SGF-0.52	4 005 210 20 052
0.52-0.82mm ²	AWG22-18	5mm	SSF-0.82	4 005 110 20 082	SGF-0.82	4 005 210 20 082



Mate crimp contacts



Female crimp contacts

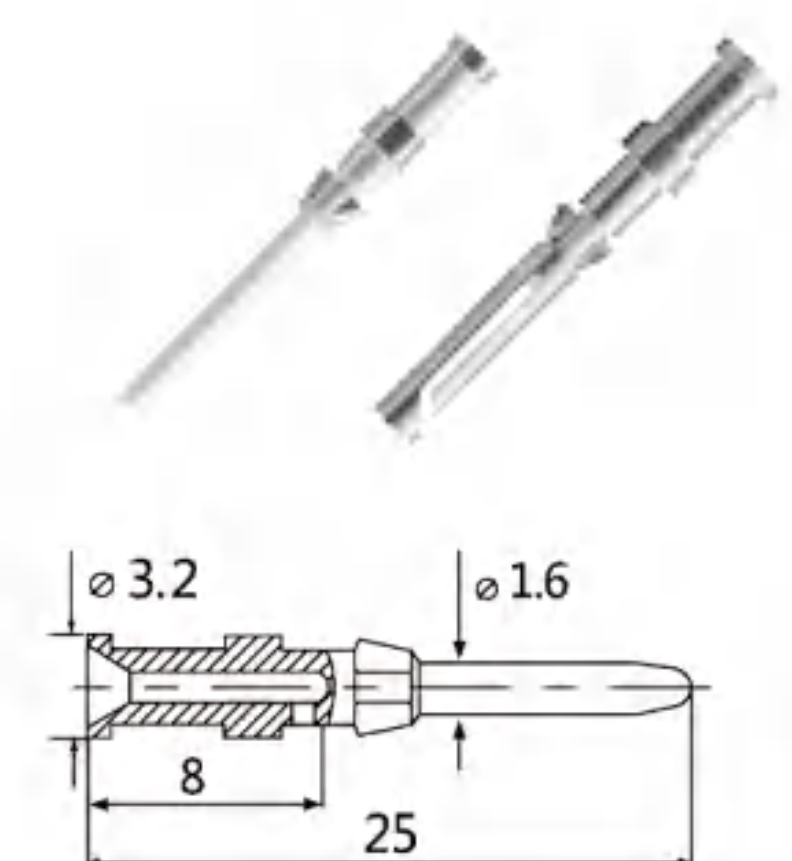
10A Crimp contacts

Technical data

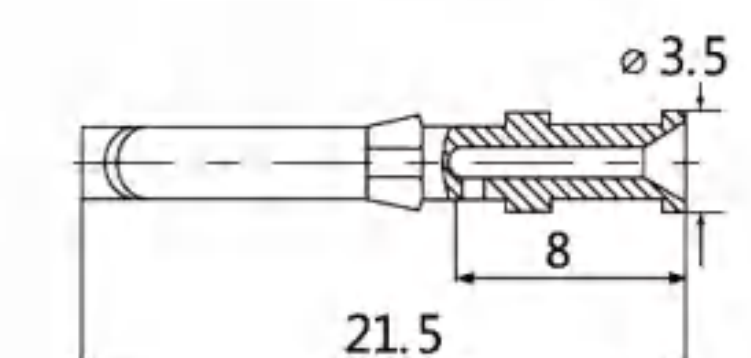
Material: Copper Wiring method: crimp connection Contacts resistance: $\leq 3\text{m}\Omega$

Wire gauge	Stripping length		Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
0.37mm ²	AWG 20	8.0mm	DSM-0.37	4 010 110 10 037	DGM-0.37	4 010 210 10 037
0.5mm ²	AWG 20	8.0mm	DSM-0.5	4 010 110 10 050	DGM-0.5	4 010 210 10 050
0.75mm ²	AWG 18	8.0mm	DSM-0.75	4 010 110 10 075	DGM-0.75	4 010 210 10 075
1.0mm ²	AWG 18	8.0mm	DSM-1.0	4 010 110 10 100	DGM-1.0	4 010 210 10 100
1.5mm ²	AWG 16	8.0mm	DSM-1.5	4 010 110 10 150	DGM-1.5	4 010 210 10 150
2.5mm ²	AWG 14	8.0mm	DSM-2.5	4 010 110 10 250	DGM-2.5	4 010 210 10 250

Wire gauge	Stripping length		Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
0.37mm ²	AWG 20	8.0mm	DSF-0.37	4 010 110 20 037	DGF-0.37	4 010 210 20 037
0.5mm ²	AWG 20	8.0mm	DSF-0.5	4 010 110 20 050	DGF-0.5	4 010 210 20 050
0.75mm ²	AWG 18	8.0mm	DSF-0.75	4 010 110 20 075	DGF-0.75	4 010 210 20 075
1.0mm ²	AWG 18	8.0mm	DSF-1.0	4 010 110 20 100	DGF-1.0	4 010 210 20 100
1.5mm ²	AWG 16	8.0mm	DSF-1.5	4 010 110 20 150	DGF-1.5	4 010 210 20 150
2.5mm ²	AWG 14	8.0mm	DSF-2.5	4 010 110 20 250	DGF-2.5	4 010 210 20 250



Mate crimp contacts



Female crimp contacts

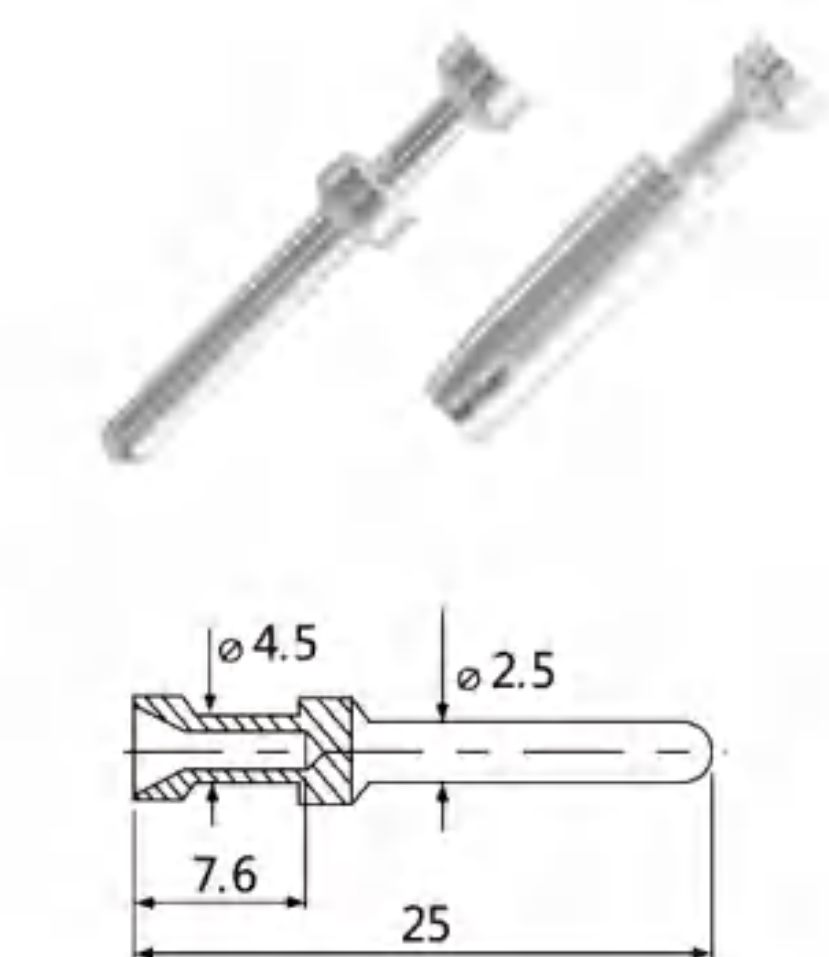
16A Crimp contacts

Technical data

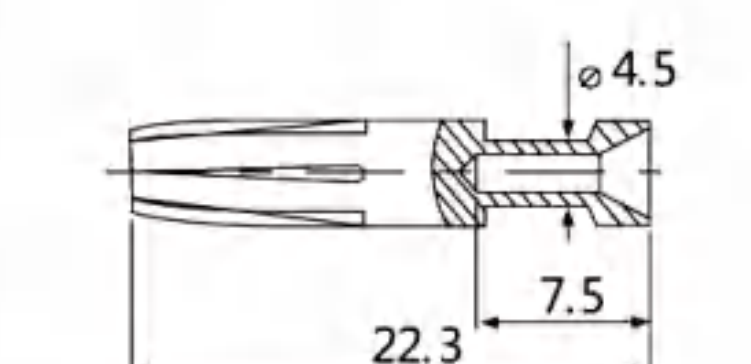
Material: Copper Wiring method: crimp connection Contacts resistance: $\leq 1\text{m}\Omega$

Wire gauge	Stripping length		Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
0.5mm ²	AWG 20	7.5mm	ESM-0.5	4 016 110 10 050	EGM-0.5	4 016 210 10 050
0.75mm ²	AWG 18	7.5mm	ESM-0.75	4 016 110 10 075	EGM-0.75	4 016 210 10 075
1.0mm ²	AWG 18	7.5mm	ESM-1.0	4 016 110 10 100	EGM-1.0	4 016 210 10 100
1.5mm ²	AWG 16	7.5mm	ESM-1.5	4 016 110 10 150	EGM-1.5	4 016 210 10 150
2.5mm ²	AWG 14	7.5mm	ESM-2.5	4 016 110 10 250	EGM-2.5	4 016 210 10 250
4.0mm ²	AWG 12	7.5mm	ESM-4.0	4 016 110 10 400	EGM-4.0	4 016 210 10 400
0.37mm ²	AWG 22	7.5mm	ESM-0.37	4 016 110 10 037	EGM-0.37	4 016 210 10 037

Wire gauge	Stripping length		Contacts, Silver-plated	Order No.	Contacts, Gold-plated	Order No.
0.5mm ²	AWG 20	7.5mm	ESF-0.5	4 016 110 20 050	EGF-0.5	4 016 210 20 050
0.75mm ²	AWG 18	7.5mm	ESF-0.75	4 016 110 20 075	EGF-0.75	4 016 210 20 075
1.0mm ²	AWG 18	7.5mm	ESF-1.0	4 016 110 20 100	EGF-1.0	4 016 210 20 100
1.5mm ²	AWG 16	7.5mm	ESF-1.5	4 016 110 20 150	EGF-1.5	4 016 210 20 150
2.5mm ²	AWG 14	7.5mm	ESF-2.5	4 016 110 20 250	EGF-2.5	4 016 210 20 250
4.0mm ²	AWG 12	7.5mm	ESF-4.0	4 016 110 20 400	EGF-4.0	4 016 210 20 400
0.37mm ²	AWG 22	7.5mm	ESF-0.37	4 016 110 20 037	EGF-0.37	4 016 210 20 037



Mate crimp contacts



Female crimp contacts

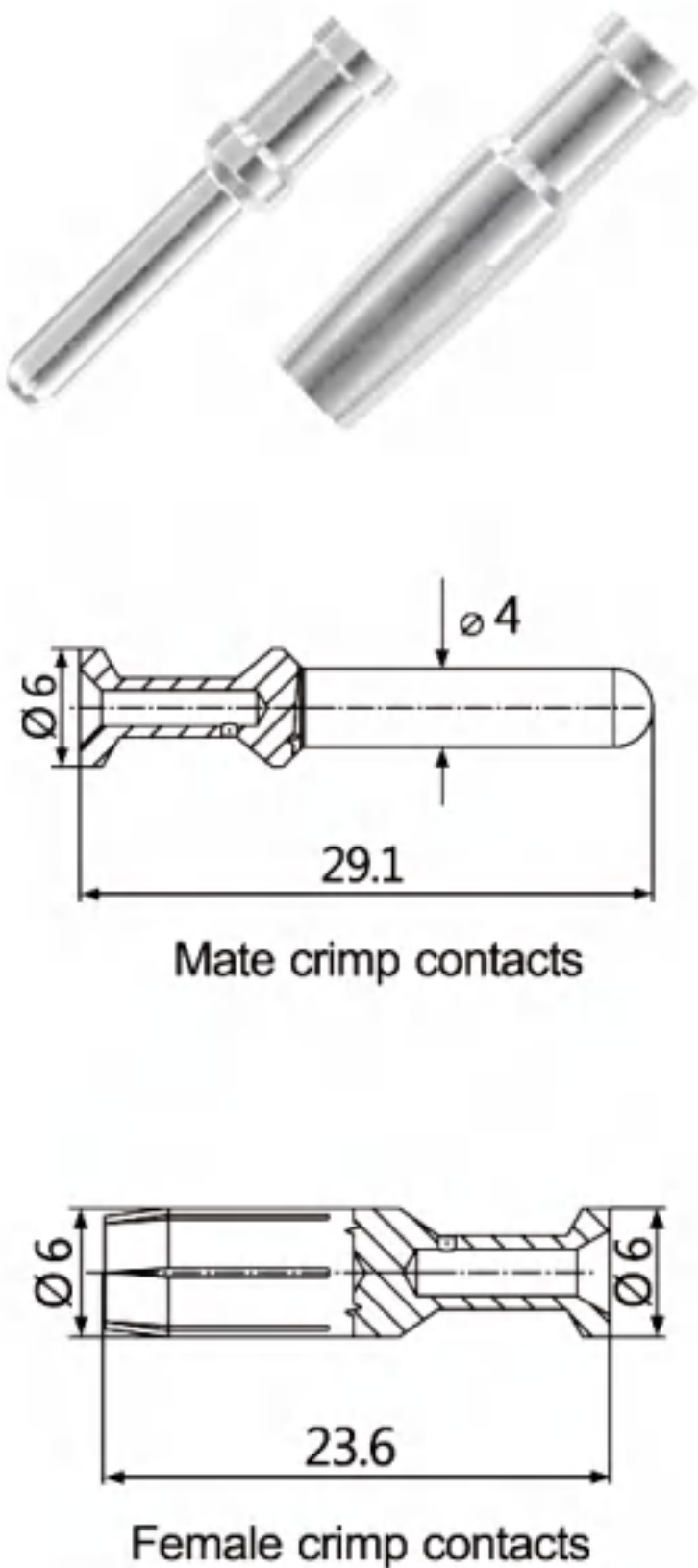
40A Crimp contacts

Technical data

Material: Copper Wiring method: crimp connection Contacts resistance: $\leq 0.3\text{m}\Omega$

Wire gauge	Stripping length		Contacts ,Silver-plated	Order No
1.5mm ²	AWG 16	9.0mm	CMM-1.5	4 040 110 10 150
2.5mm ²	AWG 14	9.0mm	CMM-2.5	4 040 110 10 250
4.0mm ²	AWG 12	9.6mm	CMM-4.0	4 040 110 10 400
6.0mm ²	AWG 10	9.6mm	CMM-6.0	4 040 110 10 600
10.0mm ²	AWG 8	15mm	CMM-10.0	4 040 110 10 110

Wire gauge	Stripping length		Contacts ,Silver-plated	Order No
1.5mm ²	AWG 16	9.0mm	CMF-1.5	4 040 110 20 150
2.5mm ²	AWG 14	9.0mm	CMF-2.5	4 040 110 20 250
4.0mm ²	AWG 12	9.6mm	CMF-4.0	4 040 110 20 400
6.0mm ²	AWG 10	9.6mm	CMF-6.0	4 040 110 20 600
10.0mm ²	AWG 8	15mm	CMF-10.0	4 040 110 20 110



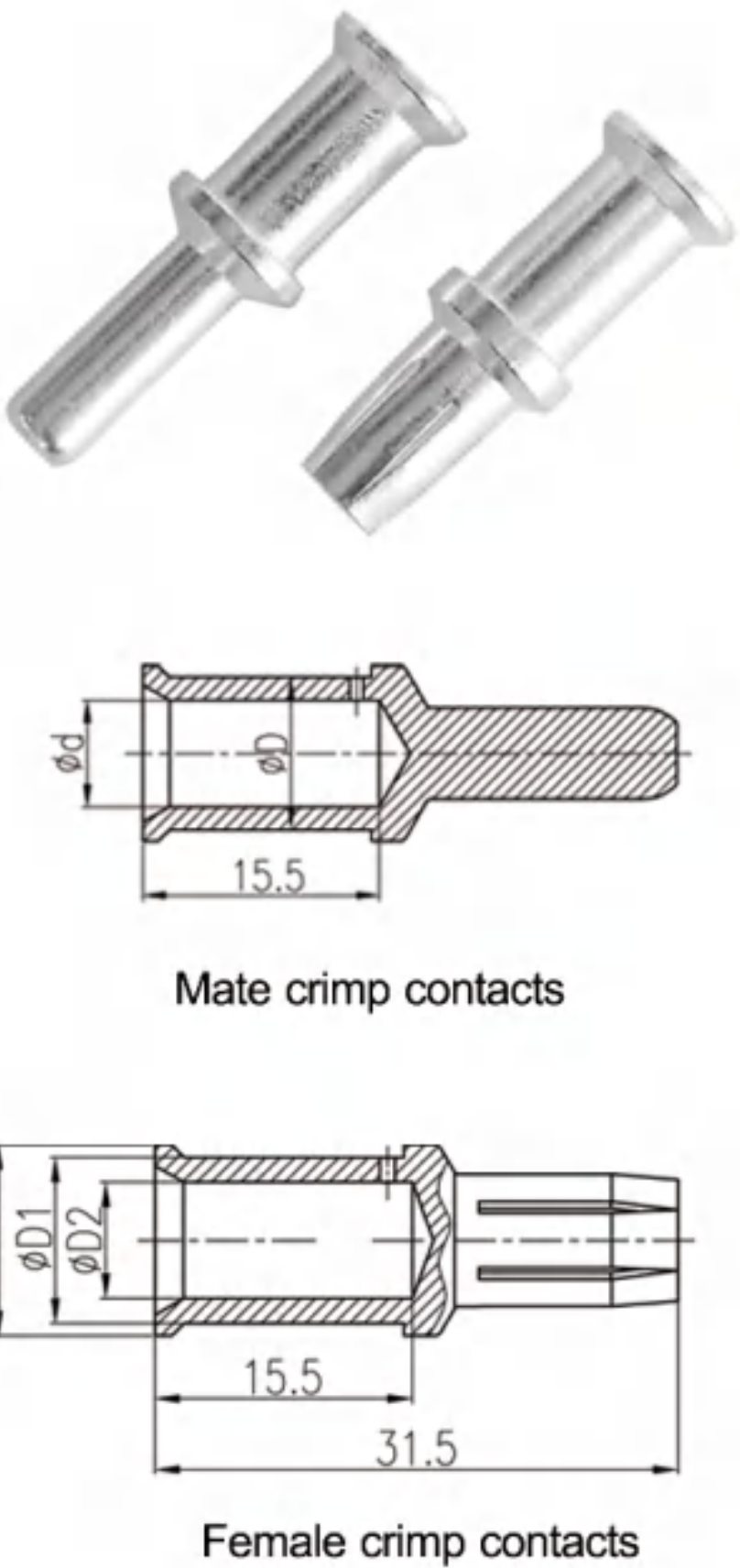
70A Crimp contacts

Technical data

Material: Copper Wiring method: crimp connection Contacts resistance: $\leq 3\text{m}\Omega$

Wire gauge	Stripping length	Contacts ,Silver-plated	Order No	d	D
6mm ²	15.5mm	CSM70-6	4 070 110 10 106	3.5	5
10mm ²	15.5mm	CSM70-10	4 070 110 10 110	4.3	5.6
16mm ²	15.5mm	CSM70-16	4 070 110 10 116	5.5	8.5
25mm ²	15.5mm	CSM70-25	4 070 110 10 125	7	10

Wire gauge	Stripping length	Contacts ,Silver-plated	Order No	D1	D2
6mm ²	15.5mm	CSF70-6	4 070 110 20 106	5	3.5
10mm ²	15.5mm	CSF70-10	4 070 110 20 110	5.6	4.3
16mm ²	15.5mm	CSF70-16	4 070 110 20 116	8.5	5.5
25mm ²	15.5mm	CSF70-25	4 070 110 20 125	10	7



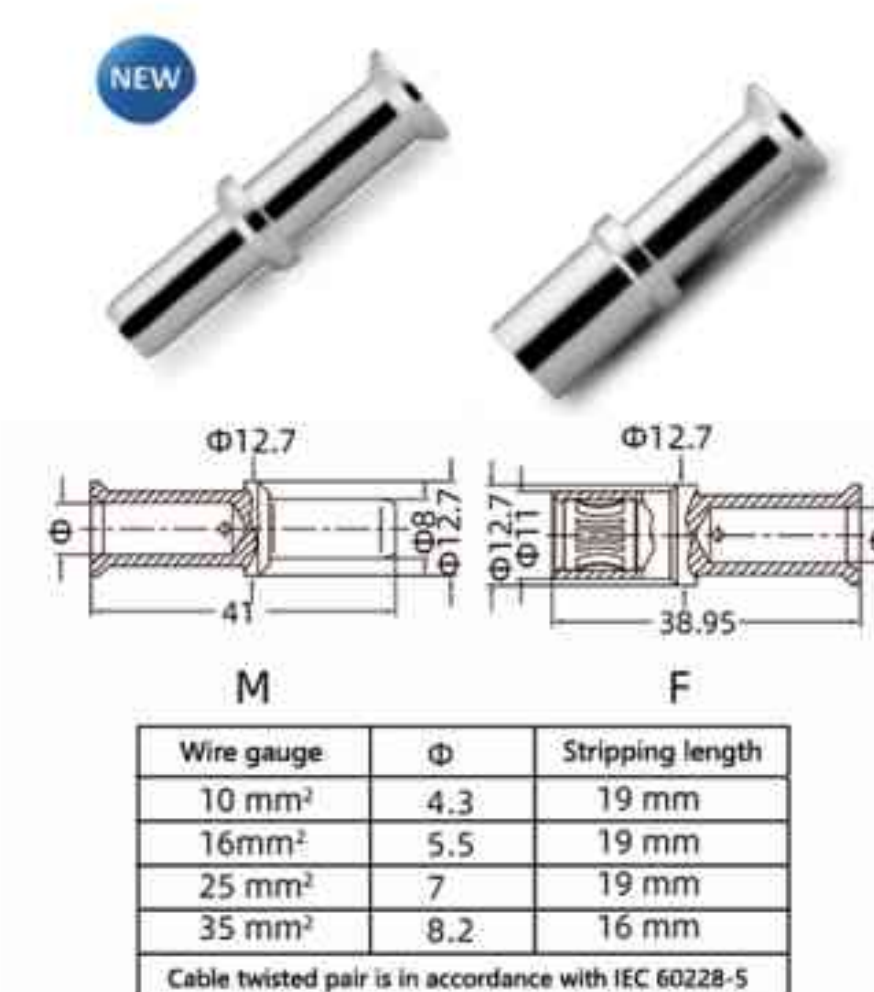
Attachment

100A Crimp contacts

Technical data

Material: Copper Wiring method: crimp connection Contacts resistance: $\leq 0.3\text{m}\Omega$

Wire gauge	Stripping length	Cold pressed needle	Order No.	Cold pressed needle	Order No.
6mm ²	19mm	CSM100-6	4 100 110 10 060	CSF100-6	4 100 110 20 060
10mm ²	19mm	CSM100-10	4 100 110 10 100	CSF100-10	4 100 110 20 100
16mm ²	19mm	CSM100-16	4 100 110 10 160	CSF100-16	4 100 110 20 160
25mm ²	19mm	CSM100-25	4 100 110 10 250	CSF100-25	4 100 110 20 250
35mm ²	16mm	CSM100-35	4 100 110 10 350	CSF100-35	4 100 110 20 350

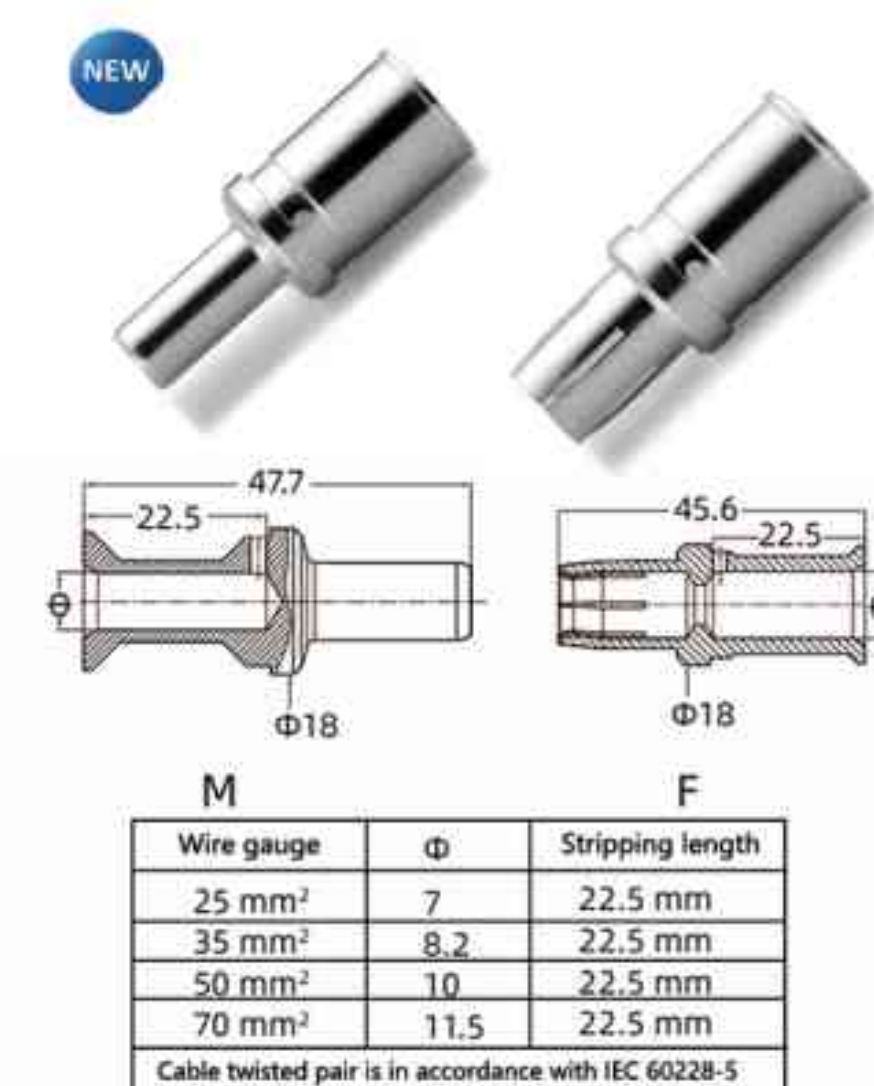


200A Crimp contacts

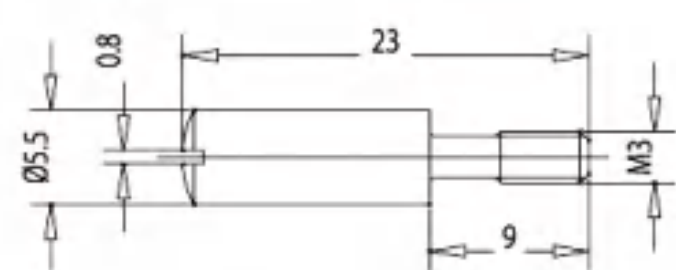
Technical data

Material: Copper Wiring method: crimp connection Contacts resistance: $\leq 0.3\text{m}\Omega$

Wire gauge	Stripping length	Contacts, Silver-plated	Order No.	Contacts, Silver-plated	Order No.
25mm ²	22.5mm	CSM200-25	4 200 110 10 125	CSF200-25	4 200 110 20 125
35mm ²	22.5mm	CSM200-35	4 200 110 10 135	CSF200-35	4 200 110 20 135
50mm ²	22.5mm	CSM200-50	4 200 110 10 150	CSF200-50	4 200 110 20 150
70mm ²	22.5mm	CSM200-70	4 200 110 10 170	CSF200-70	4 200 110 20 170



Code pin

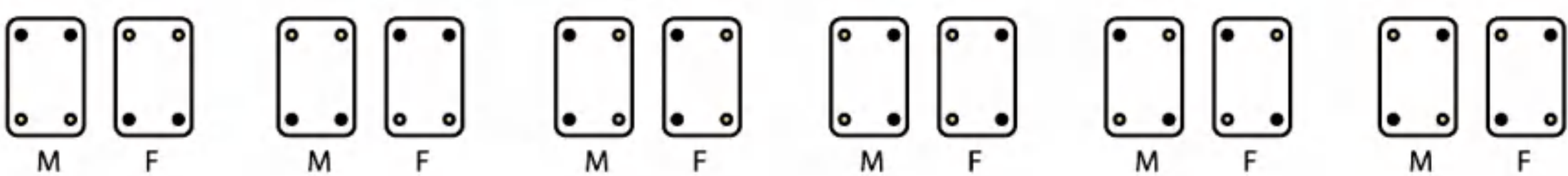


Order NO.:

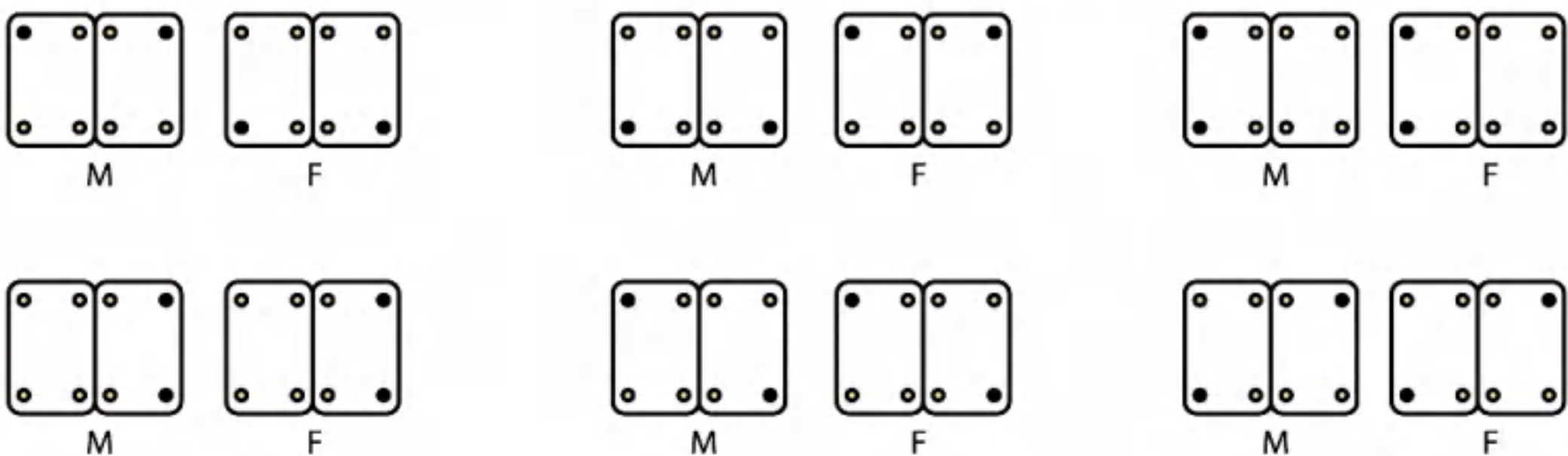
Coding pin

CODE-M3	5 000 300 00 001
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For hoods/housings with one insert/one frame

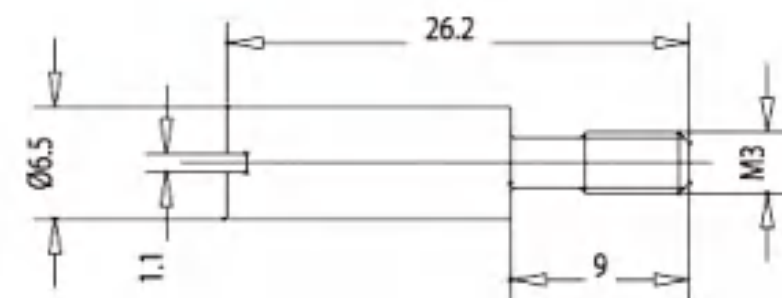


For hoods/housings with two inserts/two frames



- Code pins
- Normal mounting screw
- M– Male connector
- F– Female connector

Guide bush

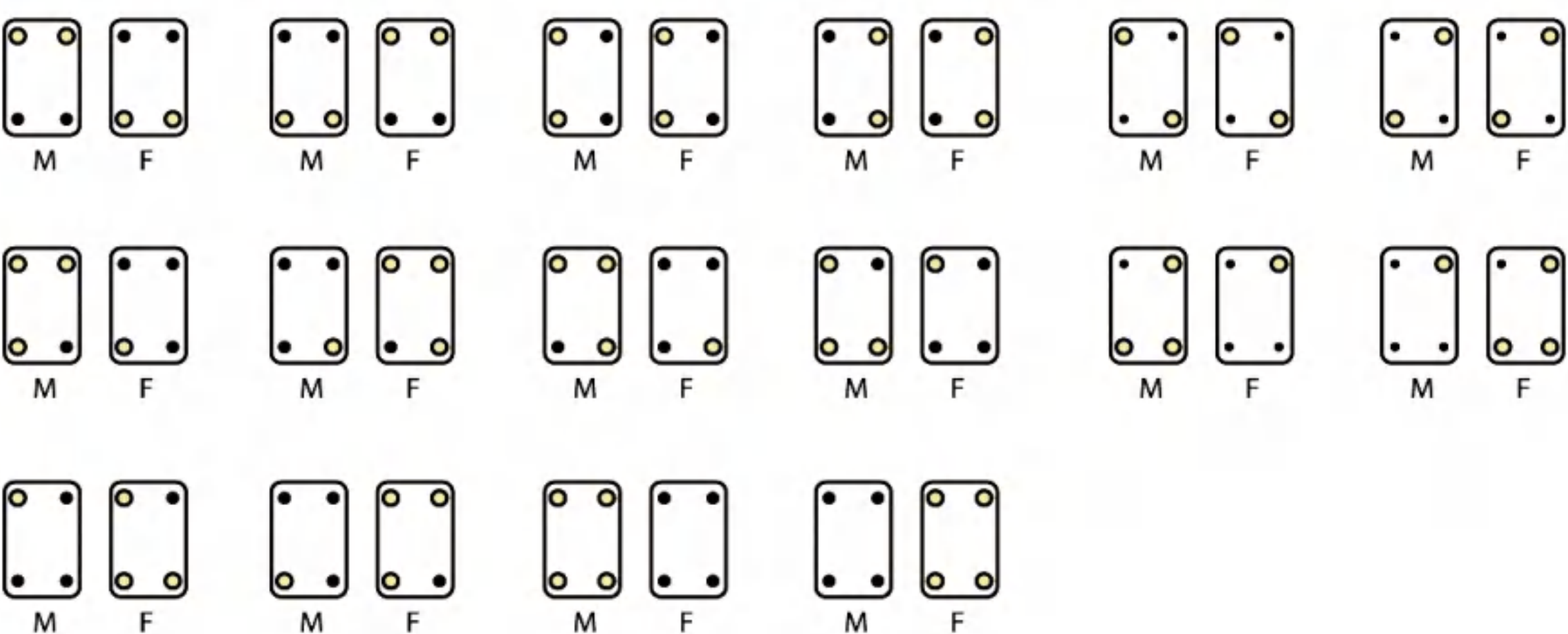


Order NO.:

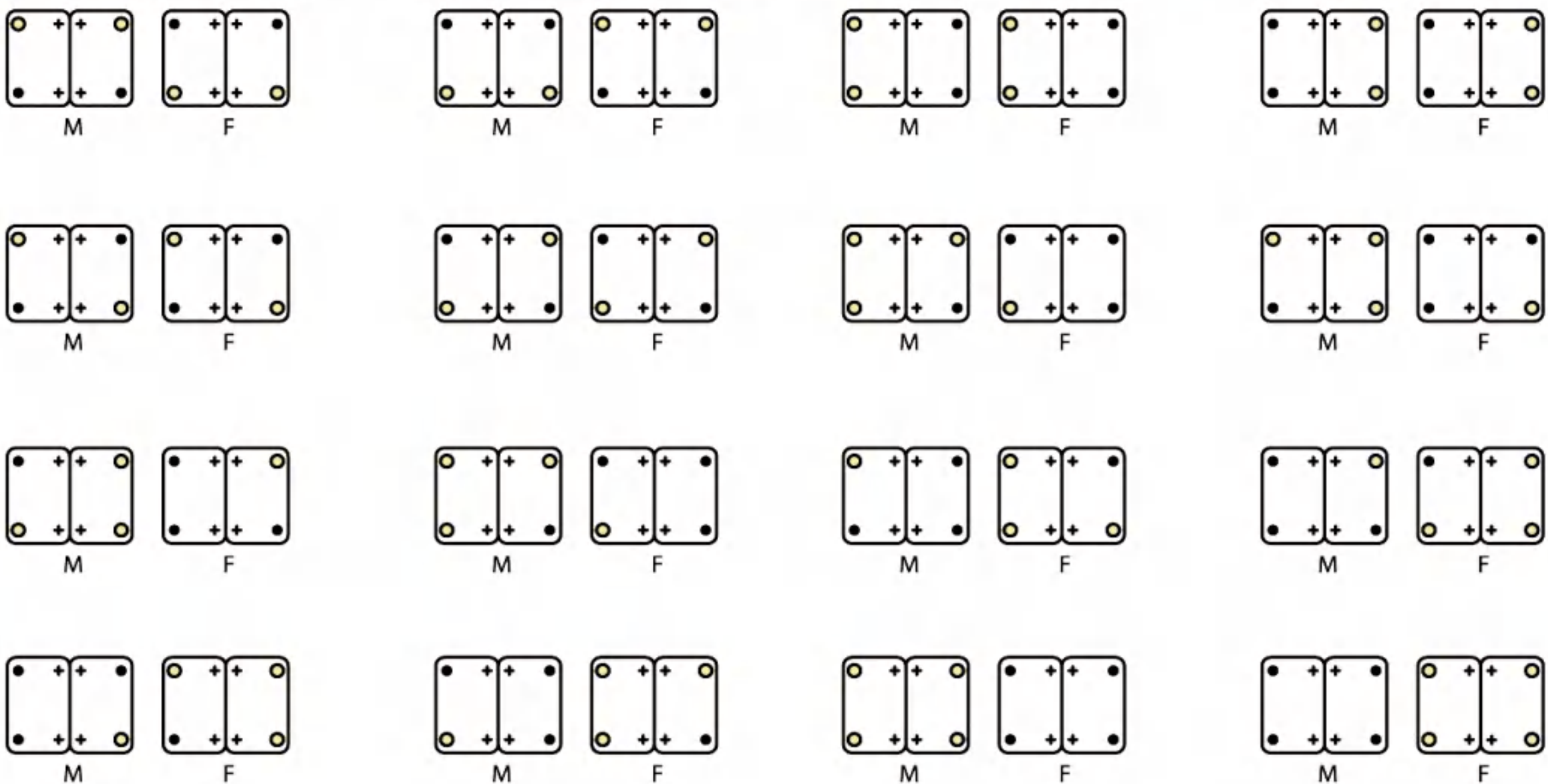
Guide hole

GBUSH-M3	5 000 300 00 002
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For hoods/housings with one insert/one frame



For hoods/housings with two inserts/two frames



- Guide bush
- Guide pin
- + Normal mounting screw
- M– Male connector
- F– Female connector

Order NO.:

Guide pin

GPIN-M3	5 000 300 00 003
---------	------------------

Model guide bush



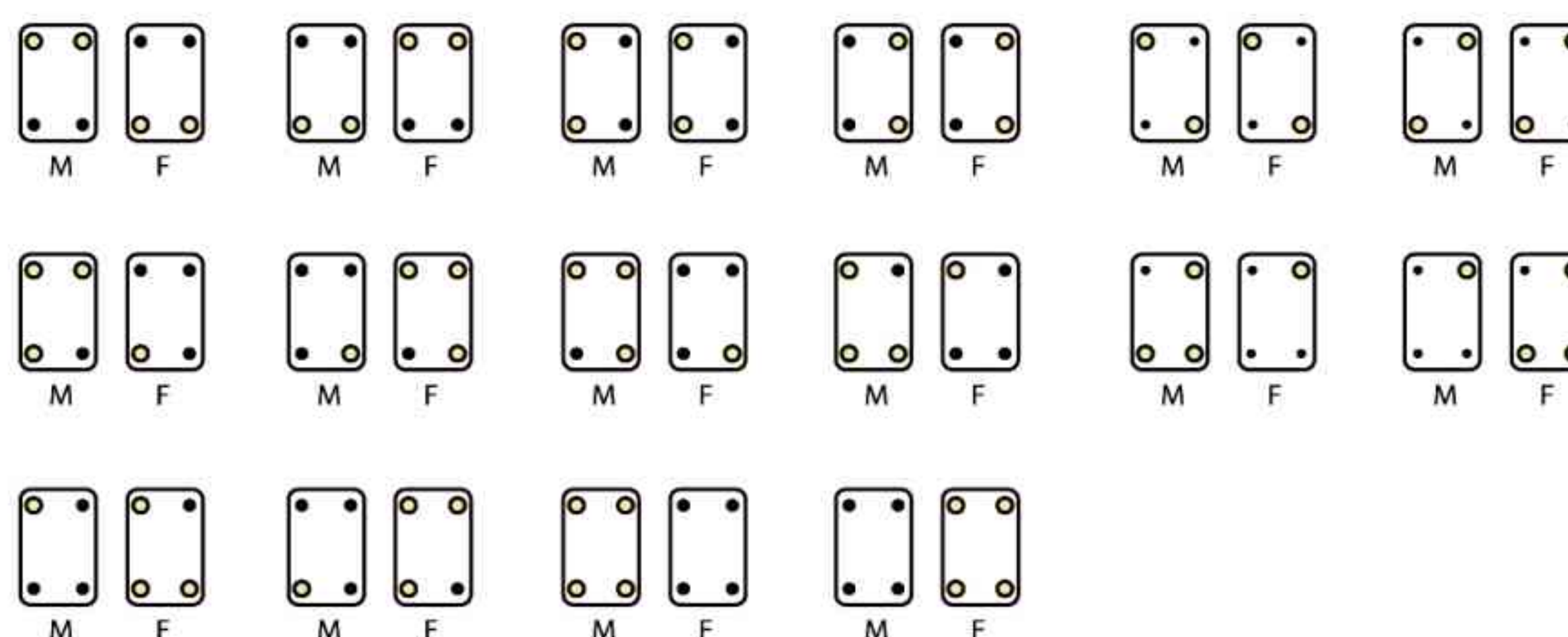
Order NO.:
Guide hole

MGBUSH-M3 | 5 000 300 00 004

MGBUSH-M3/S | 5 000 300 00 017

"/S" Indicates stainless steel material

For hoods/housings with one insert/one frame



Model guide pin



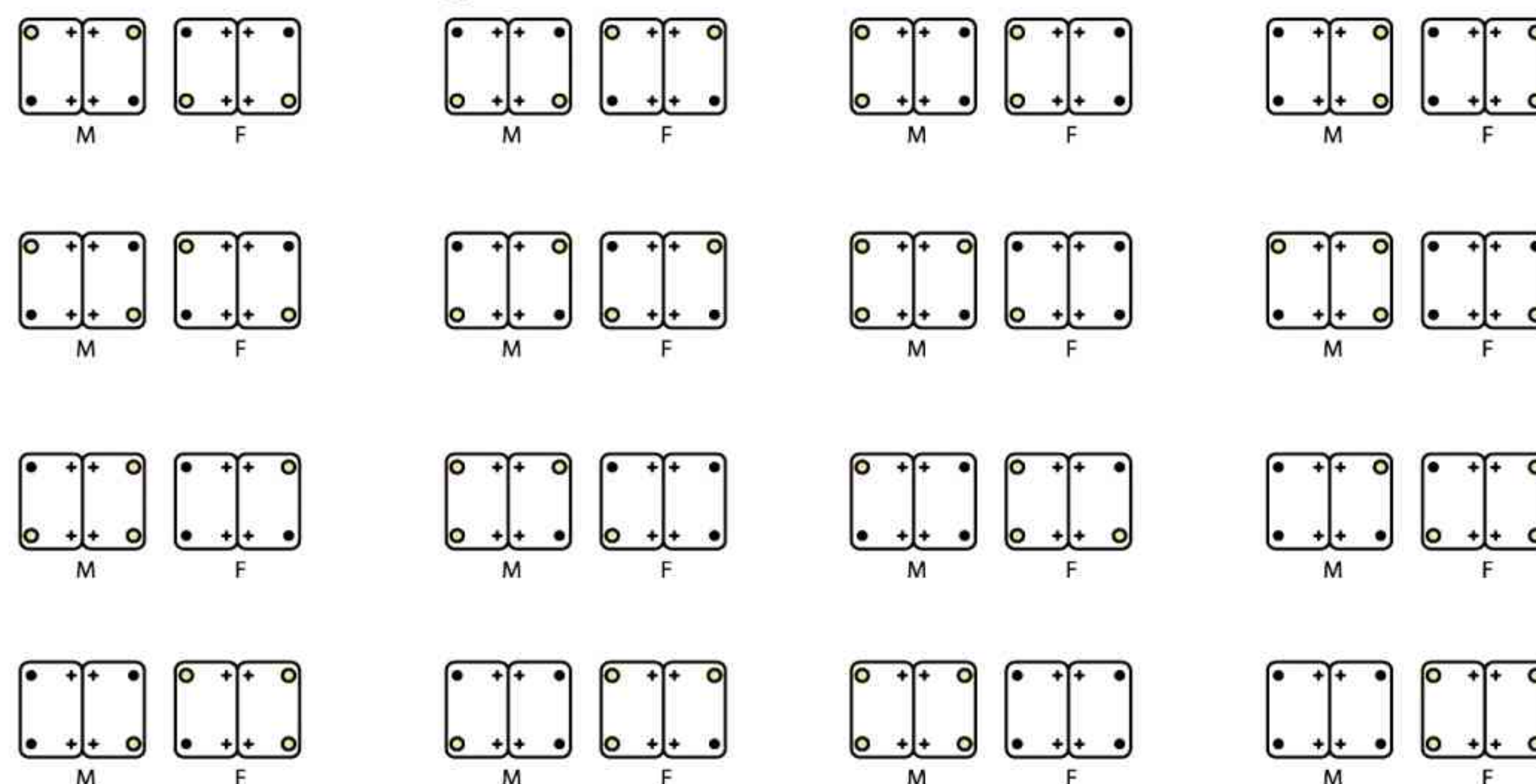
Order NO.:
Guide pin

MGPIN-M3 | 5 000 300 00 005

MGPIN-M3/S | 5 000 300 00 018

"/S" Indicates stainless steel material

For hoods/housings with two inserts/two frames



○ Guide bush

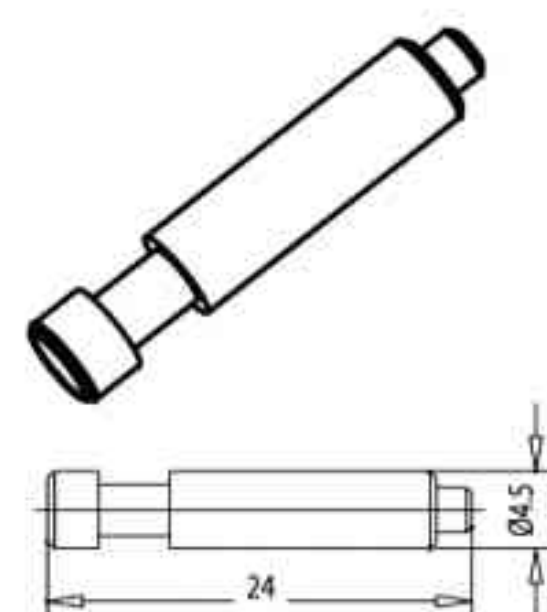
● Guide pin

+ Normal mounting screw

M–Male connector

F– Female connector

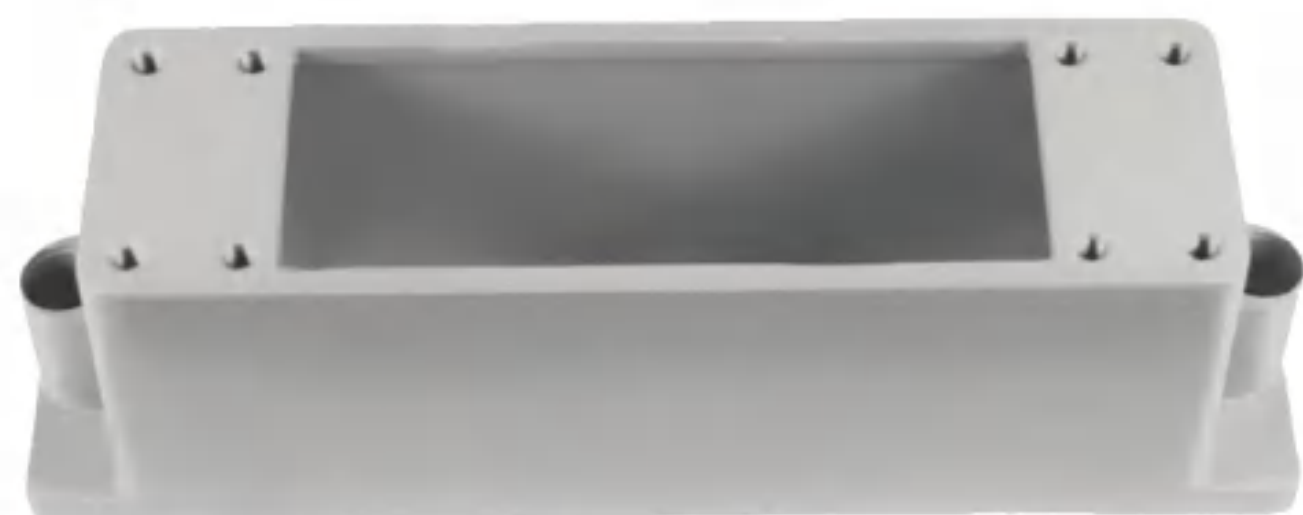
Code pin



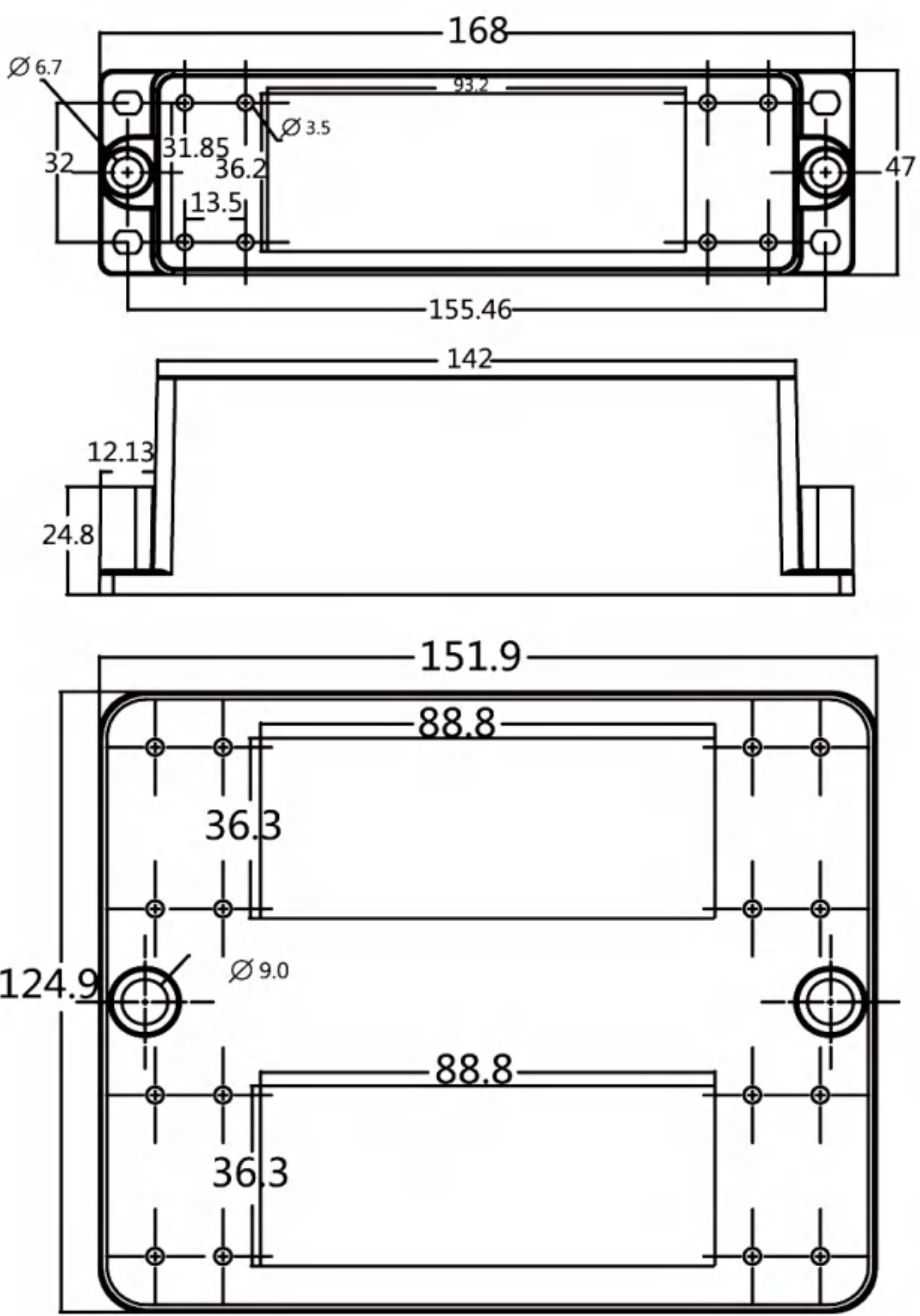
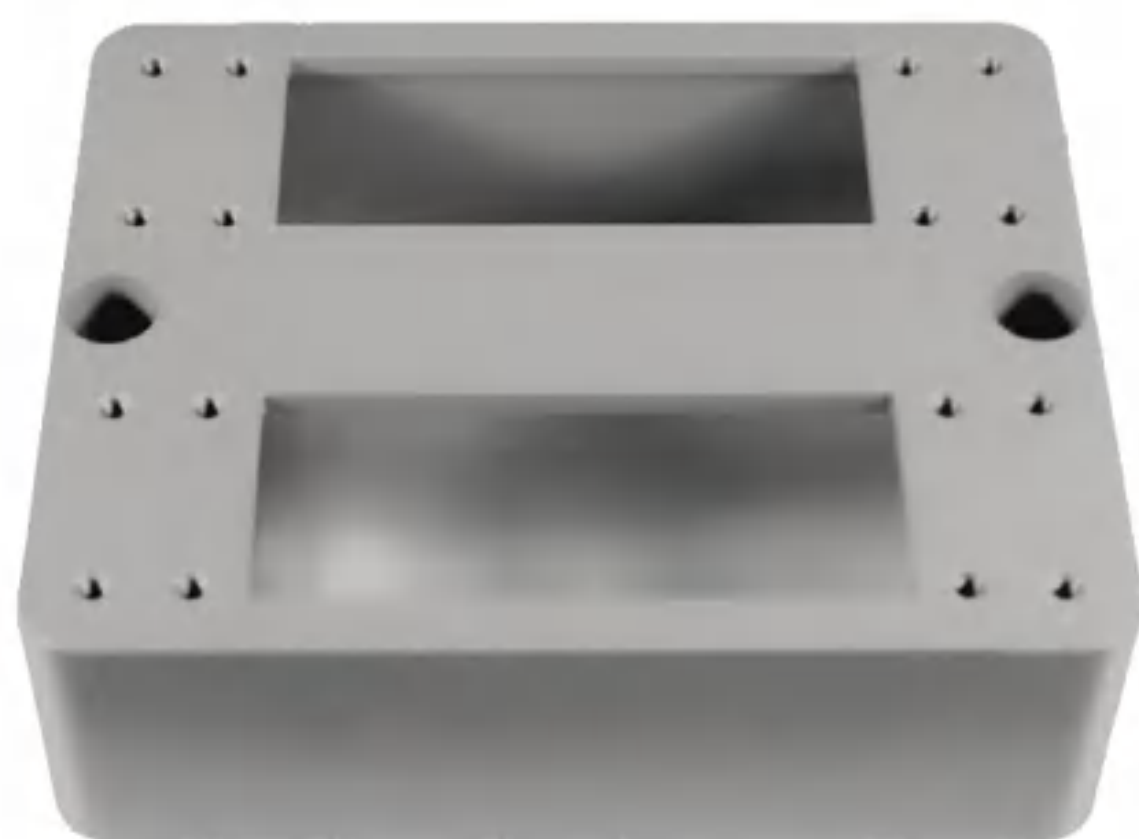
Coding pin

CODE-E | 5 000 300 00 006

- ① Use of the coding pin prevents incorrect mating to other connectors of the same type.
- ② For HEC, HEE, HQ 5/0, HM-006, HM-008
- ③ The male pin should be omitted from the opposing cavity in the male insert.



Junction box	
WF-16/24-1T (Blue)	5 024 317 62 000
WF-16/24-2T (Blue)	5 024 317 72 000
WF-16/24-1T (Grey)	5 024 317 60 000
WF-16/24-2T (Grey)	5 024 317 70 000
WF-16/24-1T (Orange)	5 024 317 61 000
WF-16/24-2T (Orange)	5 024 317 71 000
WF-16/24-1T (Black)	5 024 317 64 000
WF-16/24-2T (Black)	5 024 317 74 000



Tools

Attachment



HD Needle remover
WFT-HD01 | 5 010 200 00 001
HD Needle remover
Removal tool for crimp contacts



HEE Needle remover
WFT-HEE01 | 5 016 200 00 001
HEE Needle remover
Removal tool for crimp contacts



HM Needle puller
WFT-HM01 | 5 040 200 00 001
HM Needle puller
Removal tool for crimp contacts



HM Needle puller
WFT-HM02 | 6 000 79 107
HM Needle puller
Removal tool for crimp contacts



S-shaped Thread puller
WFT-S01 | 5 000 200 00 004
S-shaped Thread puller
Removal tool for crimp contacts



Cold pressing pliers (0.37-4)
WFT-LY01 | 5 000 100 00 001
Cold pressing pliers
Crimping tool



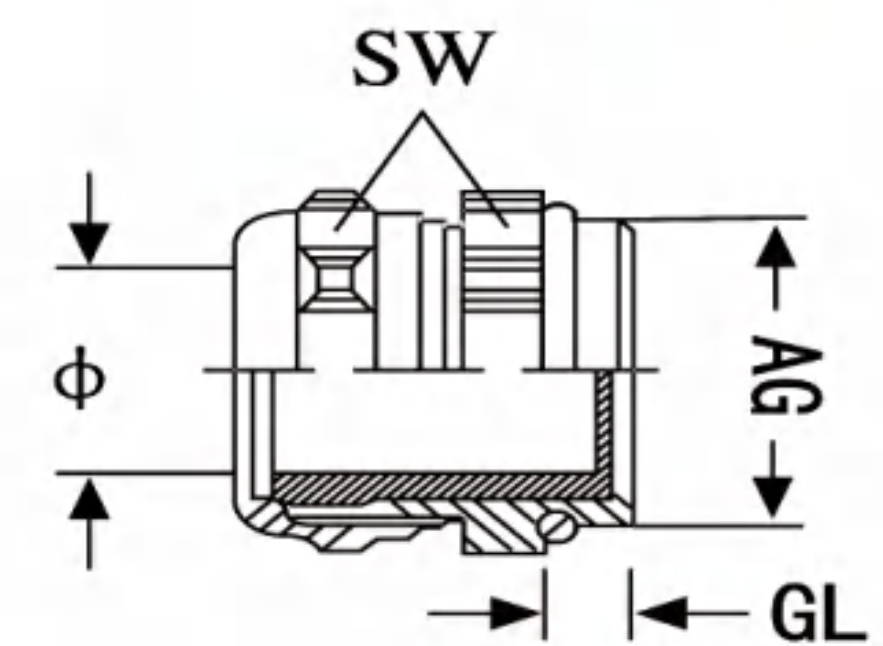
Cold pressing pliers (4-10)
WFT-LY02 | 5 000 100 00 002
Cold pressing pliers
Crimping tool



5A Cold pressing pliers (0.09-0.82)
WFT-LY04 | 5 000 100 00 005
Cold pressing pliers
Crimping tool

Cable glands, IP68, brass nicked-plated

Material	Nickel plated brass
Seal material	NBR
Press seal material	PA
Temperature range	-40°C ~ +100°C
Protection degree	IP68



Thread	Clamping range	AG	SW	GL	Designation	Order No.
PG						
Pg7	3–6.5	12.5	14	6	RSKM-PG7A-C-OM	6 001 100 20 100
Pg9	4–8	15.2	18	6.5	RSKM-PG7C-C-OM	6 001 100 21 100
Pg11	5–10	18.6	20	7	RSKM-PG11A-C-OM	6 001 100 22 100
Pg13.5	5–10	20.4	22	7.5	RSKM-PG13.5A-C-OM	6 001 100 23 100
Pg16	8–14	22.5	25	7	RSKM-PG16A-C-OM	6 001 100 24 100
Pg21	13–18	28.3	30	8	RSKM-PG21A-C-OM	6 001 100 25 100
Pg29	18–25	37	40	9.5	RSKM-PG29A-C-OM	6 001 100 26 100
Pg36	22–32	47	50	12	RSKM-PG36A-C-OM	6 001 100 27 100
Pg42	32–38	54	58	12	RSKM-PG42A-C-OM	6 001 100 28 100
Pg48	37–44	59.3	65	12	RSKM-PG48A-C-OM	6 001 100 29 100

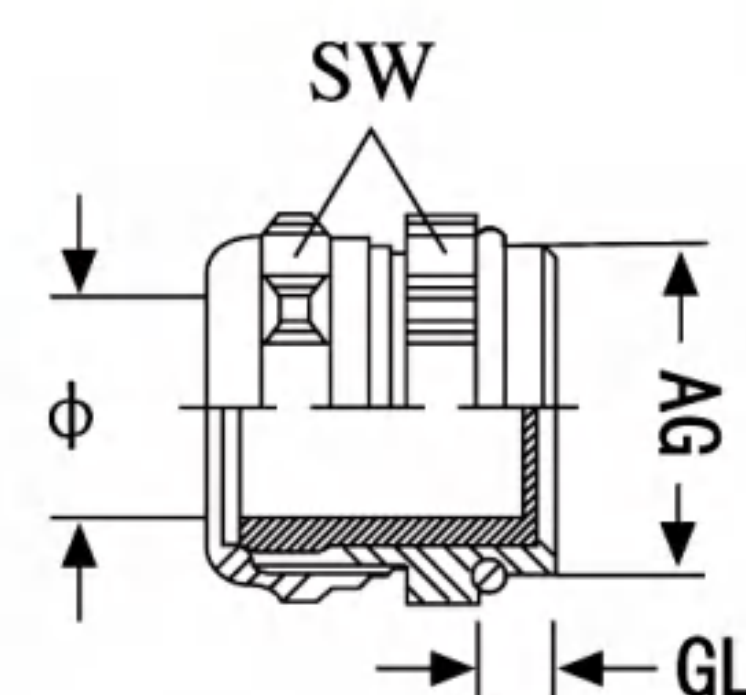
Metric

M12 × 1.5	3–6.5	12	14	6	RSKM-M12A-C-OM	6 001 100 01 100
M16 × 1.5	4–8	16	18	6.5	RSKM-M16A-C-OM	6 001 100 02 100
M16 × 1.5	5–10	16	20	6.5	RSKM-M16C-C-OM	6 001 100 02 200
M20 × 1.5	6–12	20	22	8	RSKM-M20A-C-OM	6 001 100 03 100
M20 × 1.5	8–14	20	27	8	RSKM-M20C-C-OM	6 001 100 03 200
M22 × 1.5	8–14	22	24	8	RSKM-M22A-C-OM	6 001 100 04 100
M25 × 1.5	9–16	25	27	7.5	RSKM-M25B-C-OM	6 001 100 05 200
M25 × 1.5	13–18	25	30	7.5	RSKM-M25A-C-OM	6 001 100 05 100
M32 × 1.5	18–25	32	40	8.5	RSKM-M32A-C-OM	6 001 100 06 100
M40 × 1.5	20–26	40	45	12	RSKM-M40B-C-OM	6 001 100 09 200
M40 × 1.5	22–32	40	45	12	RSKM-M40A-C-OM	6 001 100 09 100
M50 × 1.5	25–31	50	57	12	RSKM-M50B-C-OM	6 001 100 10 200
M50 × 1.5	32–38	50	57	12	RSKM-M50A-C-OM	6 001 100 10 100
M63 × 1.5	37–44	63	65	12	RSKM-M63A-C-OM	6 001 100 11 100

Attachment

Cable gland, IP68

Material	Ployamide
Seal material	NBR
Press seal material	PA
Temperature range	-40°C ~ +100
Protection degree	IP68



Thread	Clamping range	AG	SW	GL	Designation	Order No.
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PG

Pg7	3–6.5	12.5	15	8	RSKP-PG7A(N)	6 002 111 20 100
Pg9	4–8	15.2	19	8	RSKP-PG9A(N)	6 002 111 21 100
Pg11	5–10	18.3	22	8	RSKP-PG11A(N)	6 002 111 22 100
Pg13.5	6–12	20.4	24	10	RSKP-PG13.5A(N)	6 002 111 23 100
Pg16	10–15	22.5	27	10	RSKP-PG16A(N)	6 002 111 24 100
Pg21	14–18	28.3	33	11	RSKP-PG21A(N)	6 002 111 25 100
Pg29	18–25	37	42	11	RSKP-PG29A(N)	6 002 111 26 100
Pg36	24–32	47	52	13	RSKP-PG36A (N)	6 002 111 27 100
Pg42	32–38	54	59	14.5	RSKP-PG42A(N)	6 002 111 28 100
Pg48	37–44	59.3	65	14	RSKP-PG48A (N)	6 002 111 29 100

Metric

M12 × 1.5	3–6.5	12	16.7	7	RSKP-M12A (N)	6 002 111 01 100
M16 × 1.5	4–8	16	19	8	RSKP-M16A(N)	6 002 111 02 100
M20 × 1.5	5–9	20	24	10	RSKP-M20B (N)	6 002 111 03 100
M20 × 1.5	7–12	20	24	10	RSKP-M20A (N)	6 002 111 04 100
M22 × 1.5	10–15	22	27	10	RSKP-M22A (N)	6 002 111 05 100
M25 × 1.5	14–18	25	33	11	RSKP-M25A (N)	6 002 111 06 100
M32 × 1.5	18–25	32	42	11	RSKP-M32A(N)	6 002 111 07 100
M40 × 1.5	24–32	40	52	13	RSKP-M40A(N)	6 002 111 09 100
M50 × 1.5	32–38	50	60	13	RSKP-M50A (N)	6 002 111 10 100
M63 × 1.5	37–44	63	65	14	RSKP-M63A(N)	6 002 111 11 100

Attachment

Cross reference from PG thread to metric cable thread

Table: Conversion Chart for PG Thread to M Thread	
PG	M
PG11	M20
PG13.5	M20
PG16	M25
PG21	M32
PG29	M40
PG36	M50
PG42	M63
PG48	M63

Nylon flexible tube connectors

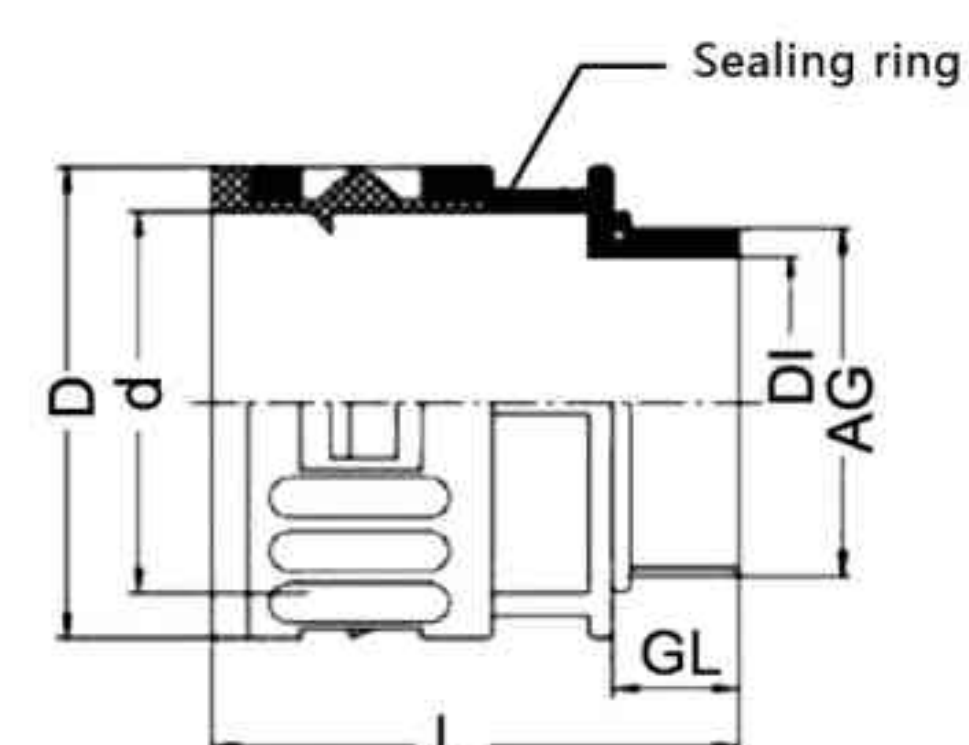
Material

Temperature range

-40°C ~ +100°C

Protection degree

IP40–IP65



Thread	d	GL	H	D	Designation	Order No.
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PG

PG9	10	8.5	30	26	WFJ-PG9 (4-8)	6 001 100 21 100
PG11	12	10.5	32	27.5	WFJ-PG11 (5-10)	6 001 100 22 100
PG13.5	15	11.5	34	31.5	WFJ-PG13.5 (6-12)	6 001 100 23 100
PG16	15	12.5	34	32	WFJ-PG16 (8-14)	6 001 100 24 100
PG21	20	13.5	37	38	WFJ-PG21(13-18)	6 001 100 25 100
PG29	25	15	44	45.5	WFJ-PG29(18-25)	6 001 100 26 100
PG36	38	17	51	62	WFJ-PG36(22-32)	6 001 100 27 100
PG42	38	17	51	62	WFJ-PG42(31-38)	6 001 100 28 100
PG48	51	19	56	77.5	WFJ-PG48(37-44)	6 001 100 29 100

Metric

M16x1.5	8	8	28	24	WFJ-M16(4-8)	6 001 100 02 100
M16x1.5	10	8	30	25.5	WFJ-M16(5-10)	6 001 100 02 200
M20x1.5	12	10	32	27.5	WFJ-M20(6-12)	6 001 100 03 100
M25x1.5	20	12	37	37.5	WFJ-M25(13-18)	6 001 100 05 100
M32x1.5	25	15	41	46	WFJ-M32(18-25)	6 001 100 06 100
M40x1.5	32	15	47	55	WFJ-M40(22-30)	6 001 100 09 100

Nylon flexible tube connectors

Cap

Material	Bronze and nylon plastic
Temperature range	Brass: -40°C~+100°C Plastic: -20°C~+80°C
Protection degree	IP40-IP65



Thread	GL	DI	D	Designation	Order No.
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Metal

PG21	12	23.5	37	WFP-PG21	6 001 300 25 000
PG29	12	30	44	WFP-PG29	6 001 300 26 000

M25	12	30	44	RPM-M25A-L8 -C-OM	6 001 300 05 000
M32	12	30	44	RPM-M32A-L8 -C-0	6 001 300 06 000

Plastic

PG16	12	23.5	37	WFPP-PG16	6 002 320 24 000
PG21	12	30	44	WFPP-PG21	6 002 320 25 000

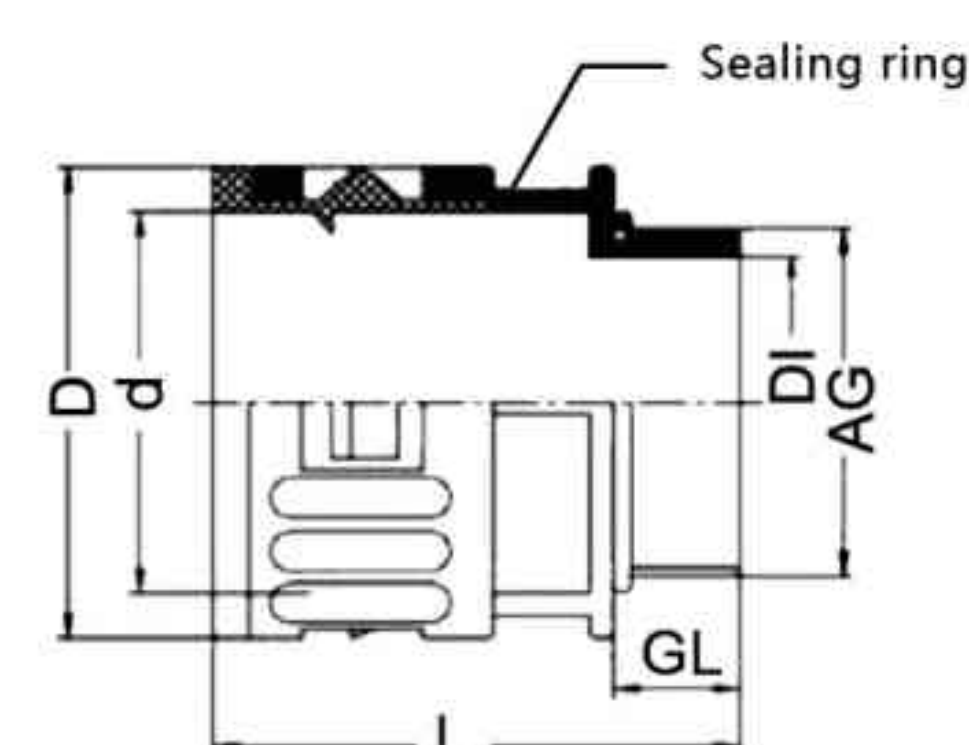
M20	12	23.5	37	WFPP-M20	6 002 320 03 000
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Attachment

Plastic hose connector
(Equipped with plastic
corrugated pipes)

Nylon flexible tube connectors

Material PA
Temperature range $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Protection degree IP40–IP65



Thread	d	GL	DI	D	Designation	Order No.
PG						
PG7	AD10.0	9.5	7.5	17.0	WFN-PG7B/AD10.0	6 002 220 20 100
PG9	AD13.0	9.5	11.5	20.0	WFN-PG9B/AD13.0	6 002 220 21 100
PG11	AD15.8	9.5	14.0	23.0	WFN-PG11B/AD15.8	6 002 220 22 100
PG13.5	AD18.5	11.0	16.0	26.0	WFN-PG13.5B/AD18.5	6 002 220 23 100
PG16	AD21.2	13.0	18.0	29.5	WFN-PG16B/AD21.2	6 002 220 24 100
PG21	AD28.5	13.0	23.5	37.0	WFN-PG21B/AD28.5	6 002 220 25 100
PG29	AD34.5	11.5	30.5	43.5	WFN-PG29B/AD34.5	6 002 220 26 100
PG36	AD42.5	13.5	40.0	51.0	WFN-PG36B/AD42.5	6 002 220 27 100
Metric						
M12x1.5	AD10.0	10.0	8.0	17.0	WFN-M12B/AD10.0	6 002 220 01 100
M16x1.5	AD13.0	9.5	11.5	20.0	WFN-M16B/AD13.0	6 002 220 02 100
M20x1.5	AD18.5	11.0	16.0	26.0	WFN-M20B/AD18.5	6 002 220 03 200
M20x1.5	AD21.2	13.0	15.0	29.5	WFN-M20B/AD21.2	6 002 220 03 300
M25x1.5	AD21.2	13.0	18.0	29.5	WFN-M25B/AD21.2	6 002 220 05 100
M25x1.5	AD28.5	13.0	20.5	37.0	WFN-M25B/AD28.5	6 002 220 05 300
M32x1.5	AD28.5	13.0	24.0	37.0	WFN-M32B/AD28.5	6 002 220 06 100
M40x1.5	AD34.5	11.0	30.0	43.5	WFN-M40B/AD34.5	6 002 220 09 100
M40x1.5	AD42.5	13.5	33.5	51.0	WFN-M40B/AD42.5	6 002 220 09 100
M50x1.5	AD54.5	13.5	42.5	63.5	WFN-M50B/AD54.5	6 002 220 10 100
M63x1.5	AD54.5	14.0	55.0	63.5	WFN-M63B/AD54.5	6 002 220 11 100

Metal nut

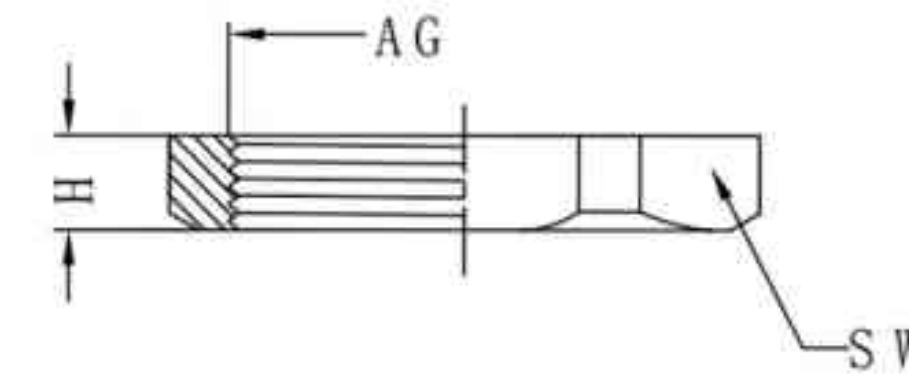
Nickel plated brass
IP68

Material

Nickel plated brass

Temperature range

-40°C ~ +100°C

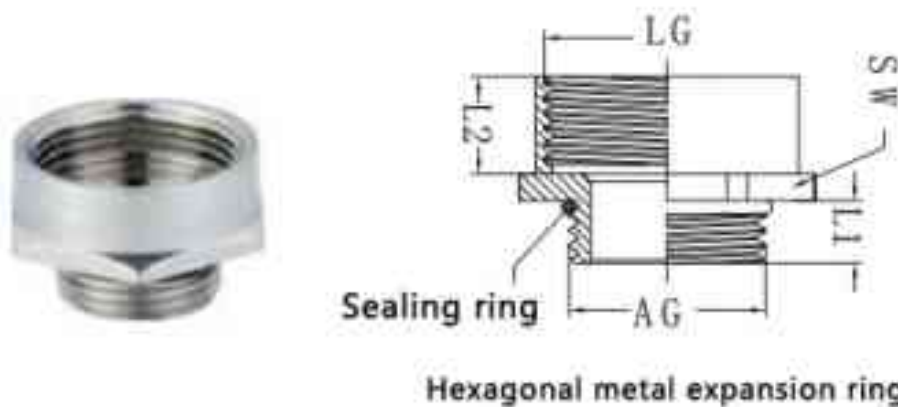


Thread	SW	GL	Designation	Order No.
PG				
Pg7	15	2.8	WFJ-PG7 (Nut)	6 001 400 20 000
Pg9	18	2.8	WFJ-PG9 (Nut)	6 001 400 21 000
Pg11	21	3.0	WFJ-PG11 (Nut)	6 001 400 22 000
Pg13.5	22	3.0	WFJ-PG13.5 (Nut)	6 001 400 23 000
Pg16	24	3.0	WFJ-PG16 (Nut)	6 001 400 24 000
Pg21	30	3.5	WFJ-PG21 (Nut)	6 001 400 25 000
Pg29	40	4.0	WFJ-PG29 (Nut)	6 001 400 26 100
Pg36	50	4.5	WFJ-PG36 (Nut)	6 001 400 27 100
Metric				
M12x1.5	15	2.8	WFJ-M12 (Nut)	6 001 400 01 000
M16x1.5	18	2.8	WFJ-M16 (Nut)	6 001 400 02 000
M20x1.5	22	3.0	WFJ-M20 (Nut)	6 001 400 03 000
M25x1.5	27	3.0	WFJ-M25 (Nut)	6 001 400 05 000
M32x1.5	35	3.5	WFJ-M32 (Nut)	6 001 400 06 000

Attachment

Metal enlargement

Material Nickel-plate brass
 Temperature range -20°C~+120°C

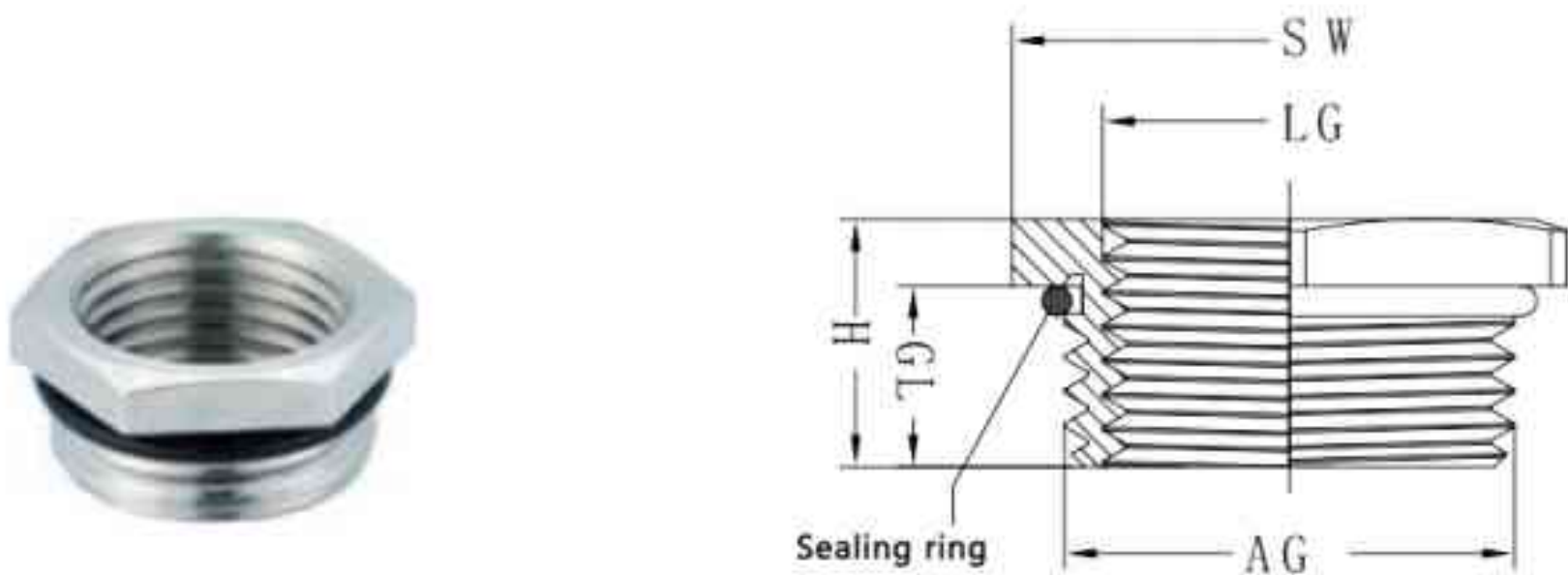


(AG) (Outside thread)	(LG) (Inside thread)	(L1) (Outside thread length)	(L2) (Inside thread length)	(SW) (Wrench size)	(Designation)	(Order No.)
PG/Metric						
M25x1.5	M32x1.5	7.5	13.5	35	RWM-M25/ 32-C-0	6 001 500 05 006

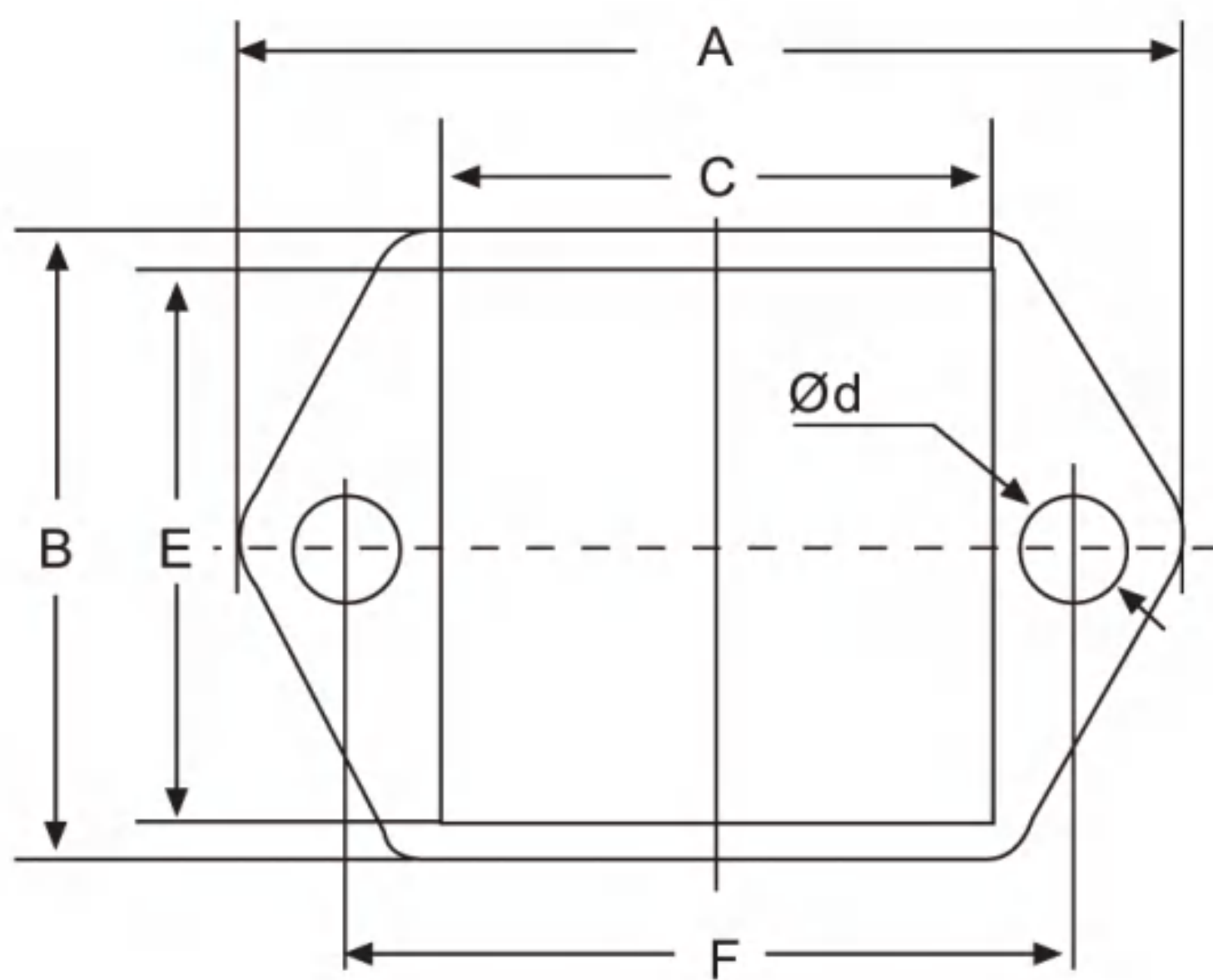
Attachment

Metal reducer

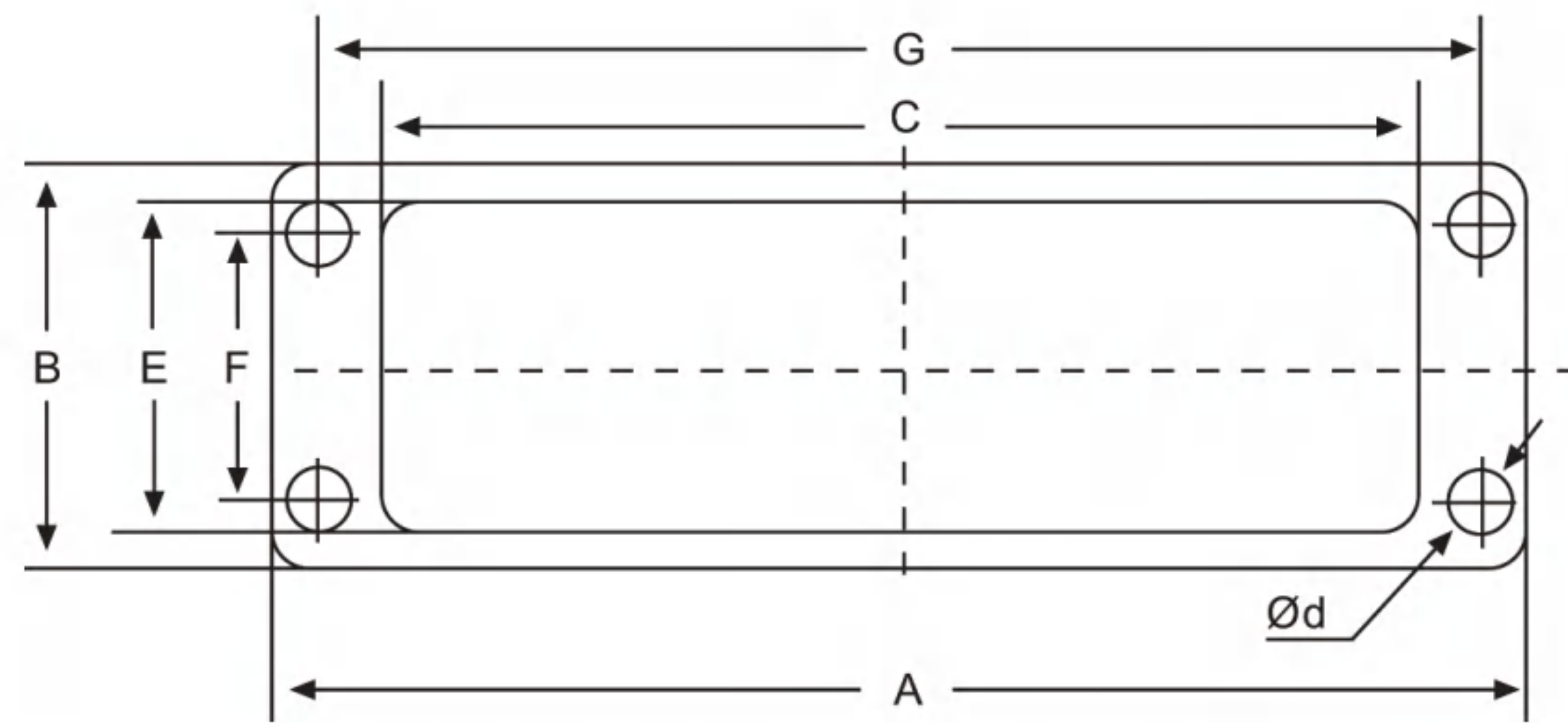
Material Nickel-plate brass
 Temperature range -20°C~+120°C



(AG) (Outside thread)	(LG) (Inside thread)	(L1) (Outside thread length)	(H) (TTotal length)	(SW) (Wrench size)	(Designation)	(Order No.)
PG/Metric						
M40x1.5	M25x1.5	9.0	13	42	WFJ-M40/M25	6 001 600 09 005
M50x1.5	M32x1.5	10.0	14	55	WFJ-M50/M32	6 001 600 10 006
PG21	PG16	7.0	11	30	WFJ-PG21/PG16	6 001 600 25 024



H3A housing



H10A,H16A,H32A Hole-embedded base/HA series housings
H6B,H10B,H16B,H24B,H32B,H48B Hole-embedded base/HB series housings

Shell type	Mounting form	Dimensions(mm)						
		A	B	C	E	F	G	Ød
H3A	Bulkhead	42.8	30	21	21	30	-	3.3
	Surface	42.8	30.8	-	-	30	-	3.3
H10A	Bulkhead	82.5	32.5	57.5	24	17.5	70	3.6
	Surface	75	50	-	-	40	48	4.5
H16A	Bulkhead	96	29.5	73.7	24	17.5	86	3.6
	Surface	95	50	-	-	40	64	4.5
H32A	Bulkhead	102	56	74.2	48.4	42	92	4.3
	Surface	105.5	56.5	-	-	46	94	5.5
H6B	Bulkhead	80	45	52.2	35	32	70	4.3
	Surface	82	52	-	-	40	70	5.5
	Surface	82	52	-	-	45	70	5.5
H10B	Bulkhead	93.5	45	65.2	35	32	83	4.3
	Surface	94	52	-	-	40	82	5.5
	Surface	94	52	-	-	45	82	5.5
H16B	Bulkhead	113.5	45	85.5	35	32	103	4.3
	Surface	116.5	57	-	-	45	105	5.5
H24B	Bulkhead	140	45	112.2	35	32	130	4.3
	Surface	144	57	-	-	45	132	5.5
H32B	Bulkhead	124	83	85.5	71	65	110	5.5
	Surface	125	86	-	-	67	112	5.5
H48B	Bulkhead	165.5	96	124	82	70	147.5	7
	Surface	141	119	-	-	106	111	6.5
	P Installation	150	83	113.5	76	60	130	5.5



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