

Heavy Duty Connector (Rectangle)



WEIPU was established in 1996, specialize in R&D and manufacturing the industrial connectors, we are the member of “National Electrical Appliances Standardization Technical Committees” and one of the members to draft the national standard for industrial connectors GB/T11918.



WEIPU Factory



Laboratory



- **Vibration Test Equipment**
- **Instant Circuit Breaker Tester**
- **Mating Cycle Lifetime Tester**
- **Optical Comparator**

Catalog

Insert Catalog

Series	Rated Voltage	Rated Current	Number of Contacts	Termination	Page
HA Series-Mini Insert	230/400 250V	10A 16A	3,4, 10,16,32	Screw Termination Crimp Termination	01 /01-05
HE Series-Regular Insert	500V	16A	6,10,16, 24,32,48	Screw Termination Crimp Termination Cage Clamp Termination	02 /01-07
HVE Series- High Voltage Insert	830V 400V/690V	16A 16A	3,6,10,12,20 16,32	Screw Termination Crimp Termination	03 /01-08
HEE Series- High Density Insert	500V 690V 1000V	16A	10,18,32, 46,40,64, 92	Crimp Termination	04 /01-08
HEEE Series- High Density Insert	200V 500V	16A	15 20,32,40,64,80, 128	Crimp Termination	05 /01-05
HD&HDD Series- High Density Insert	120VDC/50VAC 250V *400V,500V	10A 10A	8 7-216	Crimp Termination	06 /01-20
HSB Series- High Current Insert	400/690V	35A	6,12	Screw Termination	07 /01-03
HK Series-High Current Combination Insert	160-830V	10/100A	4,4+2,4+8,6+6, 6+12,6+36,8, 8+24,12+2	Screw Termination Crimp Termination	08 /01-18
HEAV Series-Extended Insert	500V	16A	6,10,16,24	Screw Termination	09 /01-05
HM Series-Modular Insert	50V-1000V Optical Module, Pneumatic Module	1A-200A	1-25	Screw Termination Crimp Termination	10 /01-40
HQ Series-Compact Insert	230/400V	16A	5	Crimp Termination	11 /01-06

Crimp Contact

Types	Page
5A 10A 16A 40A 200A	12 /01-02

Insert Accessories

Types	Page
Rail Bracket Suite	13 /01-02
Coding Pin	14 /01-02

Hoods/Housings Catalog

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10AHoods/Housings	Metal	16 /01-02
16AHoods/Housings	Metal	17 /01-02
32AHoods/Housings	Metal	18 /01-03
6BHoods/Housings	Plastic, Metal, IP68/IP69K	19 /01-05
10BHoods/Housings	Plastic, Metal, IP68/IP69K	20 /01-08
16BHoods/Housings	Plastic, Metal, IP68/IP69K	21 /01-09
24BHoods/Housings	Plastic, Metal, IP68/IP69K	22 /01-09
32BHoods/Housings	Metal	23 /01-03
48BHoods/Housings	Metal	24 /01-02

Tools, Cable Gland

Types	Page
Tools	25 /01

WEIPU® Description

Heavy-duty connectors are mainly used for electrical or signal connections between different equipment or functional units, which provide great convenience for the installation and maintenance of complex control equipment.

They are also widely used in rail transit, industrial automation, mechanical equipment, electric locomotives, petrochemical power and other applications that require electrical and signal connections. Heavy-duty connectors are standard electrical connection components for Industry 4.0.



/////Hoods/Housings

The hoods/housings of heavy-duty connectors are made of cast aluminum or flame-retardant thermoplastic material, and the surface of the hoods/housings is powder-coated to make it resistant to shock and mechanical stress. The fireproof level of the sealing gasket between the hoods/housings reaches the V-0 rating, which enables the product to reach the IP65 rating.

Various cable glands and hoods/housing forms provide a variety of solutions for different installation needs.

/////Notes

1. The connectors included in this catalogue should not be coupled or decoupled under electrical load
2. Plugs and sockets should not be powered until they are properly connected
3. The provision of protection against electric shock is the responsibility of the user. Protection can be achieved by the use of WEIPU protective covers and hoods/housings coupled with, or alternatively appropriate installation methods provided by the user.
4. WEIPU female plug mating surface provides finger protection against electric shock with/without mating.

/////Insert

The insert is made of UL94 V-0 thermoplastic material. The termination types are screw, crimp, and cage clamp termination.

/////Design Standard

IEC 61984、IEC60664-1、IEC60352、IEC60529、EN 175301-801

Product Selection Steps

Insert

- Male Insert
Termination: screw termination, crimp termination, cage clamp termination, axial screw termination
- Female Insert
Termination: screw termination, crimp termination, cage clamp termination, axial screw termination

Hoods/Housings

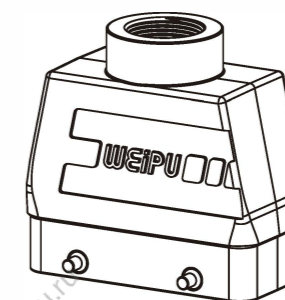
- Material
aluminum alloy, thermoplastic, high corrosion resistance
- Hoods
Types: low structure or high structure, top entry or side entry, two lugs or four lugs
- Housings
Types: low structure or high structure, bottom entry or side entry, single entry or double entry, single locking lever or double locking lever, two lugs or four lugs
- Lock
Types: stainless steel, stainless steel with soft rubber, stainless steel with plastic, iron with spring
- Cable to Cable Hoods/Housings
Types: low structure or high structure, top entry or side entry, single locking lever or double locking lever

Cable Gland

- Metal/Plastic
- Single-outlet/Multi-outlet



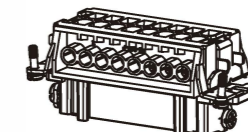
Cable Gland



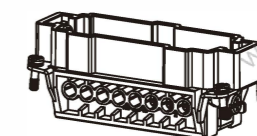
Hoods



Female Contact



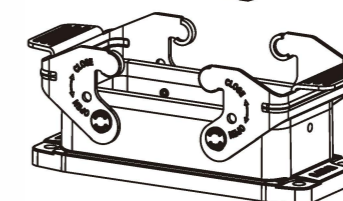
Female Insert



Male Insert



Male Contact



Housings

A Series

Insert	HA Series Screw Termination Crimp Termination	HD Series Crimp Termination	HQ Series Crimp Termination	HM Series Screw Termination	Housings
3A	 230/400V 10A 3P+ Ⓢ	 250V 10A 7P+ Ⓢ			
	 230/400V 10A 4P+ Ⓢ	 -120V/-50V 10A 8P+ Ⓢ	 400V 10A 12P+ Ⓢ		
			 230/400V 16A 5P+ Ⓢ		
10A	 250V 16A 10P+ Ⓢ	 250V 10A 15P+ Ⓢ			
	 500V 16A 16P+ Ⓢ	 250V 10A 25P+ Ⓢ			
16A					
32A	16A Hoods/Housings				

B Series

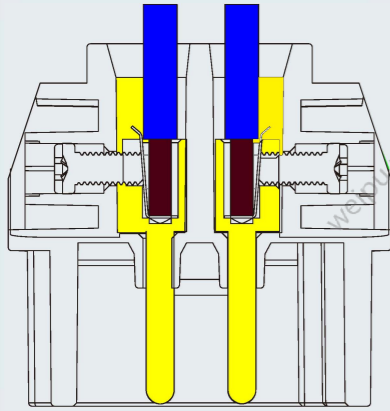
Insert	HE Series Screw Termination Crimp Termination Cage Clamp Termination	HVE Series Screw Termination Crimp Termination	HEE Series Crimp Termination	HEEE Series Crimp Termination	HD/HDD Series Crimp Termination	HSB Series Screw Termination	HK Series Screw Termination Crimp Termination	HM Series Screw Termination Crimp Termination	Housings
6B	 500V 16A 6P+ Ⓢ		 500V 16A 10P+ Ⓢ						
					 250V 10A 24P+ Ⓢ			 require 2 modules	
10B	 500V 16A 10P+ Ⓢ	 830V 16A 3+2P+ Ⓢ	 500V 16A 18P+ Ⓢ						
					 250V 10A 42P+ Ⓢ			 require 3 modules	
16B	 500V 16A 16P+ Ⓢ	 830V 16A 6+2P+ Ⓢ	 500V 16A 32P+ Ⓢ		 250V 10A 40P+ Ⓢ	 400/690V 35A 6P+ Ⓢ	 830/400V 80/16A 4/0P+ Ⓢ 830/400V 80/16A 4/2P+ Ⓢ		
					 500V 16A 40P+ Ⓢ	 250V 10A 72P+ Ⓢ	 600/60V 40/10A 6/3P+ Ⓢ	 require 4 modules	
24B	 500V 16A 24P+ Ⓢ	 830V 16A 10+2P+ Ⓢ	 500V 16A 48P+ Ⓢ		 250V 10A 64P+ Ⓢ		 830/400V 80/16A 4/8P+ Ⓢ		
		 830V 16A 16+2P+ Ⓢ		 500V 16A 64P+ Ⓢ	 250V 10A 108P+ Ⓢ		 830/400V 100/16A 6/6P+ Ⓢ	 require 6 modules	
32B	16B Hoods/Housings								
48B	24B Hoods/Housings								

Termination Type

Screw Termination

Screw termination conforms to the VDE 0609/EN60 999 standard

VDE 0609/EN 60 999



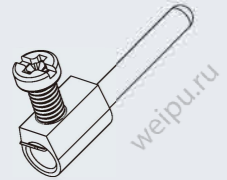
- See below table for more details
- Two types of screw termination: with wire pressing piece and without wire pressing piece

Thread Size and Torque

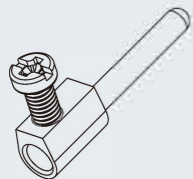
Wire Size (mm ²)	1.5	2.5	4.0	6.0	10	16
Thread Size	M3	M3	M3.5	M4	M4	M6
Torque (N.m)	0.6	0.6	0.6	1.2	1.2	1.2 ^a
Minimum Pull-out Force (N)	40	50	60	80	90	100

a. Suitable for headless screws

with wire pressing piece



without wire pressing piece



Screw Termination

Insert	with Wire Pressing Piece		Min Wire Cross Section		Max Wire Cross Section		Stripping Length mm
	Yes	No	(mm ²)	AWG	(mm ²)	AWG	
HA-003/HA-004		✓	0.75	18	1.5	16	4.5
HA-010/HA-016/HA-032	✓		0.75	18	2.5	14	7.5
HE Series, HVE Series	✓		0.75	18	2.5	14	7.5
HSB Series	✓		1.5	16	6	10	11.5
HK006/6, HK006/12 (Signal Pin)	✓		0.2	24	2.5	14	7.5
HK004/2, HK004/8 (Signal Pin)	✓		0.5	20	2.5	14	7.5
HK-004/0, HK-004/2, HK-004/8 (High Power Pin)		✓	1.5	16	16	6	14
HEAV Series		✓	0.2	24	2.5	14	8-11

Screw torque and recommended screwdriver

Thread Size	Screw Types	Applicable Inserts	Tightening Torque (N · m)	Tightening Torque (Lbft)	Recommended Screwdriver
M3	locking pin screw	HA-003/HA-004, HQ-005/HQ-007/HQ-012 (PE)	0.25	0.2	cruciformPH0
	locking pin screw	HEAV, HK-006/6(signal pin), HK-006/12(signal pin)	0.5	0.4	linear shape0.6X3.5
	locking pin screw	HA-010/HA-016/HA-032, HE, HVE, HME-005, HWK-006/6(signal pin)	0.5	0.4	linear shape0.6X3.5 or cruciformPH1
	shell fastening screw	HA-003/HA-004, HD-007/HD-008, HQ-005/HQ007/HQ-012	0.5	0.4	cruciformPh1
	shell fastening screw	HA-010/HA-016/HA-032, HE, HVE, HEE, HD/HDD, HSB, HK, HWK, HEAV	0.5	0.4	linear shape0.6X3.5 or cruciformPH1 or cruciformPH2
	coding pin	CODE-M3	0.5	0.4	linear shape1X6.0
M3.5	grounding screw	HA-010/HA-016/HA-032, HD-015/HD-025	0.8	0.6	linear shape0.6X3.5 or cruciformPH1
M4	pin screws	HSB-006/HSB-012	1.2	0.9	linear shape 0.6X3.5 or cruciformPH1
	grounding screw	HE, HVE HD-040, HD-064, HD-080, HD-128, HEAV, HK-008/12, HWK-006/6, HK-006/6, HK-008/0, HK-006/12, HSB-006/HSB-012	1.2	0.9	linear shape 0.8X4.5 or cruciformPH2
M5	grounding screw	HWK-006/6 (power pin) HK-004/0, HK-004/2, HK-004/8, HK-012/2, HK-006/36	2	1.4	linear shape 0.8X4.5 or cruciformPH2
M6	pin screws	HK-004/0 (power pin) HK-004/2 (power pin) HK-004/8 (power pin)	1.2(1.5mm ²) 2(2.5mm ²) 3(4mm ² above)	0.9(1.5mm ²) 1.4(2.5mm ²) 2.2(4mm ² above)	linear shape0.8X4.5

Increasing tightening torque does not fundamentally improve contact resistance. Torque is calculated according to optimum mechanical, thermal and electrical performance. Exceeding recommended values by a large margin can damage wires or joints in extreme cases.

Crimp Termination

Well crimping has air tightness, corrosion resistance, and cold welding effect. The key to high quality crimping is to have good crimping parts and tools. Wires must be connected with suitable crimp contacts. The connector can have low contact resistance and corrosion resistance under the above conditions.

Advantages:

1. low cost
2. high efficiency
3. better anti-vibration
4. close to the cold welding effect

Stranded Wire Pull Out Force:

The main criterion for evaluating the quality of crimping is the holding force obtained by the wire at the terminal part. DIN EN 60352-2 specifies the pulling force of terminals in relation to the cross section of the conductor. When using WEIPU crimp tool for crimping and operating it in the correct way, the wire shall meet the standard pull out force.

Crimp Tool:

The crimp tool (manual or automatic) is designed to apply even pressure at the connection point so that the terminals and wires are symmetrically connected. The tool's slot positions terminals and wires in the correct position.

Note:

1. Do not put crimp contact into crimp tool before it's fully opened
2. Do not open the crimp tool during crimping

Tensile Strength of Crimped Joints (IEC 60352-2 Table 1)

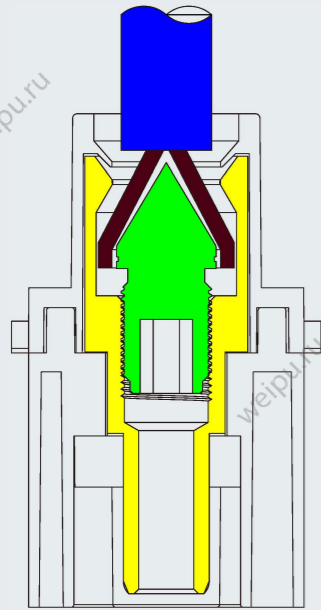
Wire Cross Section		Tensile strength(N)
mm ²	AWG ^a	
0.05	30	6
0.08	28	11
0.12	26	15
0.14		18
0.22	24	28
0.25		32
0.32	22	40
0.5	20	60
0.75		85
0.82	18	90
1		108
1.3	16	135
1.5		150
2.1	14	200
2.5		230
3.3	12	275
4		310
5.3	10	355
6		360
8.4	8	370
10		380

^a for reference only

Note:
For crimping tests, the same values are included in chapter 17 IEC 60760:1989 and Table 9 IEC 61210

Wire Size		Contact Diameter ø(mm)	Stripping Length		
mm ²	AWG ^a		HDD HD Module (10A)	HE HA HVE (16A)	HM
0.14~0.37	26~22	0.9	8	-	-
0.5	20	1.15	8	7.5	-
0.75	18	1.3	8	7.5	-
1	17	1.45	8	7.5	-
1.5	15	1.75	8	7.5	9
2.5	13	2.25	6	7.5	9
4	11	2.85	-	7.5	9.6
6	10	3.5	-	-	9.6
10	7	4.6	-	-	15

Axial Screw Termination



Advantages:

1. Less space required
2. Easy to operate
3. No special tools required

Axial Screw Termination Overview

The wire gauge mentioned in the catalog refers to the geometric wire gauge of the cable.

Background

According to DIN EN 60228, the wire gauge of cables and insulated wires is determined by the resistance value (Ω/km) and the maximum wire diameter. Minimum cable diameter is not specified! (e.g.: nominal wire gauge = 95 mm² → actual, geometric wire gauge = 89 mm²)

Suggestion

If a wire whose cross section differs greatly from the nominal wire gauge is used for axial screw termination, it must be double-checked.

Strain Relief

To ensure that the contact is protected from radial stress, the cable must be fixed at a sufficient distance from the terminal.

For details of strain relief design, see DIN VDE 0100-520:2003-06 (see table below).

Maximum Fixed Distance (mm)	Maximum Fixed Distance (mm)	
	Horizontal	Vertical
D ≤ 9	250	400
9 < D ≤ 15	300	400
15 < D ≤ 20	350	450
20 < D ≤ 40	400	550

Cable

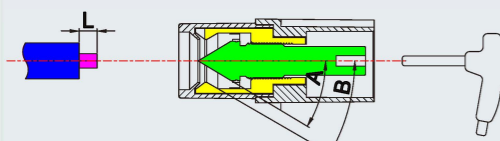
According to DIN EN 60228 Class 5 (see table: cable assembly conforms to DIN EN 60228), axial screw termination technology for wire is developed. Different cable assembly forms must be tested separately.

Assembly Remarks:

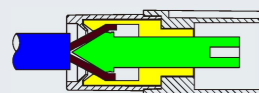
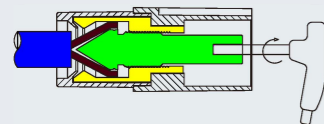
Before starting assembly, the user must ensure that the axial cone is completely tightened downward to fully open the termination cavity. After the cable insulation layer is stripped, the cable should not be twisted. The maximum cable insulation layer should not exceed the recommended size. Insert the wire completely into the termination cavity until the stranded copper wire reaches the bottom. Keep the wire in position while applying the recommended tightening torque.

Maintenance of Axial Screw Termination

To avoid damage to individual wires, tightening torque must be re-applied only once after the initial assembly in use.

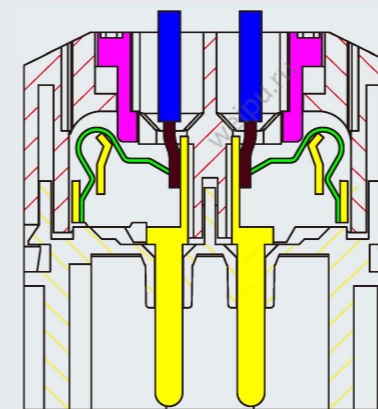


Note: $\angle A \geq \angle B$



Wire Size (mm ²)	DIN EN 60228 Class 2 Standard Stranded Wire	DIN EN 60228 Class 5 Fine Stranded Wire	DIN EN 60228 Class 6 Extremely Fine Stranded Wire			
0.5	7x0.30	16x0.20	28x0.15	64x0.10	131x0.07	256x0.05
0.75	7x0.37	24x0.20	42x0.15	96x0.10	195x0.07	384x0.05
1	7x0.43	32x0.20	56x0.15	128x0.10	260x0.07	512x0.05
1.5	7x0.52	30x0.25	84x0.15	192x0.10	392x0.07	768x0.05
2.5	7x0.67	50x0.25	140x0.15	320x0.10	651x0.07	128x0.05
4	7x0.85	56x0.30	224x0.15	512x0.10	1040x0.07	
6	7x1.05	84x0.30	192x0.20	768x0.10	1560x0.07	
10	7x1.35	80x0.40	320x0.20	1280x0.10	2600x0.07	
16	7x1.70	128x0.40	512x0.20	2048x0.10		
25	7x2.13	200x0.40	800x0.20	3200x0.10		
35	7x2.52	280x0.40	1120x0.20			
50	19x2.17	400x0.40	705x0.30			
70	19x2.52	356x0.50	990x0.30			
95	19x2.17	485x0.50	1340x0.30			
120	37x2.03	614x0.50	1690x0.30			
150	37x2.27	765x0.50	2123x0.30			
185	37x2.52	944x0.50	1470x0.40			
240	61x2.24	1225x0.50	1905x0.40			

Cage Clamp Termination

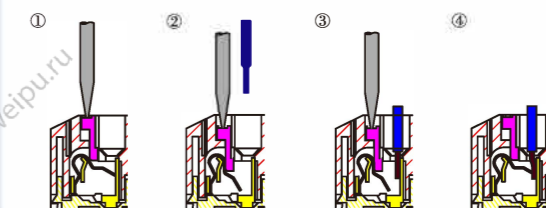


Advantages:

1. The preparation requirements before wire crimping are not strict and no special installation tools are required, which can greatly reduce the installation cost
2. Applicable to all standards and single stranded wire with a cross-section of 0.14~2.5mm²
3. Easy cable assembly
4. No special requirements for wires
5. The larger the wire, the greater the compression force
6. Anti-vibration design for the terminal
7. Low contact resistance

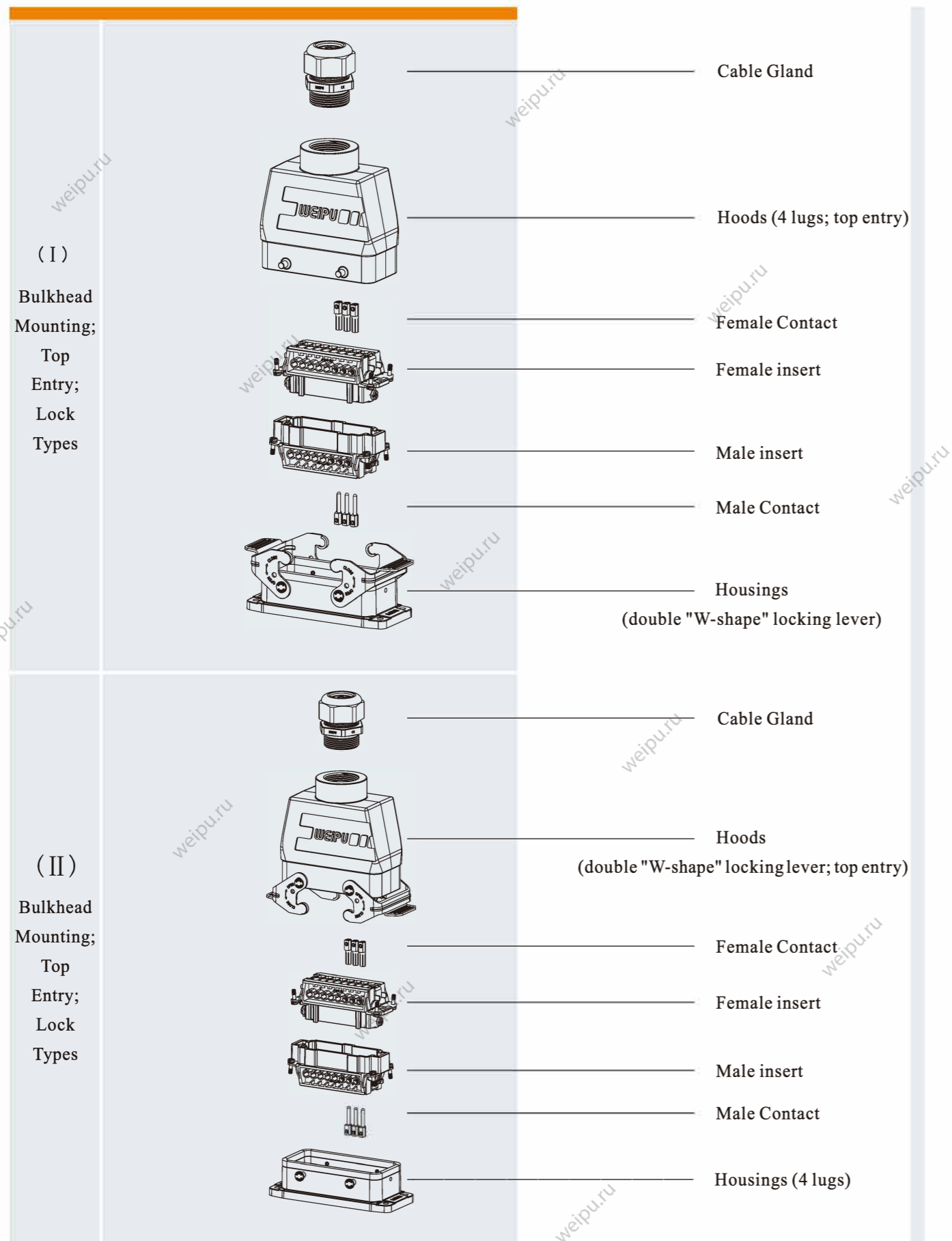
Steps

Screwdriver size: 3.5×0.5mm

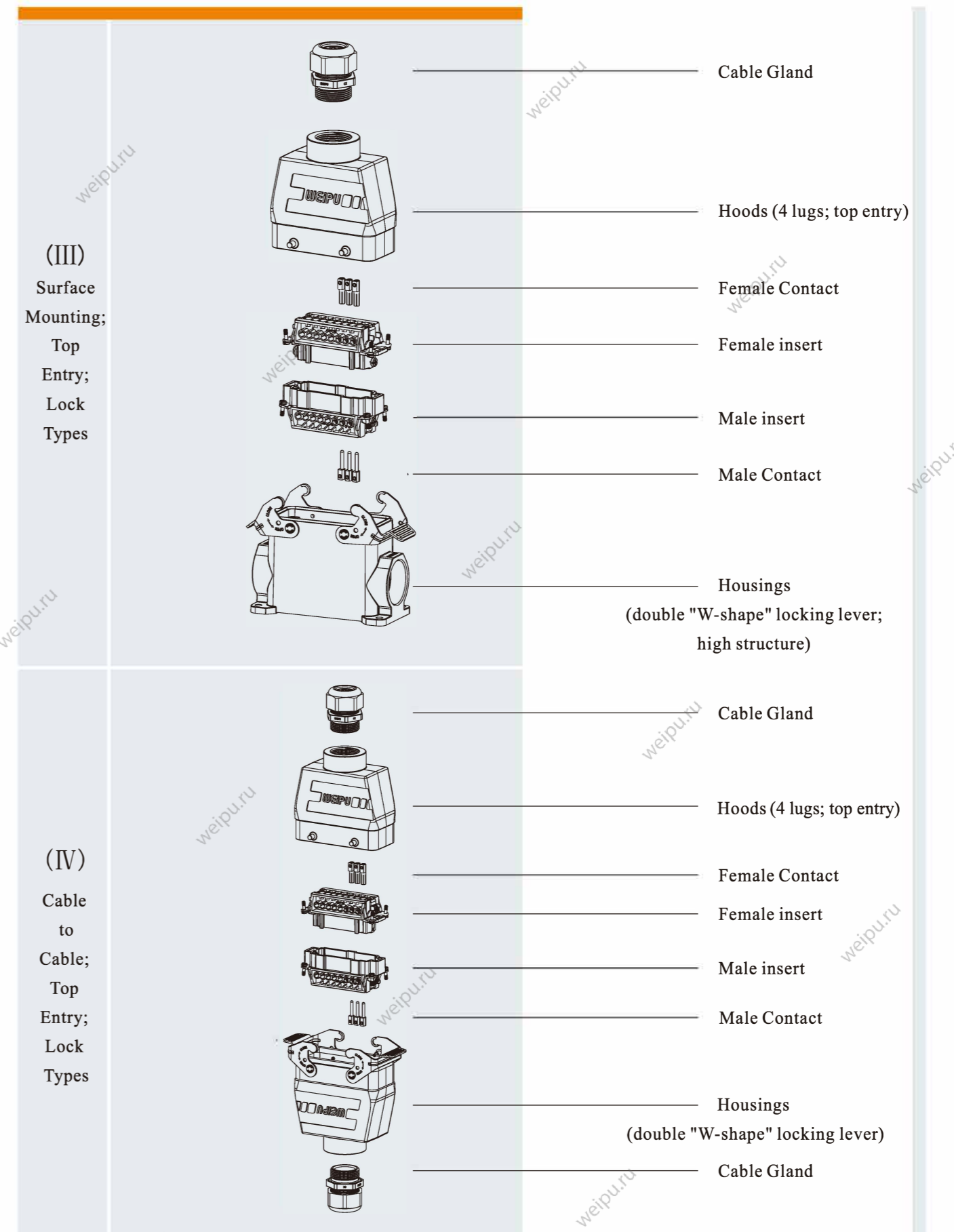


Insert	Max Wire Gauge		Stripping Length
	mm ²	AWG ^a	mm
HE Normal Insert HVE Normal Insert	0.14~2.5	26~14	7~9

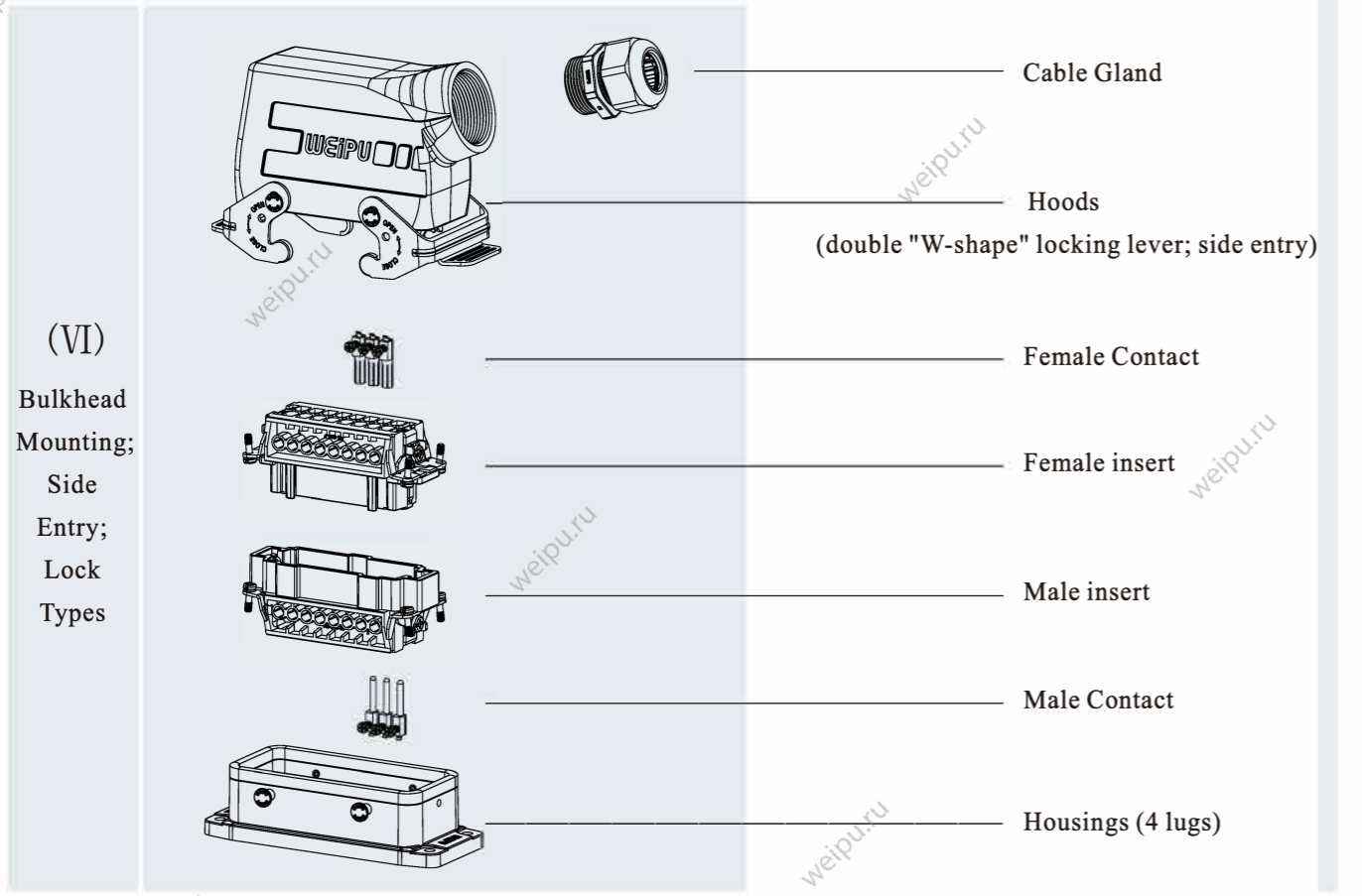
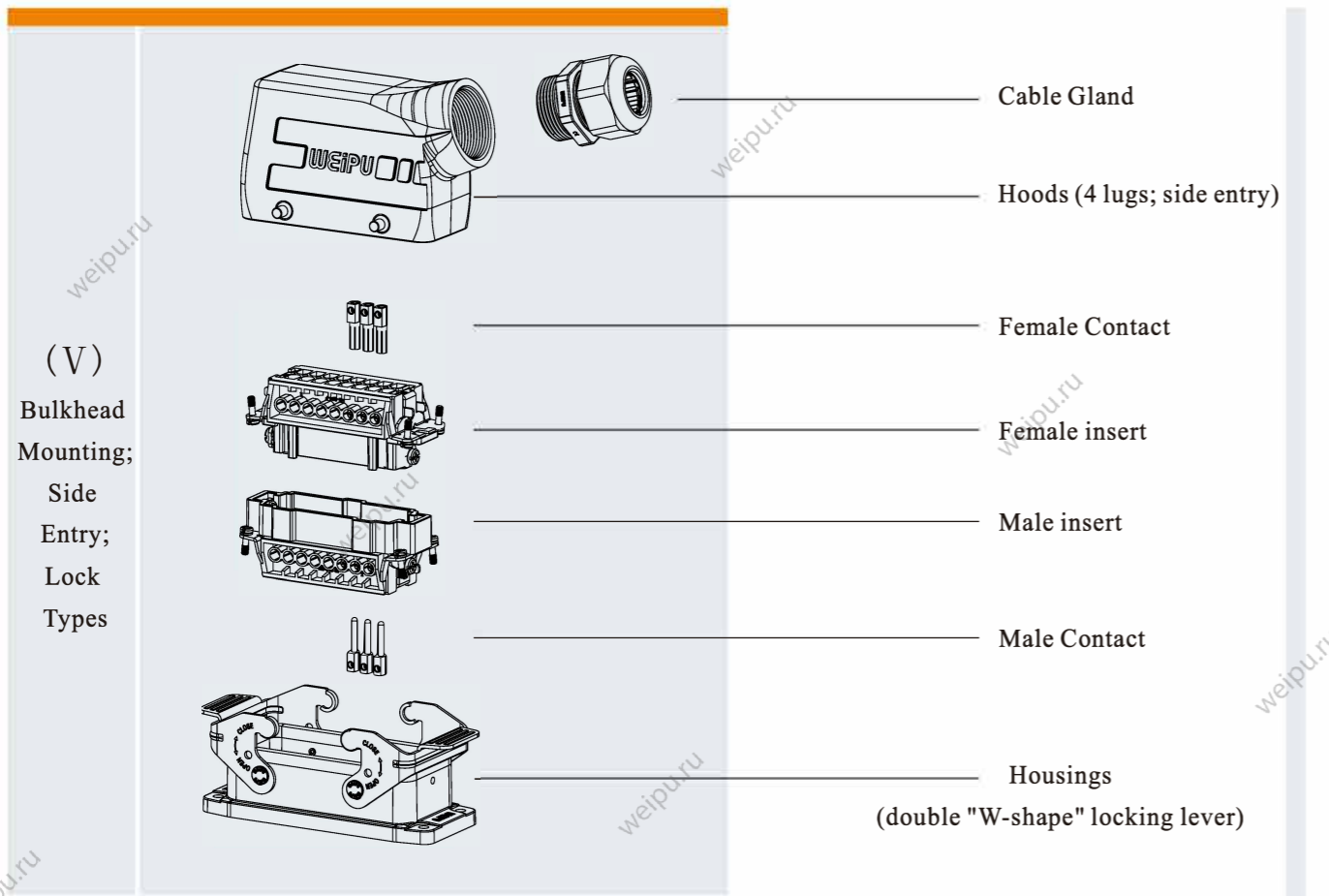
Assembly Structure



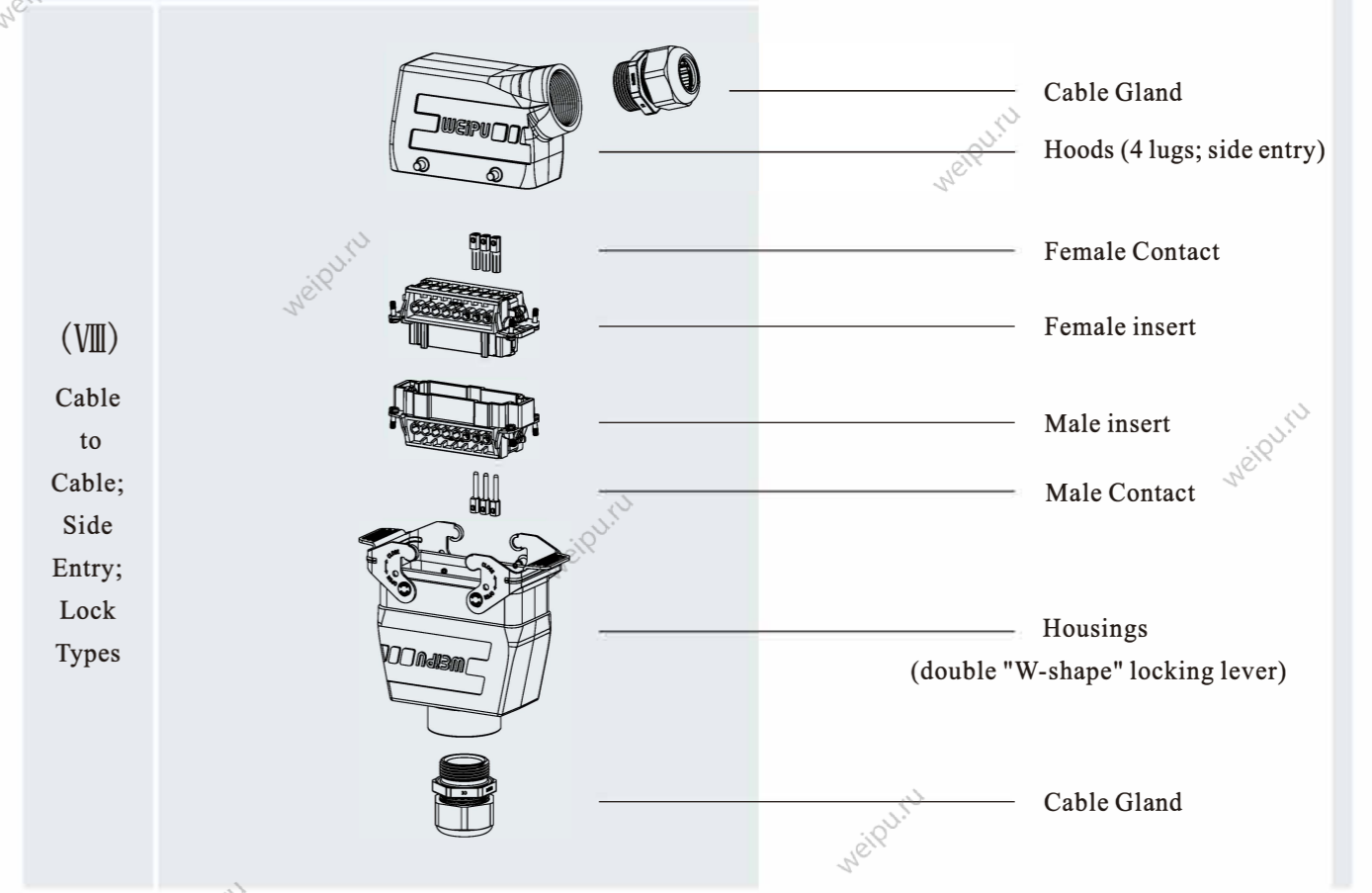
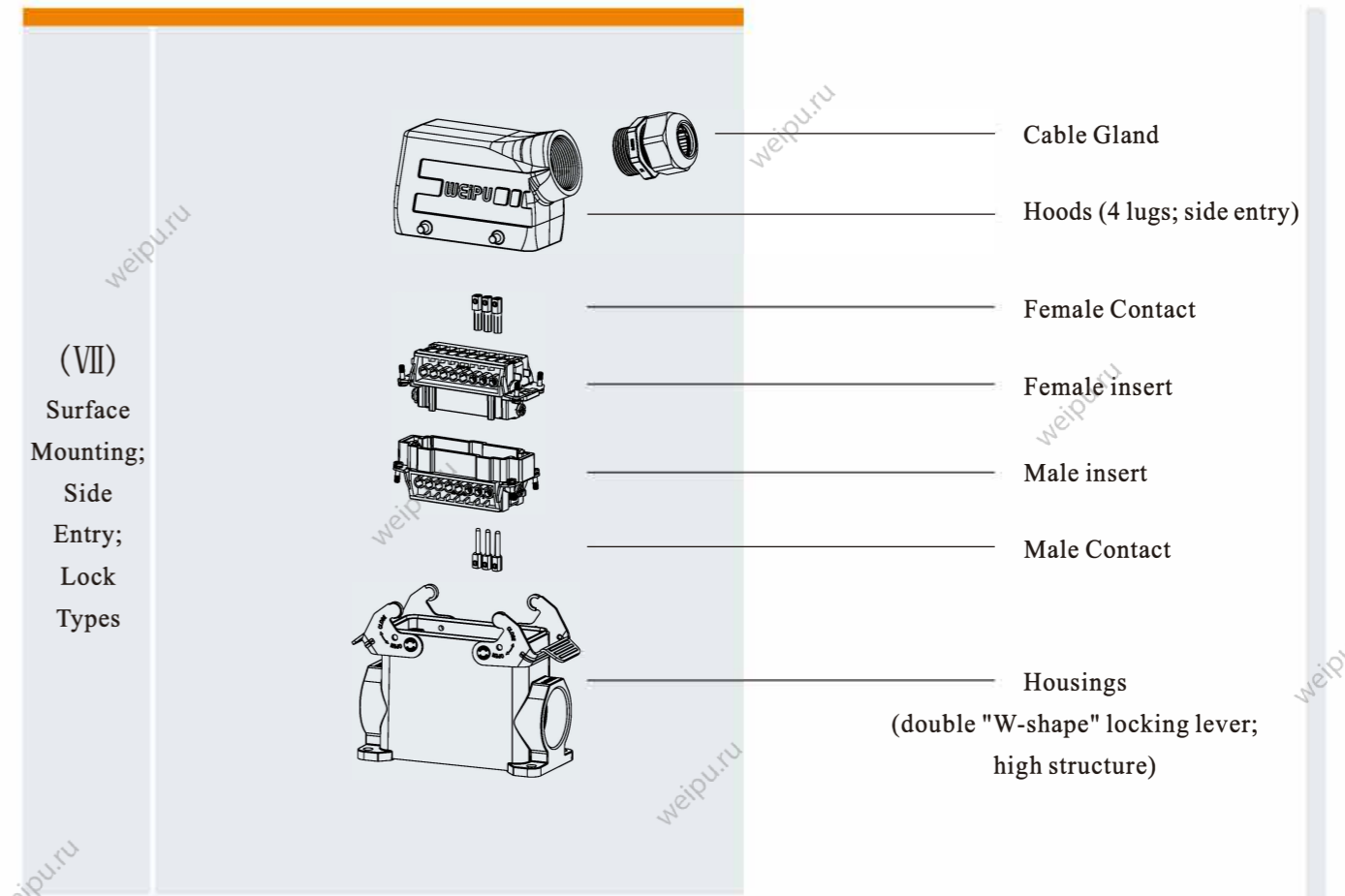
Assembly Structure



Assembly Structure



Assembly Structure



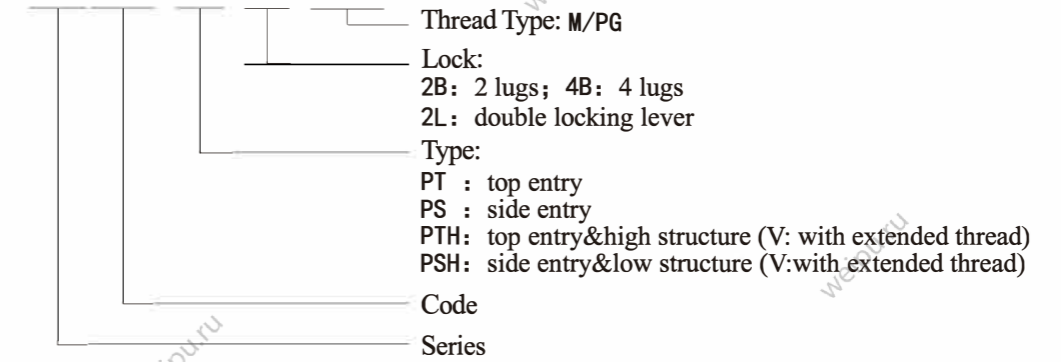


Больше информации: weipu.ru

Hoods/Housings Description

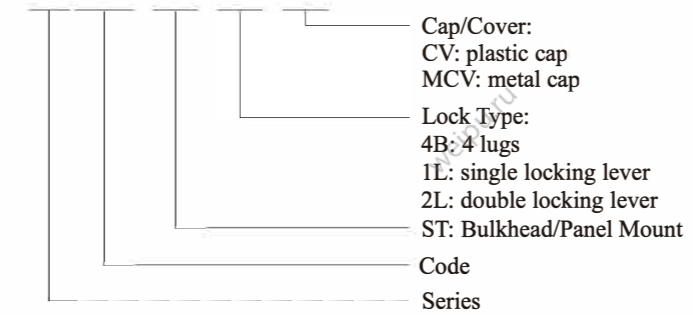
Hoods

HA16B-PS-2B-M25

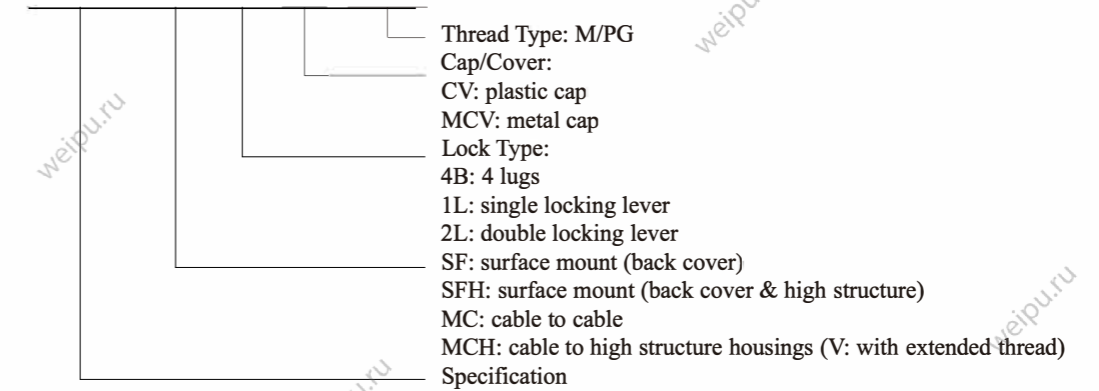


Housings

HA16B-ST-4B-CV

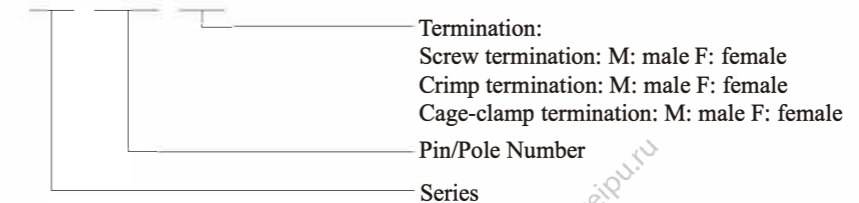


HA16B-SF-4B-CV-PG21



Insert

HA-016-MC



Standard

Overview

Connector selection is not only about function, number of contacts, rated current and rated voltage, but also where the connector will be used and environmental conditions. This means that different current or different voltage may apply to the same connector, but these should comply with the relevant installation conditions and standards.

Overvoltage Category

The following categories comply with IEC 60664-1

Equipment supplied directly from the low-voltage grid is subject to the concept of the overvoltage category.


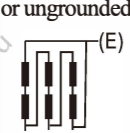


The overvoltage category has a probabilistic meaning and does not refer to the physical decay of transient overvoltages in downstream equipment.

Similar concepts can be applied to devices that connect to other systems, such as telecommunications and data systems.

Each product's Standards Technical Committee shall determine the overvoltage category on the basis of the following basic description of the overvoltage category:

- Overvoltage Category I: The equipment connected to circuits that limits transient overvoltages to relatively low levels;
 - Note: remote control, small power signal circuit electrical appliances
- Overvoltage Category II: The energy consuming equipment powered by fixed distribution units;
 - Note: appliances, portable tools and other household and similar loads
- Overvoltage Category III: The equipment in fixed power distribution installations, and those whose reliability and suitability must meet special requirements
 - Note: switchgear installed in fixed power distribution units and industrial equipment permanently connected to fixed power distribution units
- Overvoltage Category IV: The equipment used on the power side of a power distribution unit
 - Note: measuring instrument and pre-stage overcurrent protection equipment.

Rated Pulse Voltage (IEC 60664-1 Table B2)

Conductor-neutral conductor voltage derived from the total nominal AC voltage or nominal DC voltage (less or equal to) V	Nominal voltages currently used globally				Equipment rated impulse voltage ¹⁾ V			
	Three-phase four-wire system neutral grounded 	Three-phase three-wire system grounded or ungrounded 	Single-phase two-wire system AC or DC 	Single-phase three-wire system AC or DC 	Overvoltage category			
					I	II	III	IV
50			12.5 24 25 30 42 48	30~60	330	500	800	1500
100	66/115	66	60		500	800	1500	2500
100	120/208* 127/220	115 120 127	100** 110,120	100~200** 110~220 120~240	800	1500	2500	4000
300	220/380 230/400 240/415 260/440 270/480	200**,220, 230,240, 260,277	220	220~440	1500	2500	4000	6000
600	347/600 380/660 400/690 417/720	347, 380, 400, 415, 440, 480, 500	480	480~960	2500	4000	6000	8000

	480/830	577, 600						
1000		600 690, 720 830, 1000	1000		4000	6000	8000	12000
<p>* Applied in the U.S. and Canada ** Applied in Japan</p>								

Pollution Degree

Overview

The micro environment determines the influence of pollution on insulation, but the macro environment must be taken into account when considering the micro environment.

Effective use of enclosures, enclosed or airtight measures can reduce contamination of insulation. These pollution reduction measures may be ineffective when the equipment is contaminated by condensation or by itself during normal operation. Solid particles, dust, and water can completely bridge small electrical gaps, so minimum electrical gaps should be specified wherever contamination can exist in the microscopic environment.

Note 1: Contamination will change to conductive contamination in humid conditions. Pollution caused by polluted water, soot, metal dust, carbon dust is a common conductive pollution.

Note 2: Conductive pollution from ionized gases or metal deposits occurs only in certain circumstances, such as arc suppression chambers in switchgear and control equipment, and is not covered in this section.

In order to calculate creepage distance and electrical clearance, the pollution level of micro environment is stipulated as the following 4 levels:

— Pollution level 1

Pollution free or only dry, non-conductive pollution, which has no effect;

— Pollution level 2

Generally, only non-conductive contamination occurs, although occasional transient conductive contamination must be expected from condensation.

— Pollution level 3

There is conductive pollution or dry non-conductive pollution becomes conductive pollution due to expected condensation;

★ WEIPU heavy-duty connectors are designed according to this pollution level.

— Pollution level 4

Persistent conductive pollution, such as the pollution that caused by conductive dust or rain or other humid conditions.

Special rules

The lower level pollution connector is allowed to be used under certain conditions. Based on DIN EN61984, section 6.19.2.3:

- For connectors with IP54 or above, the insulating parts in the housing can be graded according to the lower pollution level.
- It is also suitable for cartridge connectors where the connector housing is used to ensure tightness, and for connectors that are separated only during testing and maintenance.

Requirements:

1. Connectors with at least IP54 rating according to IEC 60529
2. Installed in the housing and disconnected only for testing and maintenance
3. Installed in the shell and protected by a cover when disconnected, so that its protection level is at least IP54
4. In a control box with a protection level of at least IP54

Note: The above conditions cannot apply if the connector is exposed to the industrial atmosphere in the disconnected state

Typical applications where pollution level 2 is used:

A connector that serves the drive motor and is disconnected only to replace the damaged motor, even if the equipment or system requires a pollution level 3.

- Connectors for modular design machines, for transport purposes only, and can be quickly installed and reliably debugged. A protective cover or equivalent package must be provided during transportation to ensure that the connector is not contaminated.
- Connector that located in IP54 switch cabinet, its IP54 housing can be ignored.

Other Terminology

Electrical Clearance

The shortest distance in air between two conductive parts.

Electrical clearances withstanding transient overvoltages (IEC 60664-1 Table F.2)

Required impulse withstand voltage ¹⁾⁵⁾ kV	Minimum electrical clearance in the atmosphere from sea level to 2000m above sea level					
	A non-uniform electric field			B uniform electric field		
	Pollution Degree ⁶⁾			Pollution Degree ⁶⁾		
	1 mm	2 mm	3 mm	1 mm	2 mm	3 mm
0.33 ²⁾	0.01	0.2 ³⁾⁴⁾	0.8 ⁴⁾	0.01	0.2 ³⁾⁴⁾	0.8 ⁴⁾
0.40	0.02			0.02		
0.50 ²⁾	0.04			0.04		
0.60	0.06			0.06		
0.80 ²⁾	0.10			0.10		
1.0	0.15			0.15		
1.2	0.25			0.25		
1.5 ²⁾	0.5	0.5	0.3	0.3		
2.0	1.0	1.0	1.0	0.45	0.45	
2.5 ²⁾	1.5	1.5	1.5	0.60	0.60	
3.0	2.0	2.0	2.0	0.80	0.80	
4.0 ²⁾	3.0	3.0	3.0	1.2	1.2	1.2
5.0	4.0	4.0	4.0	1.5	1.5	1.5
6.0 ²⁾	5.5	5.5	5.5	2.0	2.0	2.0
8.0 ²⁾	8.0	8.0	8.0	3.0	3.0	3.0
10.0	11	11	11	3.5	3.5	3.5
12.0 ²⁾	14	14	14	4.5	4.5	4.5
15	18	18	18	5.5	5.5	5.5
20	25	25	25	8.0	8.0	8.0
25	33	33	33	10	10	10
30	40	40	40	12.5	12.5	12.5
40	60	60	60	17	17	17
50	75	75	75	22	22	22
60	90	90	90	27	27	27
80	120	120	120	35	35	35
100	170	170	170	45	45	45

1) For this voltage

—The maximum impulse voltage expected to occur at both ends of the electrical gap for functional insulation;

—The basic insulation that directly withstands the instantaneous overvoltage of the low-voltage power grid refers to the rated impulse voltage of the equipment;

—For other basic insulation, the maximum impulse voltage that may occur in the circuit.

Reinforced insulation

2) Preferred value.

3) Printed circuit materials can be used for pollution level 1, but its value should not be less than 0.04mm.

4) The minimum electrical gaps of pollution levels 2 and 3 given in the table are proposed on the basis of the reduced tolerance characteristics of relevant creepage distance.

5) Interpolation method is allowed for components or lines in equipment with impulse voltage requirements. However, the standard approach should be to use a specified set of preferences.

6) Except for the minimum electrical clearance of 1.6mm, the electrical clearance of pollution grade 4 is the same as that of pollution grade 3.

Creepage Distance

The shortest distance between two conductive parts along the surface of a solid insulating material.

IEC 60664-1 Table F.3a. Single-phase (three-wire or two-wire) AC or DC systems

The nominal voltage of a power supply system * V	Rationalized voltages in Table F.4	
	Wire-to-Wire Insulation ¹⁾	Wire-to-Wire Insulation ¹⁾
	All systems V	Three-wire neutral grounding system V
12.5	12.5	
24		
25	25	
30	32	
42		
48		
50**	50	
60	63	
30~60	63	32
100	100	
110	125	
120		
150**	160	
200	200	
100~200	200	100
220	250	
110~220		
120~240	250	125
300**	320	
220~440	500	250
600**	630	
480~960	1 000	500
1 000**	1 000	

1) The wire to ground insulation level of an ungrounded or impedance grounded system is equal to the wire to wire insulation level, since the operating voltage of any wire to ground of the system may actually approach the full wire to wire voltage. This is because the actual voltage from wire to ground is determined by the insulation resistance and capacitive reactance of each wire to ground, so a wire with a low (but permitted) insulation resistance can be considered grounded in effect, and the other wire to ground voltage can be raised to the full voltage from wire to wire.

* See section 4.3.2 of IEC 60664-1 for the relation to rated voltage.

** These values correspond to those listed in TABLE F.1 of IEC 60664-1.

IEC 60664-1 Table F.3B Three-phase (four-wire or three-wire) AC systems

The Nominal Voltage of a Power Supply System* V	Rationalized Voltages in Table F.4		
	Wire-to-wire Insulation	Wire-to-ground Insulation	
	All Systems V	Three Phase Four Wire System Neutral Grounded ²⁾ V	Three Phase Three Wire System Ungrounded ¹⁾ or (power supply) Two Wire Grounded V
60	63	32	63
110			
120	125	80	125
127			
150**	160	—	160
200	200		200
208	200	125	200
220			
230	250	160	250
240			
300**	320	—	320
380			
400	400	250	400
415			
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	1 000	630	1 000
1 000**	1 000	—	1 000

1) The wire to ground insulation level of an ungrounded or impedance grounded system is equal to the wire to wire insulation level, since the operating voltage of any wire to ground of the system may actually approach the full wire to wire voltage. This is because the actual voltage from wire to ground is determined by the insulation resistance and capacitive reactance of each wire to ground, so a wire with a low (but permitted) insulation resistance can be considered grounded in effect, and the other wire to ground voltage can be raised to the full voltage from wire to wire.

2) If the equipment can be used for both grounded and ungrounded, three-phase three-wire and three-phase four-wire power supply, only the data in the three-phase three-wire system will be used.

* The relationship with rated voltage is described in IEC60664-1 section 4.3.2.

** These values correspond to those listed in TABLE F.1 of IEC60664-1.

Table F.4 Avoiding creepage distance caused by electric trace fault

Voltage RMS ¹⁾ V	Minimum Creepage Distance								
	Printed Circuit Material		Pollution Degree						
			1			2		3	
	Material /Group mm	Material /Group, Except IIIb mm	Material /Group mm	Material/Group			material/Group		
			I mm	II mm	III mm	I mm	II mm	III ²⁾ mm	
10	0.025	0.040	0.080	0.400	0.400	0.400	1.000	1.000	1.000
12.5	0.025	0.040	0.090	0.420	0.420	0.420	1.050	1.050	1.050
16	0.025	0.040	0.100	0.450	0.450	0.450	1.100	1.100	1.100
20	0.025	0.040	0.110	0.480	0.480	0.480	1.200	1.200	1.200
25	0.025	0.040	0.125	0.500	0.500	0.500	1.250	1.250	1.250
32	0.025	0.040	0.14	0.53	0.53	0.53	1.30	1.30	1.30
40	0.025	0.040	0.16	0.56	0.80	1.10	1.40	1.60	1.80
50	0.025	0.040	0.18	0.60	0.85	1.2	1.50	1.70	1.90
63	0.04	0.063	0.20	0.63	0.90	1.25	1.60	1.80	2.00
80	0.063	0.100	0.22	0.67	0.95	1.30	1.70	1.90	2.10
100	0.100	0.160	0.25	0.71	1.00	1.40	1.80	2.00	2.20
125	0.160	0.250	0.28	0.75	1.05	1.50	1.90	2.10	2.40
160	0.250	0.400	0.32	0.80	1.10	1.60	2.00	2.20	2.50
200	0.400	0.630	0.42	1.00	1.40	2.00	2.50	2.80	3.20
250	0.560	1.000	0.56	1.25	1.80	2.50	3.20	3.60	4.00
320	0.750	1.60	0.75	1.6	2.20	3.20	4.00	4.50	5.00
400	1.0	2.0	1.0	2.0	2.8	4.0	5.0	5.6	6.3
500	1.3	2.5	1.3	2.5	3.6	5.0	6.3	7.1	8.0 (7.9) ⁴⁾
630	1.8	3.2	1.8	3.2	4.5	6.3	8.0 (7.9) ⁴⁾	9.0 (8.4) ⁴⁾	10.0 (9.0) ⁴⁾
800	2.4	4.0	2.4	4.0	5.6	8.0	10.0 (9.0) ⁴⁾	11.0 (9.6) ⁴⁾	12.5 (10.2) ⁴⁾
1000	3.2	5.0	3.2	5.0	7.1	10.0	12.5 (10.2) ⁴⁾	14.0 (11.2) ⁴⁾	16.0 (12.8) ⁴⁾
1250			4.2	6.3	9.0	12.5	16.0 (12.8) ⁴⁾	18.0 (14.4) ⁴⁾	20.0 (16.0) ⁴⁾
1600			5.6	8.0	11.0	16.0	20.0 (16.0) ⁴⁾	22.0 (17.6) ⁴⁾	25.0 (20.0) ⁴⁾
2000			7.5	10.0	14.0	20.0	25.0 (20.0) ⁴⁾	28.0 (22.4) ⁴⁾	32.0 (25.0) ⁴⁾
2500			10.0	12.5	18.0	25.0	32.0 (25.6) ⁴⁾	36.0 (28.8) ⁴⁾	40.0 (32.0) ⁴⁾

IEC 60664-1 Table F.4

Voltage RMS ¹⁾ V	Minimum Creepage Distance								
	Printed Circuit Material		Pollution Degree						
	1	2	1	2			3		
	Material /Group mm	Material /Group, Except IIIb mm	Material /Group, Except IIIb mm	Material/Group			Material/Group		
				I mm	II mm	III mm	I mm	II mm	III ²⁾ mm
3200			12.5	16.0	22.0	32.0	40.0 (32.0) ⁴⁾	45.0 (36.0) ⁴⁾	50.0 (40.0) ⁴⁾
4000			16.0	20.0	2&0	40.0	50.0 (40.0) ⁴⁾	56.0 (44.8) ⁴⁾	63.0 (50.4) ⁴⁾
5000			20.0	25.0	36.0	50.0	63.0 (50.4) ⁴⁾	71.0 (56.8) ⁴⁾	80.0 (64.0) ⁴⁾
6300			25.0	32.0	45.0	63.0	80.0 (64.4) ⁴⁾	90.0 (72.2) ⁴⁾	100.0 (80.0) ⁴⁾
8000			32.0	40.0	56.0	80.0	100.0 (80.0) ⁴⁾	110.0 (88.0) ⁴⁾	125.0 (100.0) ⁴⁾
10000			40.0	50.0	71.0	100.0	125.0 (100.0) ⁴⁾	140.0 (112.0) ⁴⁾	160.0 (128.0) ⁴⁾
12500			50.0 ³⁾	63.0 ³⁾	90.0 ³⁾	125.0 ³⁾			
16000			63.0 ³⁾	80.0 ³⁾	110.0 ³⁾	160.0 ³⁾			
20000			80.0 ³⁾	100.0 ³⁾	140.0 ³⁾	200.0 ³⁾			
25000			100.0 ³⁾	125.0 ³⁾	180.0 ³⁾	250.0 ³⁾			
32000			125.0 ³⁾	160.0 ³⁾	220.0 ³⁾	320.0 ³⁾			
40000			160.0 ³⁾	200.0 ³⁾	280.0 ³⁾	400.0 ³⁾			
50000			200.0 ³⁾	250.0 ³⁾	360.0 ³⁾	500.0 ³⁾			
63000			250.0 ³⁾	320.0 ³⁾	450.0 ³⁾	600.0 ³⁾			

1) For this voltage

The functional insulation is the working voltage;

— The basic insulation and additional insulation of the circuit directly supplied by the grid (see IEC60664-14.3.2.2.1) is the rationalized voltage or rated insulation voltage converted by the rated voltage of the equipment through table F.3a or F.3b;

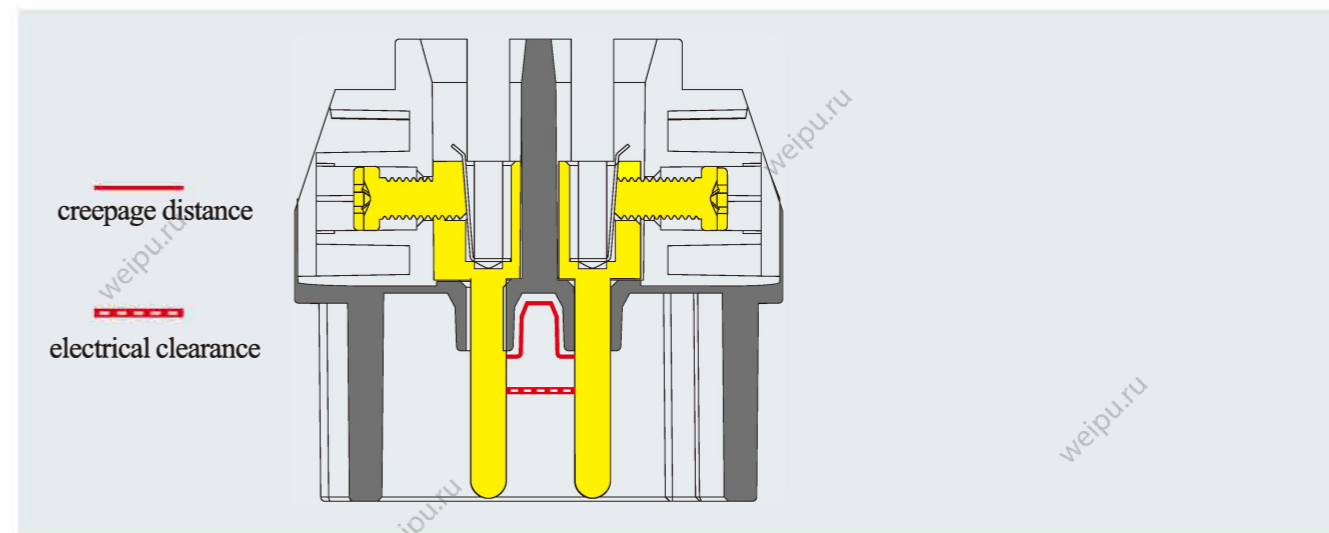
— For systems not directly supplied by the grid, the basic insulation and additional insulation of equipment and internal circuits (see IEC 60664-1 4.3.2.2) is the highest RMS voltage that may occur in the system, equipment or internal circuits under the most onerous combination of operating conditions within the rated range of equipment and when the rated voltage is applied externally.

2) Material/Group IIIb is not recommended for pollution level 3 and voltage over 630V products.

3) Based on provisional data obtained by extrapolation, each Product Standards Technical Committee may use its own data if it has other empirical data.

4) The values in brackets are suitable for the reduced creepage distance when the reinforcement is used (see IEC60664-1 5.2.5).

Note: The measurement deviation is not necessary to be maintained at the same high degree of accuracy as creepage distance in this table.



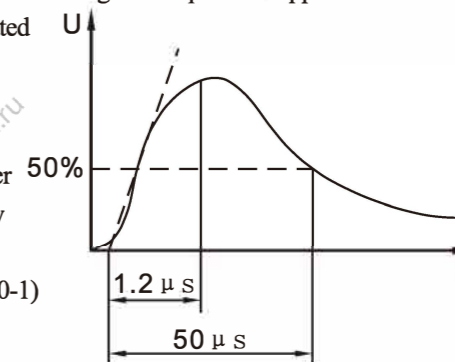
Working Voltage

With fixed current, preferably at ambient temperature of 40°C, the connector can make permanent (uninterrupted) connections simultaneously through all contacts of the maximum conductor without exceeding the temperature upper limit.

The dependence of rated current on ambient temperature is illustrated in the corresponding derating diagram.

Rated Impulse Voltage

The impulse withstand voltage value specified by the manufacturer for the equipment or its components to characterize the specified ability of its insulation to withstand transient overvoltages. (Test waveform voltage is 1.2/50 microseconds according to IEC 60060-1)



Instantaneous Overvoltage

Those overvoltages that appear within a few milliseconds or less and they're oscillating or non-oscillating, usually highly damped.

Power Frequency Withstand Voltage

Apply a voltage on the sample for 1 minute under specified test conditions that will not cause breakdown and/or flashover of the sample.

Test voltage (DIN EN61984 table 8)

Rated Pulse Voltage (U_{imp}) kV	Test Voltage of Impulse Withstand Voltage kV(1.2 μs / 50 μs)		Withstand Voltage RMS kV (50 /60Hz)
	Altitude 2000m	Sea Level	
0.5	0.5	0.55	0.37
0.8	0.8	0.91	0.50
1.5	1.5	1.75	0.84
2.5	2.5	2.95	1.39
4	4	4.8	2.21
6	6	7.3	3.31
8	8	9.8	4.26
12	12	14.8	6.60

CTI Values for Classification of Insulating Materials

The performance of insulating materials is very complex under different kinds of pollution and voltage. Many materials may exhibit two or even three of these properties under various conditions. There is virtually no direct relationship between insulating materials and material groups. However, experience and tests have shown that the arrangement of insulating materials with higher relative properties is also approximately the same as that of the corresponding class according to the comparative electrocrease index (CTI).

IP Rating

In the actual use of the connector, the dust and water vapor in the surrounding environment will affect the normal use of the connector, so IEC classifies electrical appliances according to their dust-proof and moisture-proof characteristics. The IP protection level is composed of two numbers. The first number represents the level of the electrical appliance being dust-proof and preventing the intrusion of external objects (external objects referred to here include tools, and human fingers cannot touch the live parts of the electrical appliance to avoid electric shock), the second number indicates the degree of airtightness of the electrical appliance against moisture and water immersion. The larger the number, the higher the protection level.

Number 1	Solids	Number 2	Liquids
IP 0	No Protection	IP 0	No Protection
1	Protected against solid objects over 50mm, e.g. accidental touch by hands	1	Protected against vertically falling drops of water e.g. condensation
2	Protected against solid objects over 12.5mm, e.g. fingers	2	Protected against direct sprays of water up to 15° from the vertical
3	Protected against solid objects over 2.5mm, e.g. tools & wires	3	Protected against direct sprays of water up to 60° from the vertical
4	Protected against solid objects over 1mm, e.g. wires, nails etc.	4	Protected against water splashed from all directions, limited ingress permitted
5	Protected against dust limited ingress, not harmful deposits	5	Protected against low pressure jets of water for at least 3 minutes
6	Totally protected against dust	6	Protected against strong jets of water for at least 3 minutes
		7	Protected against the effects of temporary immersion in 1m water
		8	Protected against the effects of long periods of immersion in water over 1m
		9K	Protected against long periods of immersion under pressure

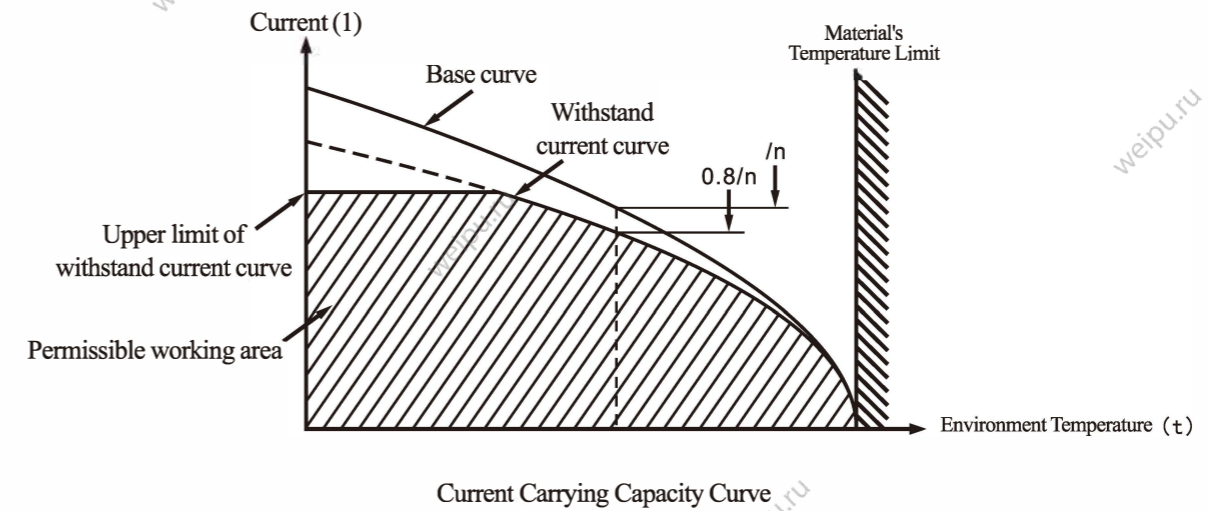
Material Group

- Insulating materials are divided into four groups according to their CTI values, and the specific groups are as follows:
- Group I: $600 \leq CTI$;
- Group II: $400 \leq CTI < 600$;
- Group IIIa: $175 \leq CTI < 400$;
- Group IIIb: $100 \leq CTI < 175$
- Insulation materials can use Tracking Resistance Index (PTI) to indicate tracking resistance. A certain insulating material belongs to one of the above four insulating material groups

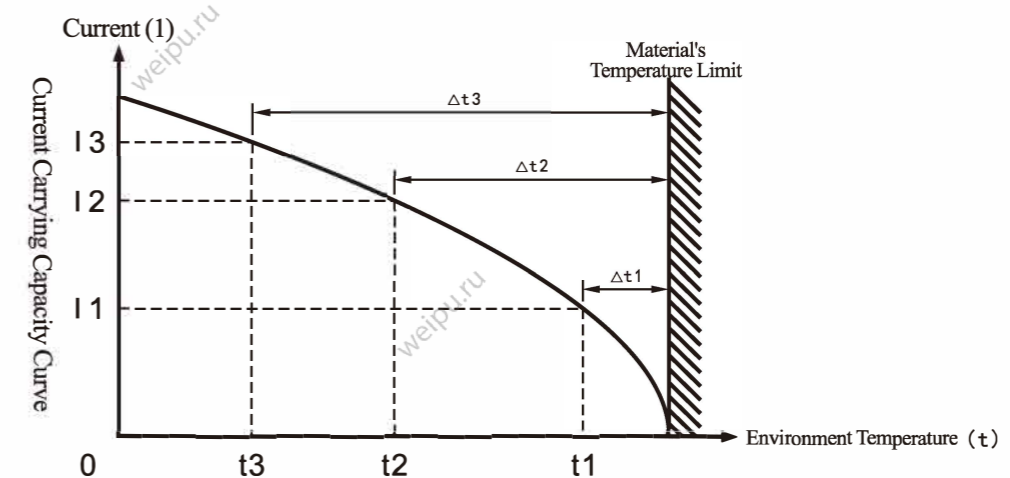
Current-Carrying Capacity

Current carrying capacity is determined according to the tests carried out in DIN EN 60512-5-2. The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. There is a limit temperature for these components. According to DIN EN 61984, the sum of ambient temperature and connector temperature rise must not exceed the limit temperature. Limit temperature is valid for the entire connector, including connector and housing.

The relationship between current, temperature rise (loss of contact resistance), and connector ambient temperature is shown as a curve. In a linear coordinate system, the current is located on a vertical line (ordinate), and the ambient temperature is located on a horizontal line (abscissa), above which the temperature limit ends.

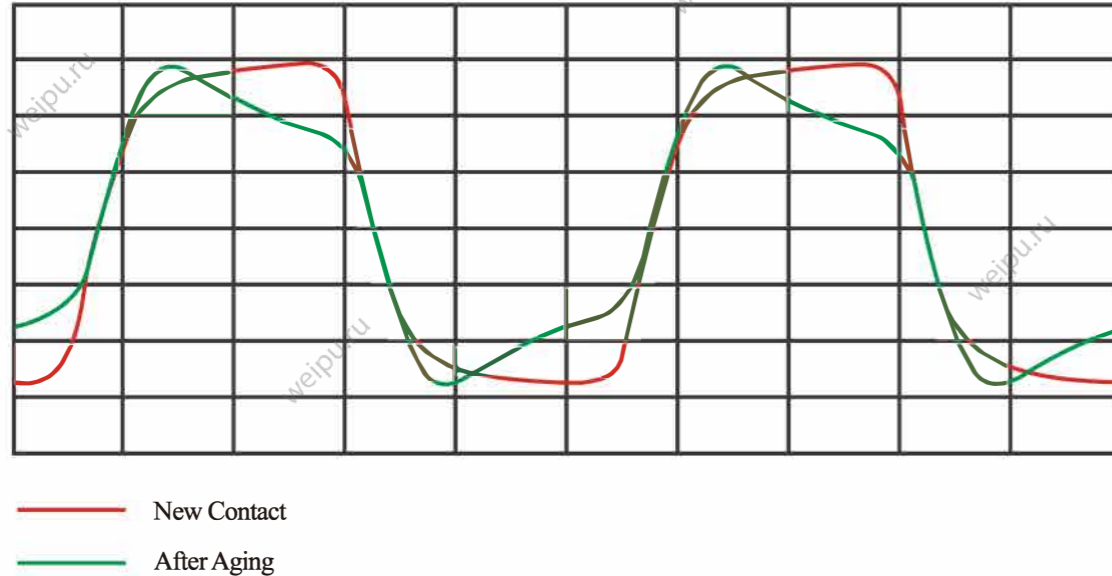


Electronic devices themselves have a maximum allowable resistance value. Since it is not possible to select this maximum allowable resistance for actual measurement, the base curve obtained above must be modified. According to experience, and considering the influence of the maximum allowable resistance and measurement error, if the current intensity is reduced to 80%, it can meet the needs of the actual situation. The resulting curve is called the tolerable current curve.



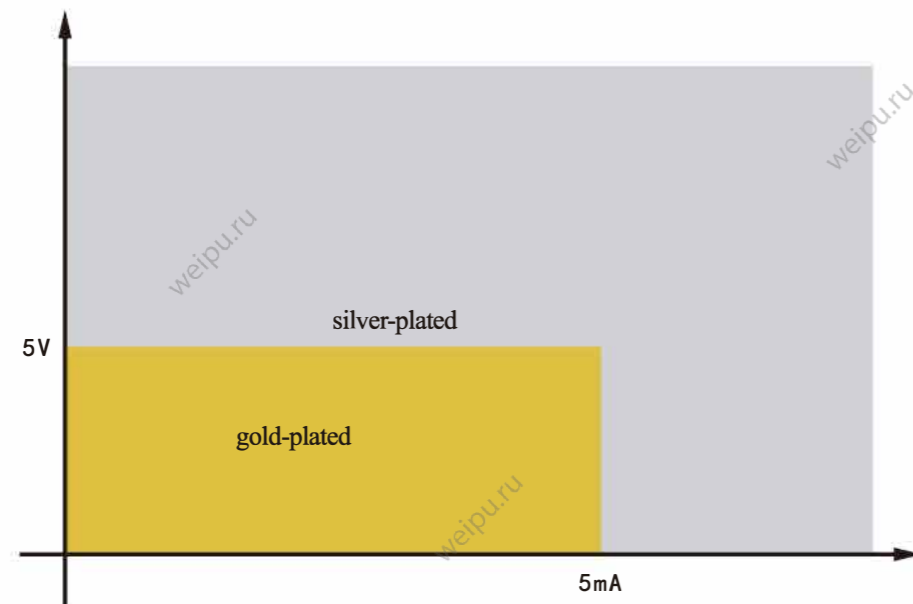
Low Current and Low Voltage

WEIPU connector pin is plated with silver, which has excellent electrical conductivity. Over time, during the connector's life cycle, the interaction of the connector and the sulfide in the air will produce a black oxide layer on the silver plated surface, which will increase the contact resistance of the connector and affect its ability to transmit current. The figure below illustrates a comparison of an artificially aged contact representing a 20-year life span with a new contact.



Gold-plated pins are recommended for particularly demanding transient signals and signal transmission

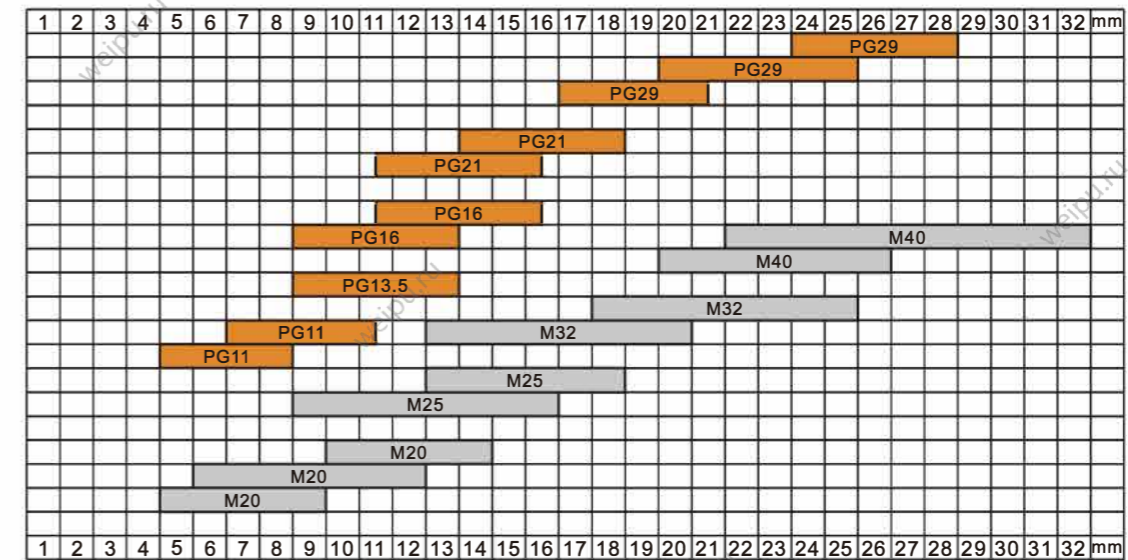
Choice of silver-plated or gold-plated pins



Metric Thread

Metric threads are specified in the international DIN EN 50262 standard, which describes the metric series M12 to M63. Thread dimensions are given by the product type description. For example, M20 refers to a thread diameter of 20mm. For easy identification, metric threaded housing and housing are marked with M.

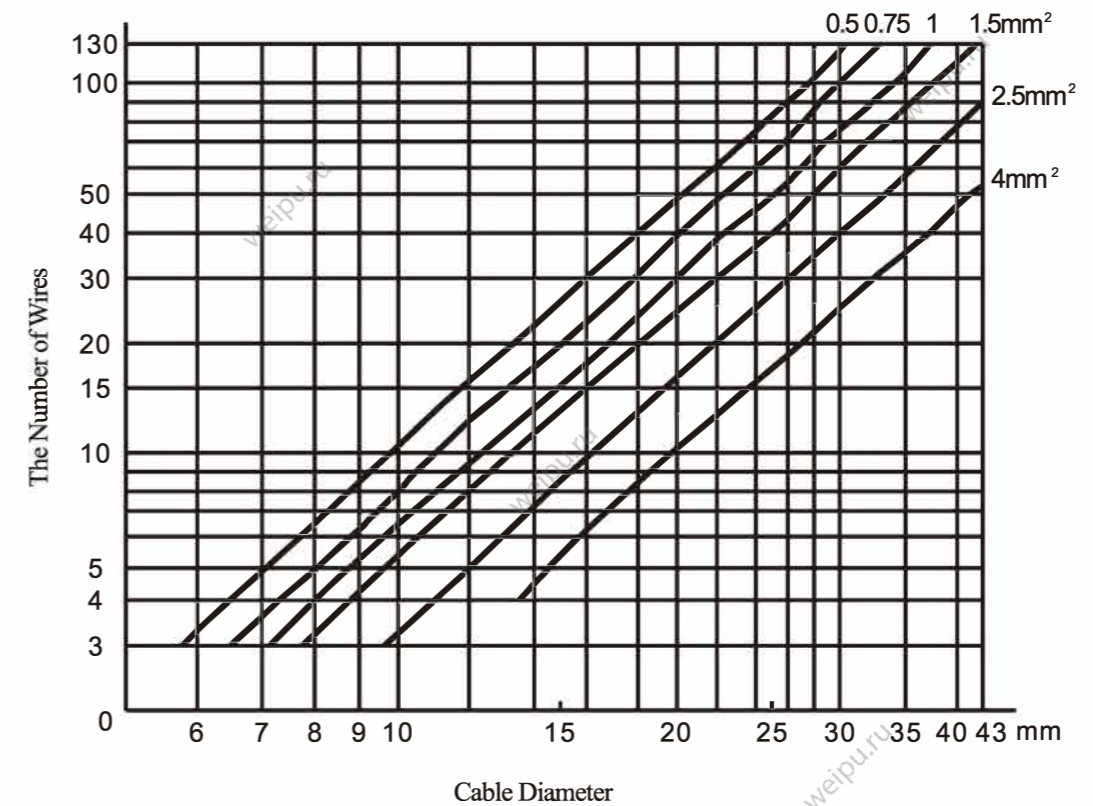
Cable range of metric sealing sleeve:



Cable

The figure shows different cable diameters, depending on wire gauge and number of conductors.

All data are average values for commercial cables.



HA Series-Mini Inserts

Technical Information

Standard: IEC 60664-1、IEC61984

No. of Contact: 3+PE、4+PE、10+PE、16+PE、32 (2×16) +PE

Insert

Rated Current HA-003, HA-004: 10A
HA-010, HA-016, HA-032: 16A
(see current load diagram)

Rated Current HA-3, HA-4: 10A
HA-10, HA-16, HA-32: 16A
(see current load diagram)

Rated Voltage HA-003, HA-004: 250V/400V
HA-010, HA-016, HA-32: 250V

Rated Pulse Voltage 4kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 600V

Mating Cycle ≥ 500

Contact

Material Copper Alloy

Plating Gold-plated, Silver-plated

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

Termination **Screw Termination**

Wire Size 0.75-1.5mm² (HA-003、HA-004)
18-16AWG (HA-003、HA-004)
0.75-2.5mm² (HA-010、HA-016、HA-032)
18-14AWG (HA-010、HA-016、HA-032)

stripping length 4.5mm² (HA-003、HA-004)
7.5mm² (HA-010、HA-016、HA-032)

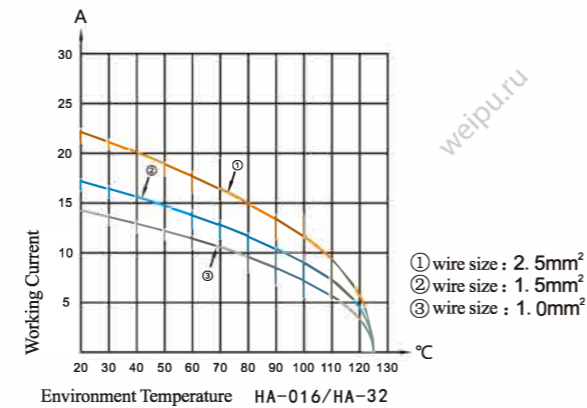
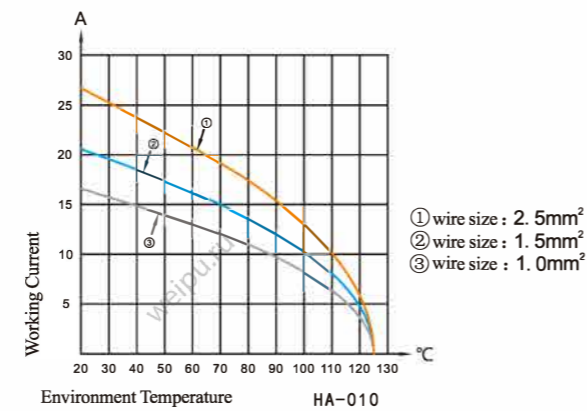
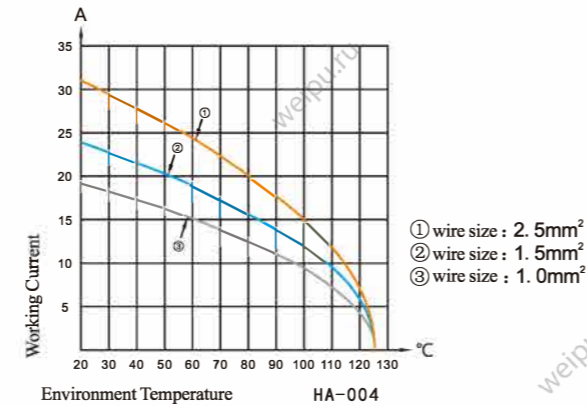
Crimp Termination

Wire Size 0.14-4 mm² 26-12AWG

stripping length 7.5mm²

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2


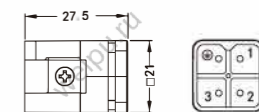
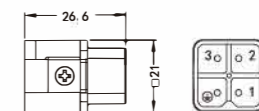

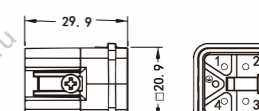
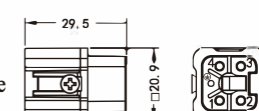


HA-003、HA-004 HA Series-Mini Insert

3+⊕、4+⊕

10A 230/400V 4kV 3


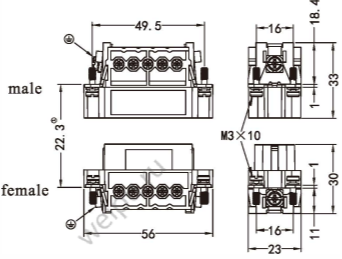

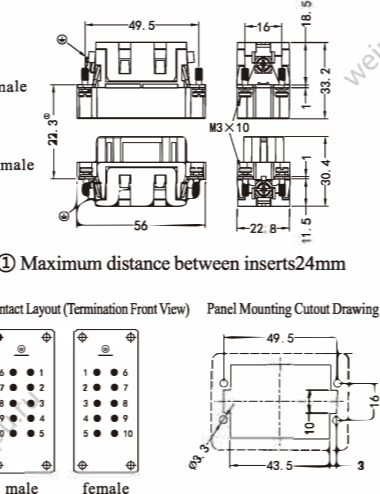
Use with 3A hoods/housings, refer to P15-01—P15-05


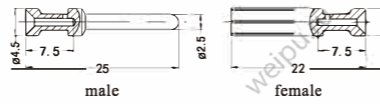

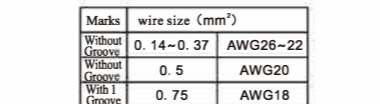
Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~1.5	male 190 010 003 2000	male HA-003-M	male  female  stripping length : 4.5mm Torque: 0.25N · m
		female 190 011 003 2000	female HA-003-F	
Screw Termination Contact surface: silver-plated 	0.75~1.5	male 190 010 004 2000	male HA-004-M	male  female  stripping length : 4.5mm Torque: 0.25N · m
		female 190 011 004 2000	female HA-004-F	

HA-010 HA Series-Mini Insert

10+ \oplus
16A 250V 4kV3

Use with 10A hoods/housings, refer to P16-01—P16-02

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 010 010 2000 female 190 011 010 2000	male HA-010-M/B female HA-010-F/B	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Torque: 0.5N·m
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 010 010 3000 female 190 011 010 3000	male HA-010-MC female HA-010-FC	 ① Maximum distance between inserts 24mm Contact Layout (Termination Front View) Panel Mounting Cutout Drawing


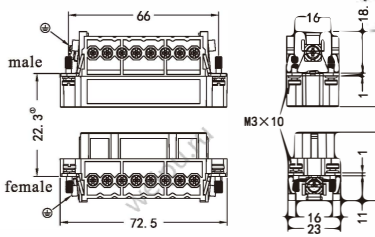

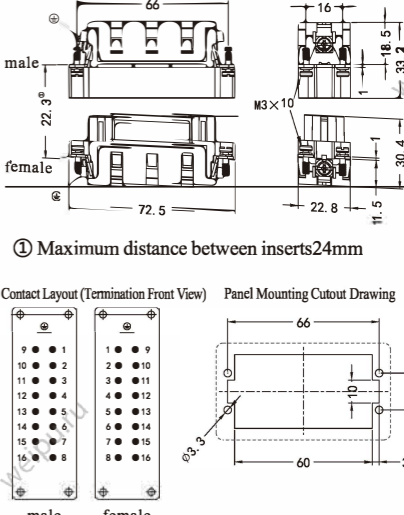
Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Contact resistance $\leq 1m\Omega$
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG	
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG	
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG	
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG	
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG	
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG	
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG	
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Contact resistance $\leq 1m\Omega$
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU	
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU	
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU	
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU	
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU	
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU	
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU	


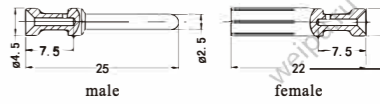

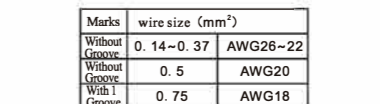
For crimp tool and removal tool, see page P25-01

HA-016 HA Series-Mini Insert


16+ \oplus
16A 250V 4kV 3

Use with 16A hoods/housings, refer to P17-01—P17-02


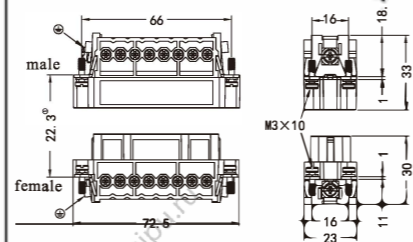

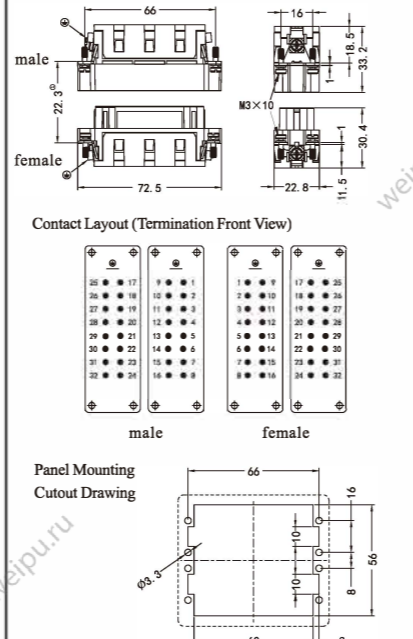
Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 010 016 2000 female 190 011 016 2000	male HA-016-M female HA-016-F	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Torque: 0.5N·m
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 010 016 3000 female 190 011 016 3000	male HA-016-MC female HA-016-FC	 ① Maximum distance between inserts 24mm Contact Layout (Termination Front View) Panel Mounting Cutout Drawing


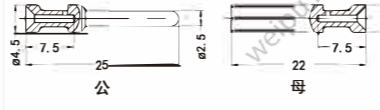

Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Contact resistance $\leq 1m\Omega$
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG	
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG	
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG	
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG	
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG	
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG	
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG	
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Contact resistance $\leq 1m\Omega$
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU	
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU	
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU	
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU	
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU	
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU	
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU	

For crimp tool and removal tool, see page P25-01

HA-032 HA Series-Mini Insert
 32+ 
 16A 250V 4kV 3

Use with 32A hoods/housings, refer to P18-01—P18-03

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 010 016 2000 190 010 016 2010	male HA-016-M HA-016-M(17-32)	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Torque: 0.5N·m
		female 190 011 016 2000 190 011 016 2010	female HA-016-F HA-016-F(17-32)	
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 010 016 3000 190 010 016 3010	male HA-016-MC HA-016-MC(17-32)	 Contact Layout (Termination Front View) Panel Mounting Cutout Drawing
		female 190 011 016 3000 190 011 016 3010	female HA-016-FC HA-016-FC(17-32)	

Crimp Contact	male		female		Drawings (mm)	
	Product Code	Part Number	Product Code	Part Number		
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 Marks wire size (mm ²) Without Groove 0.14~0.37 AWG26~22 Without Groove 0.5 AWG20 With 1 Groove 0.75 AWG18 With 1 Groove 1 AWG18 With 2 Groove 1.5 AWG16 With 3 Groove 2.5 AWG14 Wide Groove 3 AWG12 Without Groove 4 AWG12 stripping length : 7.5mm Contact resistance ≤ 1mΩ	
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG		
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG		
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG		
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG		
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG		
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG		
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG		
	gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030		YK2.5-22-0.37AU
		191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040		YK2.5-22-0.5AU
191 110 016 0060		YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU		
191 110 016 0080		YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU		
191 110 016 0090		YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU		
191 110 016 0100		YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU		
191 110 016 0110		YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU		
191 110 016 0120		YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU		

For crimp tool and removal tool, see page P25-01



Technical Information

Standard: IEC 60664-1、IEC61984
 No. of Contact: 6+PE、10+PE、16+PE、24+PE、32 (2×16)+PE、48 (2×24)+PE

Insert

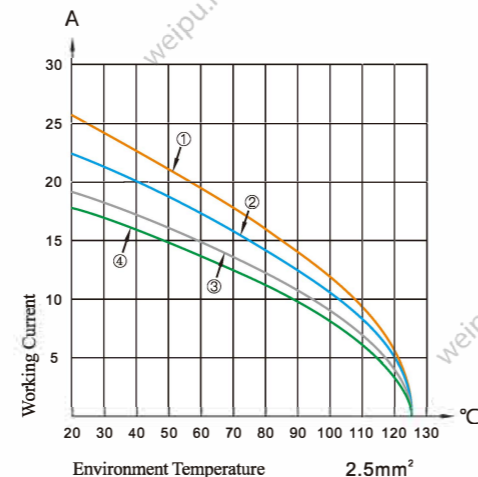
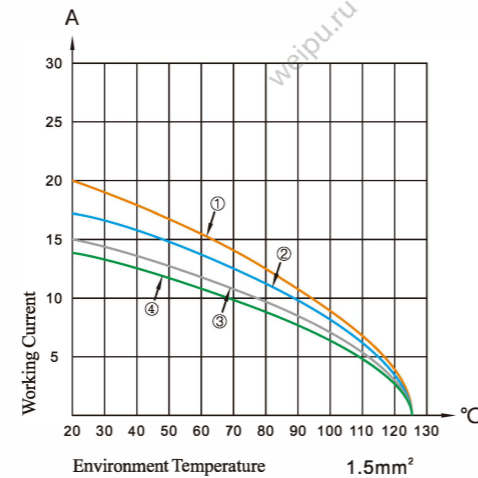
Rated Current	16A (see current load diagram)
Rated Voltage	500V
Rated Pulse Voltage	6kV
Pollution Degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UI94)	V-0
Complies with UL/CSA rated voltage	600V
Mating Cycle	≥500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	≤1mΩ
Termination	Screw Termination
Wire Size	0.75-2.5mm ² 18-14AWG
stripping length	7.5mm
Termination	Crimp Termination
Wire Size	0.14-4 mm ² 26-12AWG
stripping length	7.5mm
Termination	Cage Clamp Termination
Wire Size	0.14-2.5 mm ² 26-14AWG (Not apply to wires with terminals)
stripping length	7-9 mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



HE-006 Regular Insert

6+⊕
 16A 500V 6kV 3

Use with 6B hoods/housings, refer to P19-01—P19-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated	0.75~2.5	male 190 040 006 2000	male HE-006-M	<p>① Maximum distance between inserts 24mm stripping length: 7.5mm Torque: 0.5N·m</p>
		female 190 041 006 2000	female HE-006-F	
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 190 040 006 3000	male HE-006-MC	<p>Contact Layout (Termination Front View) Panel Mounting Cutout Drawing</p>
		female 190 041 006 3000	female HE-006-FC	
Cage Clamp Termination Contact surface: silver-plated	0.14~2.5	male 190 040 006 4000	male HE-006-MS	
		female 190 041 006 4000	female HE-006-FS	

Crimp Contact	male		female		Drawings (mm)																								
	Product Code	Product Code	Part Number	Part Number																									
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	<p>Marks wire size (mm²)</p> <table border="1"> <tr> <td>Without Groove</td> <td>0.14~0.37</td> <td>AWG26~22</td> </tr> <tr> <td>Without Groove</td> <td>0.5</td> <td>AWG20</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75</td> <td>AWG18</td> </tr> <tr> <td>With 1 Groove</td> <td>1</td> <td>AWG18</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5</td> <td>AWG16</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5</td> <td>AWG14</td> </tr> <tr> <td>Wide Groove</td> <td>3</td> <td>AWG12</td> </tr> <tr> <td>Without Groove</td> <td>4</td> <td>AWG12</td> </tr> </table> <p>stripping length : 7.5mm Contact resistance ≤1mΩ</p>	Without Groove	0.14~0.37	AWG26~22	Without Groove	0.5	AWG20	With 1 Groove	0.75	AWG18	With 1 Groove	1	AWG18	With 2 Groove	1.5	AWG16	With 3 Groove	2.5	AWG14	Wide Groove	3	AWG12	Without Groove	4	AWG12
	Without Groove	0.14~0.37	AWG26~22																										
	Without Groove	0.5	AWG20																										
	With 1 Groove	0.75	AWG18																										
	With 1 Groove	1	AWG18																										
	With 2 Groove	1.5	AWG16																										
	With 3 Groove	2.5	AWG14																										
	Wide Groove	3	AWG12																										
	Without Groove	4	AWG12																										
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG																									
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																									
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG																									
191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																										
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																										
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																										
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																										
191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU																										
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191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU																										
191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU																										
191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU																										
191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU																										
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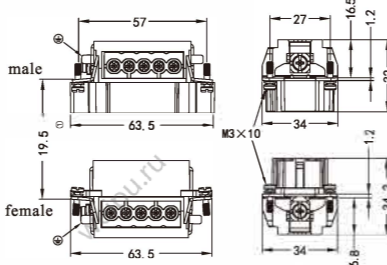

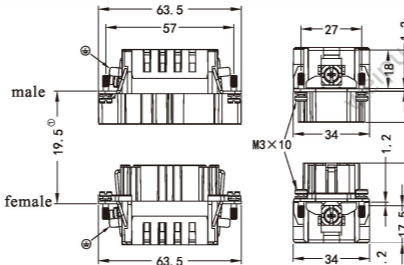

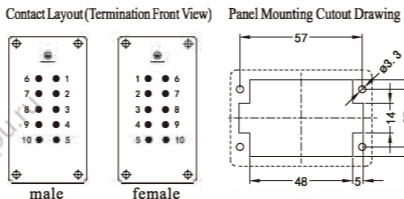
For crimp tool and removal tool, see page P25-01


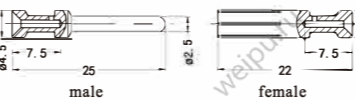

HE-010 Regular Insert

10+⊕

16A 500V 6kV 3

Use with 10B hoods/housings, refer to P20-10

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 040 010 2000	male HE-010-M	 <p>① Maximum distance between inserts 24mm stripping length: 7.5mm Torque: 0.5N·m</p>
		female 190 041 010 2000	female HE-010-F	
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 040 010 3000	male HE-010-MC	
		female 190 041 010 3000	female HE-010-FC	
Cage Clamp Termination Contact surface: silver-plated 	0.14~2.5	male 190 040 010 4000	male HE-010-MS	
		female 190 041 010 4000	female HE-010-FS	

Crimp Contact	male		female		Drawings (mm)																											
	Product Code	Product Code	Part Number	Part Number																												
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 <table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> <th></th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37</td> <td>AWG26~22</td> </tr> <tr> <td>Without Groove</td> <td>0.5</td> <td>AWG20</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75</td> <td>AWG18</td> </tr> <tr> <td>With 1 Groove</td> <td>1</td> <td>AWG18</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5</td> <td>AWG16</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5</td> <td>AWG14</td> </tr> <tr> <td>Wide Groove</td> <td>3</td> <td>AWG12</td> </tr> <tr> <td>Without Groove</td> <td>4</td> <td>AWG12</td> </tr> </tbody> </table> <p>stripping length : 7.5mm Contact resistance ≤ 1mΩ</p>	Marks	wire size (mm ²)		Without Groove	0.14~0.37	AWG26~22	Without Groove	0.5	AWG20	With 1 Groove	0.75	AWG18	With 1 Groove	1	AWG18	With 2 Groove	1.5	AWG16	With 3 Groove	2.5	AWG14	Wide Groove	3	AWG12	Without Groove	4	AWG12
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191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																													
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	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU																												


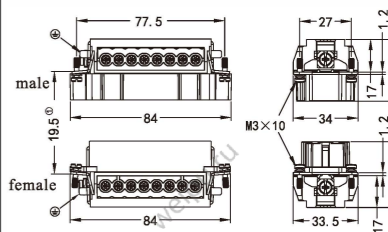

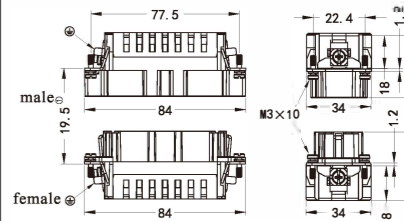
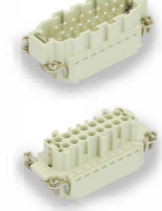
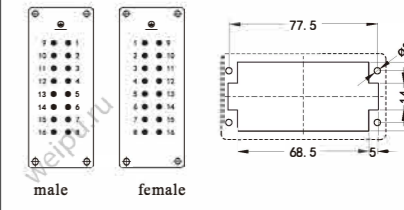
For crimp tool and removal tool, see page P25-01


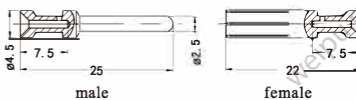

HE-016 Regular Insert

16+⊕

16A 500V 6kV 3

Use with 16B hoods/housings, refer to P21-01

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 040 016 2000	male HE-016-M	 <p>① Maximum distance between inserts 24mm stripping length: 7.5mm Torque: 0.5N·m</p>
		female 190 041 016 2000	female HE-016-F	
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 040 016 3000	male HE-016-MC	
		female 190 041 016 3000	female HE-016-FC	
Cage Clamp Termination Contact surface: silver-plated 	0.14~2.5	male 190 040 016 4000	male HE-016-MS	
		female 190 041 016 4000	female HE-016-FS	

Crimp Contact	male		female		Drawings (mm)																											
	Product Code	Product Code	Part Number	Part Number																												
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 <table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> <th></th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37</td> <td>AWG26~22</td> </tr> <tr> <td>Without Groove</td> <td>0.5</td> <td>AWG20</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75</td> <td>AWG18</td> </tr> <tr> <td>With 1 Groove</td> <td>1</td> <td>AWG18</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5</td> <td>AWG16</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5</td> <td>AWG14</td> </tr> <tr> <td>Wide Groove</td> <td>3</td> <td>AWG12</td> </tr> <tr> <td>Without Groove</td> <td>4</td> <td>AWG12</td> </tr> </tbody> </table> <p>stripping length : 7.5mm Contact resistance ≤ 1mΩ</p>	Marks	wire size (mm ²)		Without Groove	0.14~0.37	AWG26~22	Without Groove	0.5	AWG20	With 1 Groove	0.75	AWG18	With 1 Groove	1	AWG18	With 2 Groove	1.5	AWG16	With 3 Groove	2.5	AWG14	Wide Groove	3	AWG12	Without Groove	4	AWG12
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191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																													
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																													
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																													
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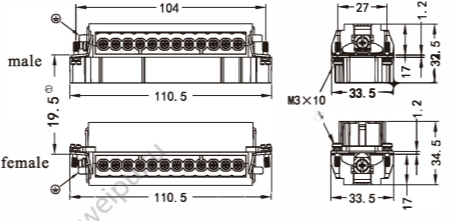

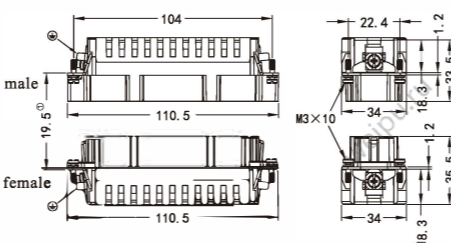
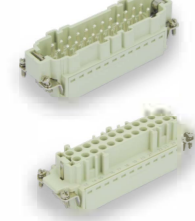
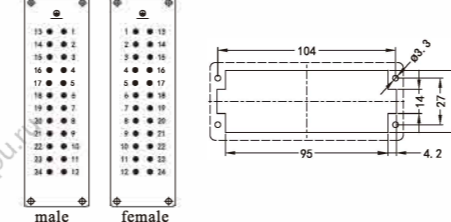
For crimp tool and removal tool, see page P25-01


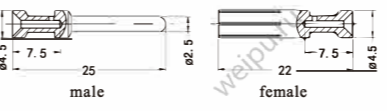

HE-024 Regular Insert

24+ Ⓟ

16A 500V 6kV 3

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 040 024 2000	male HE-024-M	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Torque: 0.5N·m
		female 190 041 024 2000	female HE-024-F	
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 040 024 3000	male HE-024-MC	 Contact Layout (Termination Front View) Panel Mounting Cutout Drawing
		female 190 041 024 3000	female HE-024-FC	
Cage Clamp Termination Contact surface: silver-plated 	0.14~2.5	male 190 040 024 4000	male HE-024-MS	 Contact Layout (Termination Front View) Panel Mounting Cutout Drawing
		female 190 041 024 4000	female HE-024-FS	

Crimp Contact	male		female		Drawings (mm)	
	Product Code	Product Code	Part Number	Part Number		
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 Marks wire size (mm²) Without Groove 0.14~0.37 AWG26~22 Without Groove 0.5 AWG20 With 1 Groove 0.75 AWG18 With 1 Groove 1 AWG18 With 2 Groove 1.5 AWG16 With 3 Groove 2.5 AWG14 Wide Groove 3 AWG12 Without Groove 4 AWG12 stripping length : 7.5mm Contact resistance ≤ 1mΩ	
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG		
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG		
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG		
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG		
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG		
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG		
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG		
	gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030		YK2.5-22-0.37AU
		191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040		YK2.5-22-0.5AU
191 110 016 0060		YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU		
191 110 016 0080		YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU		
191 110 016 0090		YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU		
191 110 016 0100		YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU		
191 110 016 0110		YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU		
191 110 016 0120		YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU		


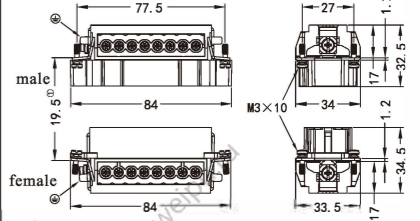

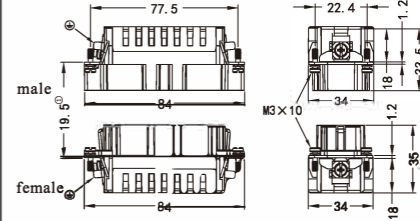
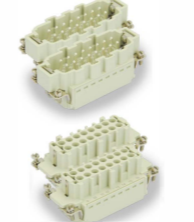
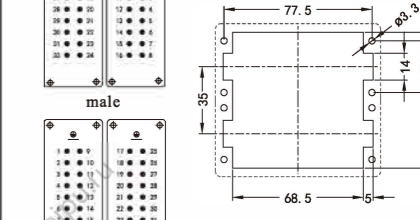
For crimp tool and removal tool, see page P25-01


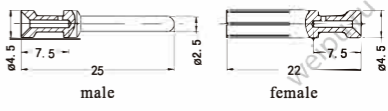

HE-032 Regular Insert

32+ Ⓟ

16A 500V 6kV 3

Use with 32B hoods/housings, refer to P23-01—P23-03

Insert	Wire Size (mm²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 040 016 2000 190 040 016 2010	male HE-016-M HE-016-M(17-32)	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Torque: 0.5N·m
		female 190 041 016 2000 190 041 016 2010	female HE-016-F HE-016-F(17-32)	
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 040 016 3000 190 040 016 3010	male HE-016-MC HE-016-MC(17-32)	 Contact Layout (Termination Front View) Panel Mounting Cutout Drawing
		female 190 041 016 3000 190 041 016 3010	female HE-016-FC HE-016-FC(17-32)	
Cage Clamp Termination Contact surface: silver-plated 	0.14~2.5	male 190 040 016 4000 190 040 016 4010	male HE-016-MS HE-016-MS(17-32)	 Contact Layout (Termination Front View) Panel Mounting Cutout Drawing
		female 190 041 016 4000 190 041 016 4010	female HE-016-FS HE-016-FS(17-32)	

Crimp Contact	male		female		Drawings (mm)	
	Product Code	Product Code	Part Number	Part Number		
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 Marks wire size (mm²) Without Groove 0.14~0.37 AWG26~22 Without Groove 0.5 AWG20 With 1 Groove 0.75 AWG18 With 1 Groove 1 AWG18 With 2 Groove 1.5 AWG16 With 3 Groove 2.5 AWG14 Wide Groove 3 AWG12 Without Groove 4 AWG12 stripping length : 7.5mm Contact resistance ≤ 1mΩ	
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG		
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG		
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG		
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG		
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG		
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG		
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG		
	gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030		YK2.5-22-0.37AU
		191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040		YK2.5-22-0.5AU
191 110 016 0060		YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU		
191 110 016 0080		YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU		
191 110 016 0090		YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU		
191 110 016 0100		YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU		
191 110 016 0110		YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU		
191 110 016 0120		YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU		


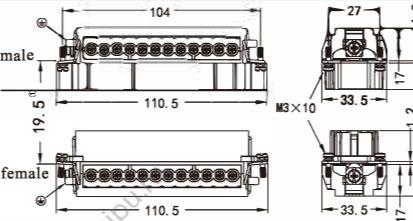
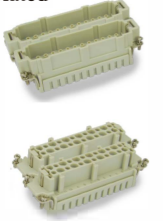
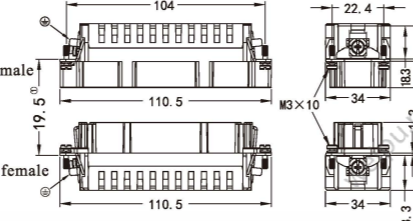
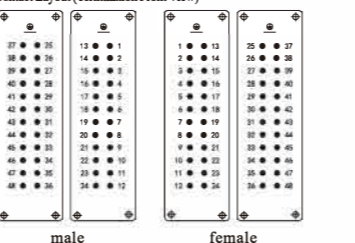
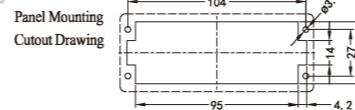
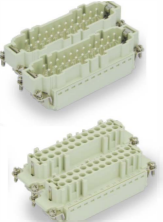
For crimp tool and removal tool, see page P25-01




HE-048 Regular Insert

48+ Ⓟ

16A 500V 6kV 3

Use with 48B hoods/housings, refer to P24-01—P24-02

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 040 024 2000 190 040 024 2010 female 190 041 024 2000 190 041 024 2010	male HE-024-M HE-024-M(25-48) female HE-024-F HE-024-F(25-48)	 ① Maximum distance between inserts 24mm stripping length: 7.5mm Torque: 0.5N·m
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 040 024 3000 190 040 024 3010 female 190 041 024 3000 190 041 024 3010	male HE-024-MC HE-024-MC(25-48) female HE-024-FC HE-024-FC(25-48)	 Contact Layout (Termination Front View)  Panel Mounting Cutout Drawing 
Cage Clamp Termination Contact surface: silver-plated 	0.14~2.5	male 190 040 024 4000 190 040 024 4010 female 190 041 024 4000 190 041 024 4010	male HE-024-MS HE-024-MS(25-48) female HE-024-FS HE-024-FS(25-48)	

Crimp Contact	male		female		Drawings (mm)																											
	Product Code	Product Code	Part Number	Part Number																												
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For crimp tool and removal tool, see page P25-01



HVE Series Insert

Technical Information

Standard: IEC 60664-1, IEC61984

No. of Contact: 3+PE, 6+PE, 10+PE, 12 (2×6) +PE, 20 (2×10) +PE, 16+PE, 32 (2×16) +PE

Insert

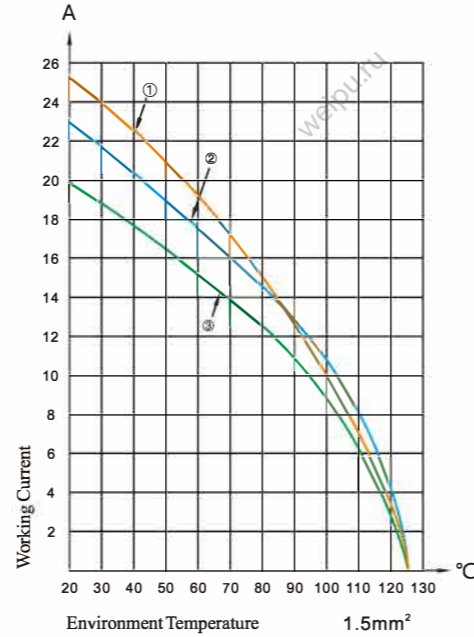
Rated Current	16A (see current load diagram)
Rated Voltage	3, 6, 10, 12, 20 PIN: 830V 16, 32 PIN: Pole-to-ground: 400V, Pole-to-pole: 690V
Rated Pulse Voltage	3, 6, 10, 12, 20 PIN: 8kV 16, 32 PIN: 6kV
Pollution Degree	3
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Complies with UL/CSA rated voltage	600V
Mating Cycle	≥ 500

Contact

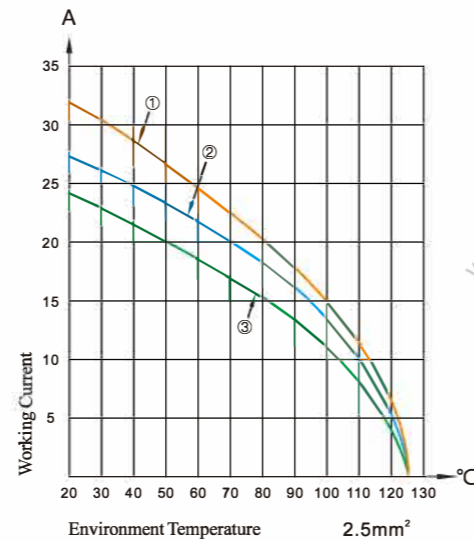
Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	≤ 1mΩ
Termination	Screw Termination
Wire Size	0.75-2.5mm ² 18-13AWG
stripping length	0.75mm
	Crimp Termination
Wire Size	0.14-4 mm ² 26-12AWG
stripping length	0.75mm
	Cage Clamp Termination
Wire Size	0.14-2.5 mm ² 26-14AWG
stripping length	7-9mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① HVE-003
- ② HVE-006, HVE012
- ③ HVE-010, HVE-016, HVE-020, HVE-032



- ① HVE-003
- ② HVE-006, HVE012
- ③ HVE-010, HVE-016, HVE-020, HVE-032

HVE-003 Series-High Voltage Insert

3+⊕

16A 830V 8kV 3 +2↑ Safety delay pin

Use with 10B hoods/housings, refer to P20-01—P20-08

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated	0.75~2.5	male 190 090 003 2000	male HVE-003-M	
		female 190 091 003 2000	female HVE-003-F	
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 190 090 003 3000	male HVE-003-MC	
		female 190 091 003 3000	female HVE-003-FC	

Crimp Contact	male		female		Drawings (mm)	
	Product Code	Part Number	Product Code	Part Number		
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG		
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG		
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG		
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG		
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG		
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG		
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG		
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG		
	gold-plated	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030		YK2.5-22-0.37AU
		191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040		YK2.5-22-0.5AU
		191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060		YK2.5-22-0.75AU
		191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080		YK2.5-22-1.0AU
191 110 016 0090		YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU		
191 110 016 0100		YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU		
Safety delay pin silver-plated	1	191 100 016 4080	YJ2.5-22.8-1.0AG			
	1.5	191 100 016 4090	YJ2.5-22.8-1.5AG			
	2.5	191 100 016 4100	YJ2.5-22.8-2.5AG			

For crimp tool and removal tool, see page P25-01

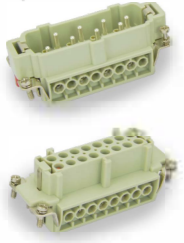
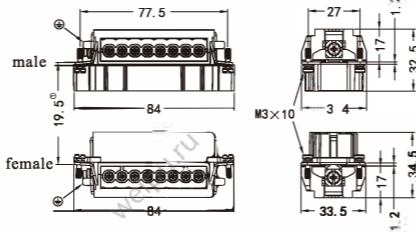
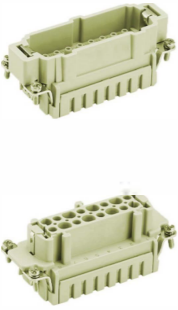
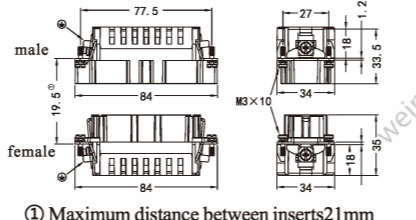
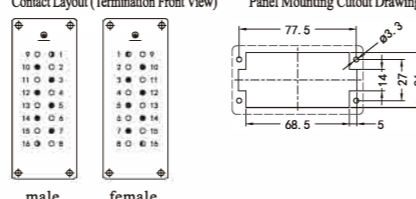
Консультация, подбор, покупка: 8 (800) 551-33-61 | sale@weipu.ru


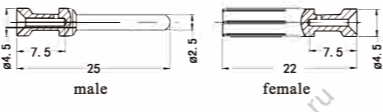

HVE-006 Series-High Voltage Insert

6+⊕

16A 830V 8kV 3 +2 Safety delay pin

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 090 006 2000	male HVE-006-M	 <p>① Maximum distance between inserts 21mm stripping length: 7.5mm Torque: 0.5N·m</p>
		female 190 091 006 2000	female HVE-006-F	
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 090 006 3000	male HVE-006-MC	 <p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View) Panel Mounting Cutout Drawing</p>  <p>male female ● Working pin ○ Safety delay pin ○ Without pin</p>
		female 190 091 006 3000	female HVE-006-FC	

Crimp Contact	male		female		Drawings (mm)																											
	Product Code	Part Number	Product Code	Part Number																												
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 <table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> <th></th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37</td> <td>AWG26~22</td> </tr> <tr> <td>Without Groove</td> <td>0.5</td> <td>AWG20</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75</td> <td>AWG18</td> </tr> <tr> <td>With 1 Groove</td> <td>1</td> <td>AWG18</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5</td> <td>AWG16</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5</td> <td>AWG14</td> </tr> <tr> <td>Wide Groove</td> <td>3</td> <td>AWG12</td> </tr> <tr> <td>Without Groove</td> <td>4</td> <td>AWG12</td> </tr> </tbody> </table> <p>stripping length : 7.5mm</p> <p>Contact resistance ≤ 1mΩ</p>	Marks	wire size (mm ²)		Without Groove	0.14~0.37	AWG26~22	Without Groove	0.5	AWG20	With 1 Groove	0.75	AWG18	With 1 Groove	1	AWG18	With 2 Groove	1.5	AWG16	With 3 Groove	2.5	AWG14	Wide Groove	3	AWG12	Without Groove	4	AWG12
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191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																													
191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG																													
191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																													
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																													
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																													
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																													
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU																												
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	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU																												

Safety delay pin silver-plated 	wire size(mm ²)	Product Code	Part Number
	1	191 100 016 4080	YJ2.5-22.8-1.0AG
	1.5	191 100 016 4090	YJ2.5-22.8-1.5AG
	2.5	191 100 016 4100	YJ2.5-22.8-2.5AG

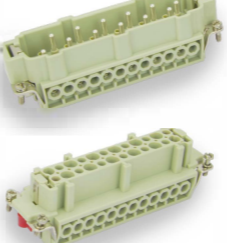
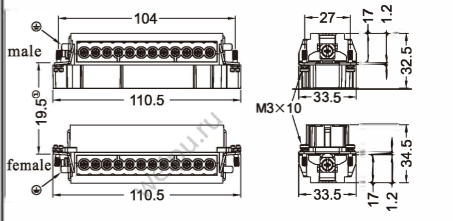

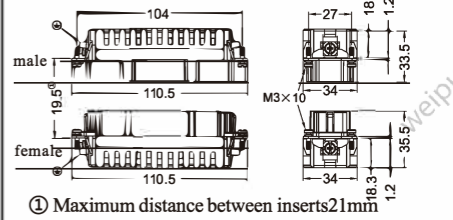
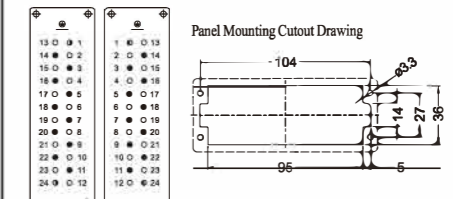
Short delay pin can delay the contact time in order to protect the circuit from arcing


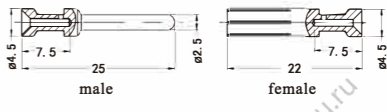

HVE-010 Series-High Voltage Insert

10+⊕

16A 830V 8kV 3 +2 Safety delay pin

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 090 010 2000	male HVE-010-M	 <p>① Maximum distance between inserts 21mm stripping length: 7.5mm Torque: 0.5N·m</p>
		female 190 091 010 2000	female HVE-010-F	
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 090 010 3000	male HVE-010-MC	 <p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View) Panel Mounting Cutout Drawing</p>  <p>male female ● Working pin ○ Safety delay pin ○ Without pin</p>
		female 190 091 010 3000	female HVE-010-FC	

Crimp Contact	male		female		Drawings (mm)																											
	Product Code	Part Number	Product Code	Part Number																												
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 <table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> <th></th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37</td> <td>AWG26~22</td> </tr> <tr> <td>Without Groove</td> <td>0.5</td> <td>AWG20</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75</td> <td>AWG18</td> </tr> <tr> <td>With 1 Groove</td> <td>1</td> <td>AWG18</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5</td> <td>AWG16</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5</td> <td>AWG14</td> </tr> <tr> <td>Wide Groove</td> <td>3</td> <td>AWG12</td> </tr> <tr> <td>Without Groove</td> <td>4</td> <td>AWG12</td> </tr> </tbody> </table> <p>stripping length : 7.5mm</p> <p>Contact resistance ≤ 1mΩ</p>	Marks	wire size (mm ²)		Without Groove	0.14~0.37	AWG26~22	Without Groove	0.5	AWG20	With 1 Groove	0.75	AWG18	With 1 Groove	1	AWG18	With 2 Groove	1.5	AWG16	With 3 Groove	2.5	AWG14	Wide Groove	3	AWG12	Without Groove	4	AWG12
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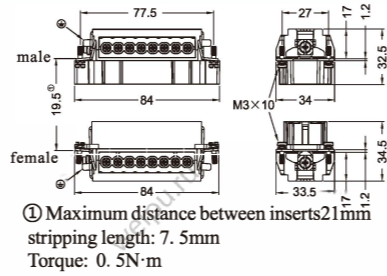

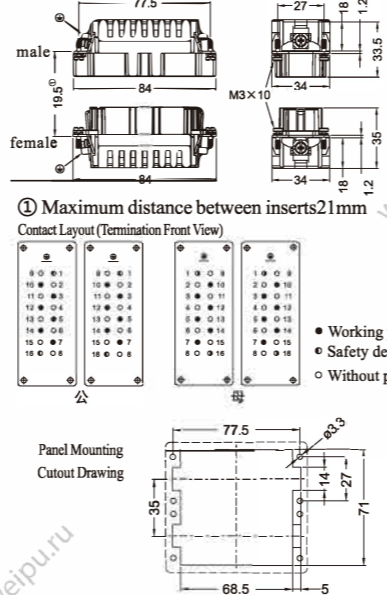
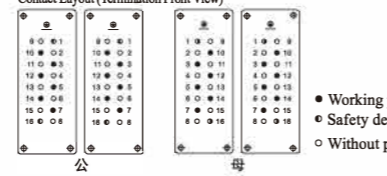
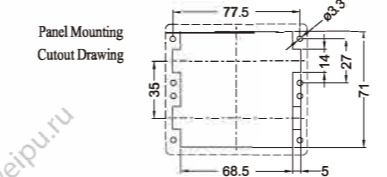
Safety delay pin silver-plated 	wire size(mm ²)	Product Code	Part Number
	1	191 100 016 4080	YJ2.5-22.8-1.0AG
	1.5	191 100 016 4090	YJ2.5-22.8-1.5AG
	2.5	191 100 016 4100	YJ2.5-22.8-2.5AG


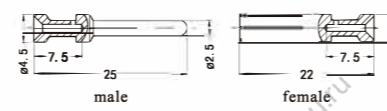


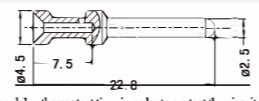
Short delay pin can delay the contact time in order to protect the circuit from arcing

HVE-012 Series-High Voltage Insert

12+ \oplus
16A 830V 8kV 3 +4 Safety delay pin

Use with 32B hoods/housings, refer to P23-01—P23-03

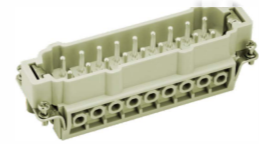
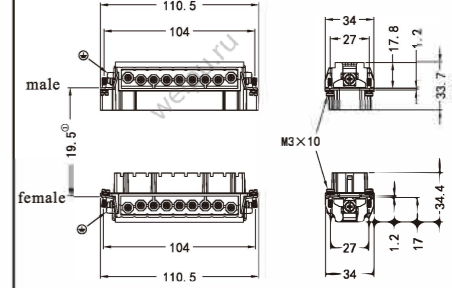
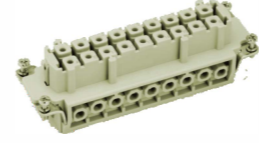
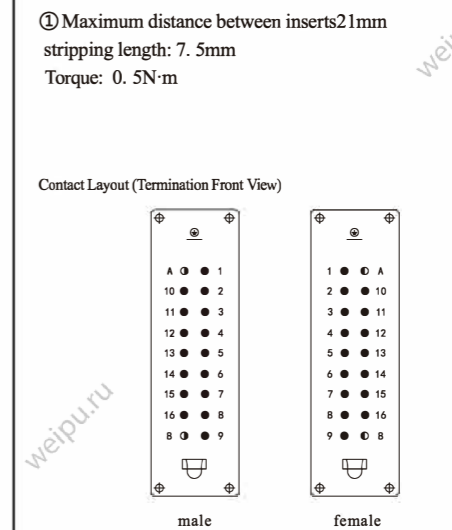
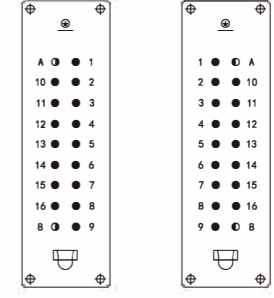
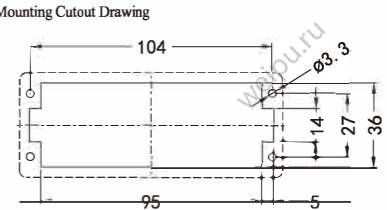
Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 090 006 2000 190 090 006 2010 female 190 091 006 2000 190 091 006 2010	male HVE-006-M HVE-006-M(7-12) female HVE-006-F HVE-006-F(7-12)	 ① Maximum distance between inserts 21mm stripping length: 7.5mm Torque: 0.5N·m
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 090 006 3000 190 090 006 3010 female 190 091 006 3000 190 091 006 3010	male HVE-006-MC HVE-006-MC(7-12) female HVE-006-FC HVE-006-FC(7-12)	 ① Maximum distance between inserts 21mm Contact Layout (Termination Front View)  ● Working pin ● Safety delay pin ○ Without pin Panel Mounting Cutout Drawing 

Crimp Contact	male		female		Drawings (mm)																		
	Product Code	Part Number	Product Code	Part Number																			
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 <table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37 AWG26~22</td> </tr> <tr> <td>Without Groove</td> <td>0.5 AWG20</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75 AWG18</td> </tr> <tr> <td>With 1 Groove</td> <td>1 AWG18</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5 AWG16</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5 AWG14</td> </tr> <tr> <td>Wide Groove</td> <td>3 AWG12</td> </tr> <tr> <td>Without Groove</td> <td>4 AWG12</td> </tr> </tbody> </table> stripping length : 7.5mm Contact resistance ≤ 1mΩ	Marks	wire size (mm ²)	Without Groove	0.14~0.37 AWG26~22	Without Groove	0.5 AWG20	With 1 Groove	0.75 AWG18	With 1 Groove	1 AWG18	With 2 Groove	1.5 AWG16	With 3 Groove	2.5 AWG14	Wide Groove	3 AWG12	Without Groove	4 AWG12
	Marks	wire size (mm ²)																					
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	Wide Groove	3 AWG12																					
	Without Groove	4 AWG12																					
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG																			
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																			
191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG																				
191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																				
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																				
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																				
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																				
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU																			
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU																			
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU																			
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU																			
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU																			
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU																			
Safety delay pin silver-plated 	wire size (mm ²)	Product Code	Part Number	 Short delay pin can delay the contact time in order to protect the circuit from arcing																			
	1	191 100 016 4080	YJ2.5-22.8-1.0AG																				
	1.5	191 100 016 4090	YJ2.5-22.8-1.5AG																				
	2.5	191 100 016 4100	YJ2.5-22.8-2.5AG																				

HVE-016 Series-High Voltage Insert

16+ \oplus
16A 400/690V 6kV 3 +2 Safety delay pin

Use with 32B hoods/housings, refer to P23-01—P23-03

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 		male 190 090 016 2000	male HVE-016-M	 ① Maximum distance between inserts 21mm stripping length: 7.5mm Torque: 0.5N·m
	0.75~2.5	female 190 091 016 2000	female HVE-016-F	 ① Maximum distance between inserts 21mm stripping length: 7.5mm Torque: 0.5N·m Contact Layout (Termination Front View)  ● Working pin ● Safety delay pin ○ Without pin Panel Mounting Cutout Drawing 


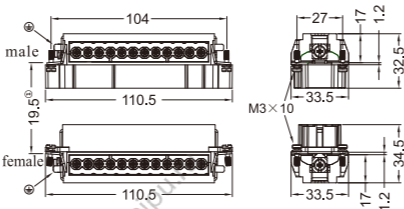
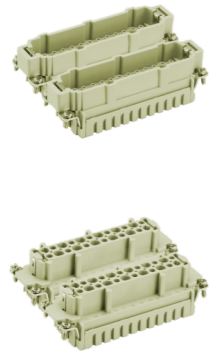
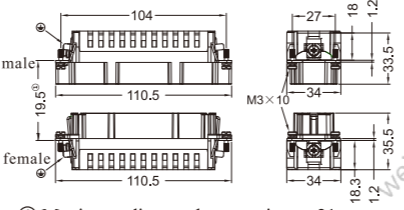
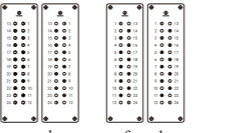
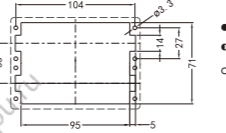
For crimp tool and removal tool, see page P25-01


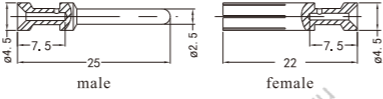

HVE-020 Series-High Voltage Insert

20+ ⊕

16A 830V 8kV 3 +4 Safety delay pin

Use with 48B hoods/housings, refer to P24-01—P24-02

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 090 010 2000 190 090 010 2010 female 190 091 010 2000 190 091 010 2010	male HVE-010-M HVE-010-M(11-20) female HVE-010-F HVE-010-F(11-20)	 ① Maximum distance between inserts 21mm stripping length: 7.5mm Torque: 0.5N·m
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 090 010 3000 190 090 010 3010 female 190 091 010 3000 190 091 010 3010	male HVE-010-MC HVE-010-MC(11-20) female HVE-010-FC HVE-010-FC(11-20)	 ① Maximum distance between inserts 21mm Contact Layout (Termination Front View)  Panel Mounting Cutout Drawing  ● Working pin ● Safety delay pin ○ Without pin

Crimp Contact	male		female		Drawings (mm)																		
	Product Code	Part Number	Product Code	Part Number																			
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 <table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37 AWG26~22</td> </tr> <tr> <td>With 1 Groove</td> <td>0.5 AWG20</td> </tr> <tr> <td>With 2 Groove</td> <td>0.75 AWG18</td> </tr> <tr> <td>With 3 Groove</td> <td>1 AWG18</td> </tr> <tr> <td>Wide Groove</td> <td>1.5 AWG16</td> </tr> <tr> <td>Without Groove</td> <td>2.5 AWG14</td> </tr> <tr> <td>Without Groove</td> <td>3 AWG12</td> </tr> <tr> <td>Without Groove</td> <td>4 AWG12</td> </tr> </tbody> </table> stripping length : 7.5mm Contact resistance ≤ 1mΩ	Marks	wire size (mm ²)	Without Groove	0.14~0.37 AWG26~22	With 1 Groove	0.5 AWG20	With 2 Groove	0.75 AWG18	With 3 Groove	1 AWG18	Wide Groove	1.5 AWG16	Without Groove	2.5 AWG14	Without Groove	3 AWG12	Without Groove	4 AWG12
	Marks	wire size (mm ²)																					
	Without Groove	0.14~0.37 AWG26~22																					
	With 1 Groove	0.5 AWG20																					
	With 2 Groove	0.75 AWG18																					
	With 3 Groove	1 AWG18																					
	Wide Groove	1.5 AWG16																					
	Without Groove	2.5 AWG14																					
Without Groove	3 AWG12																						
Without Groove	4 AWG12																						
191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG																				
191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																				
191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG																				
191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																				
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																				
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																				
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																				
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU																			
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU																			
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU																			
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU																			
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU																			
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	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU																			
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU																			

	wire size(mm ²)	Product Code	Part Number
Safety delay pin silver-plated 	1	191 100 016 4080	YJ2.5-22.8-1.0AG
	1.5	191 100 016 4090	YJ2.5-22.8-1.5AG
	2.5	191 100 016 4100	YJ2.5-22.8-2.5AG

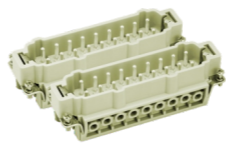
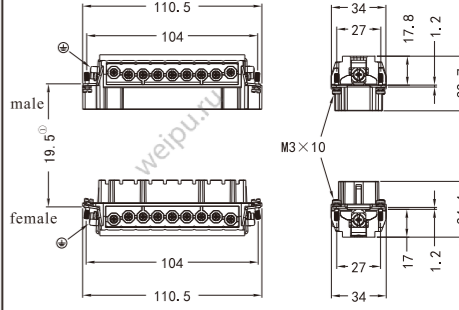
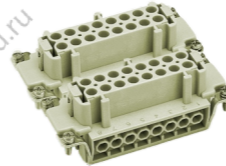
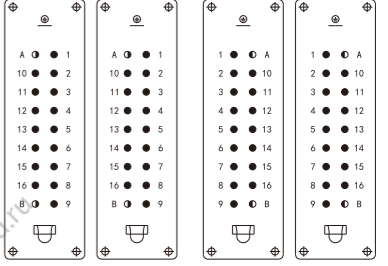
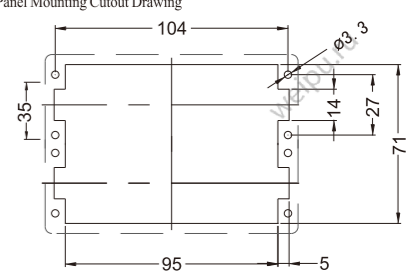
Short delay pin can delay the contact time in order to protect the circuit from arcing

HVE-032 Series-High Voltage Insert

32+ ⊕

16A 400/690V 6kV 3 +4 Safety delay pin

Use with 48B hoods/housings, refer to P24-01—P24-02

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	0.75~2.5	male 190 090 016 2000 190 090 016 2010	male HVE-016-F HVE-016-F(17-32)	 ① Maximum distance between inserts 21mm stripping length: 7.5mm Torque: 0.5N·m
		female 190 091 016 2000 190 091 016 2010	female HVE-016-M HVE-016-M(17-32)	 Contact Layout (Termination Front View) ● Working pin ● Safety delay pin ○ Without pin  Panel Mounting Cutout Drawing

For crimp tool and removal tool, see page P25-01

HEE Series-High Density Insert

Technical Information

Standard: IEC 60664-1, IEC61984

No. of Contact: 10+PE, 18+PE, 32+PE, 46+PE,
64 (2×32)+PE, 92(2×46)+PE

Insert

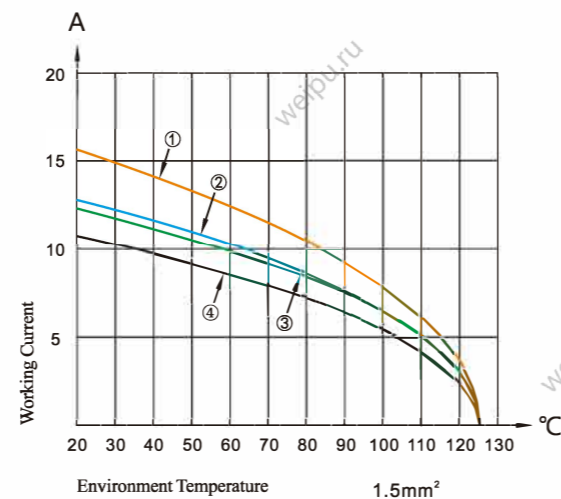
Rated Current	16A (see current load diagram)
Rated Voltage	500V
Rated Pulse Voltage	6kV
Pollution Degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Complies with UL/CSA rated voltage	600V
Mating Cycle	≥ 500

Contact

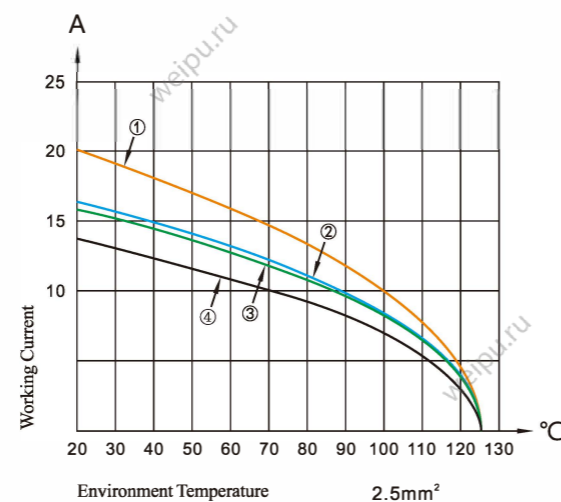
Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 1m\Omega$
Termination	Crimp Termination
Wire Size	0.14-4 mm ² 26-12AWG
stripping length	7.5mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① HEE-010
- ② HEE-018
- ③ HEE-032, HEE-064
- ④ HEE-046, HEE-092



- ① HEE-010
- ② HEE-018
- ③ HEE-032, HEE-064
- ④ HEE-046, HEE-092

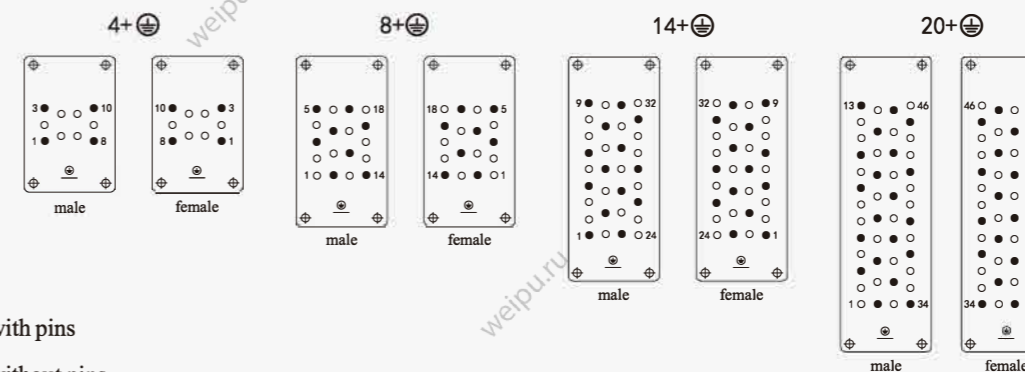
HEE Series Series-High Density Insert

HEE series insert in the state of full pins, and pollution level is 3, its working voltage is 500V

After adjusting the pin layout, it can work up to 1000V at pollution level 3

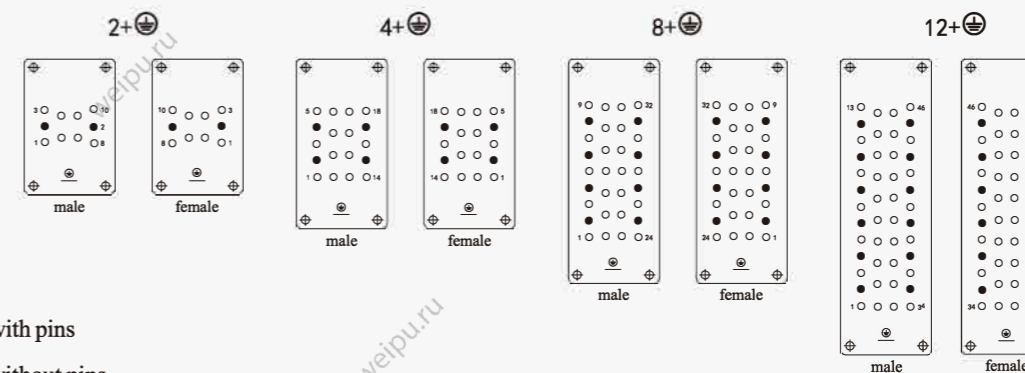
HEE Series

690V-Pollution Degree 3



HEE Series



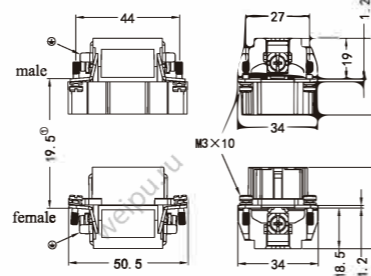
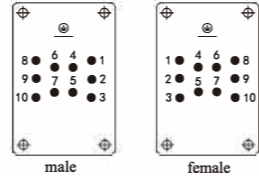
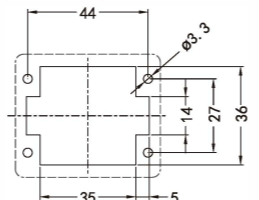
1000V-Pollution Degree 3


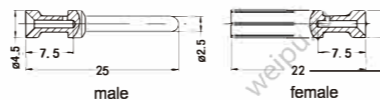



HEE-010 Series-High Density Insert

10+ \oplus
16A 500V 6KV 3

Use with 6B hoods/housings, refer to P19-01—P19-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated  	0.14~4	male 190 050 010 3000	male HEE-010-MC	 <p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p>  <p>Panel Mounting Cutout Drawing</p> 
		female 190 051 010 3000	female HEE-010-FC	



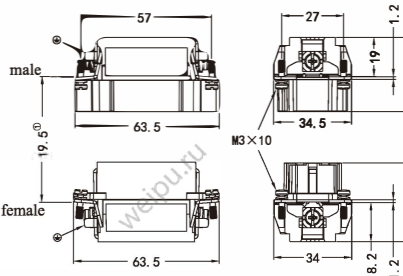
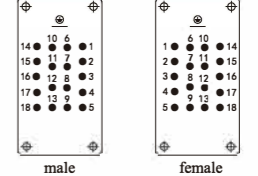
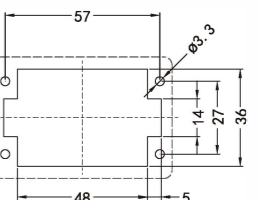
Crimp Contact	male		female		Drawings (mm)																		
	Product Code	Part Number	Product Code	Part Number																			
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 <table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37</td> </tr> <tr> <td>Without Groove</td> <td>0.5</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75</td> </tr> <tr> <td>With 1 Groove</td> <td>1</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5</td> </tr> <tr> <td>Wide Groove</td> <td>3</td> </tr> <tr> <td>Without Groove</td> <td>4</td> </tr> </tbody> </table> <p>stripping length : 7.5mm</p> <p>Contact resistance $\leq 1m\Omega$</p>	Marks	wire size (mm ²)	Without Groove	0.14~0.37	Without Groove	0.5	With 1 Groove	0.75	With 1 Groove	1	With 2 Groove	1.5	With 3 Groove	2.5	Wide Groove	3	Without Groove	4
	Marks	wire size (mm ²)																					
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	With 1 Groove	0.75																					
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Wide Groove	3																						
Without Groove	4																						
191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG																				
191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																				
191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG																				
191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																				
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																				
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																				
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																				
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU																			
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU																			
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU																			
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU																			
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU																			
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU																			
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU																			
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU																			


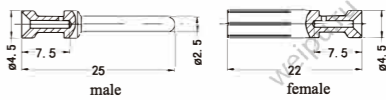

For crimp tool and removal tool, see page P25-01

HEE-018 Series-High Density Insert

18+ \oplus
16A 500V 6KV 3

Use with 10B hoods/housings, refer to P20-01—P20-08

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated  	0.14~4	male 190 050 018 3000	male HEE-018-MC	 <p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p>  <p>Panel Mounting Cutout Drawing</p> 
		female 190 051 018 3000	female HEE-018-FC	



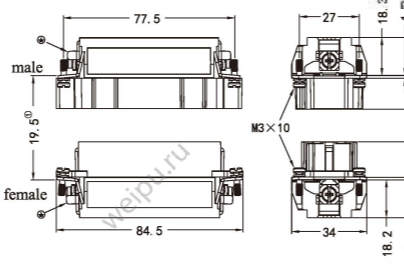
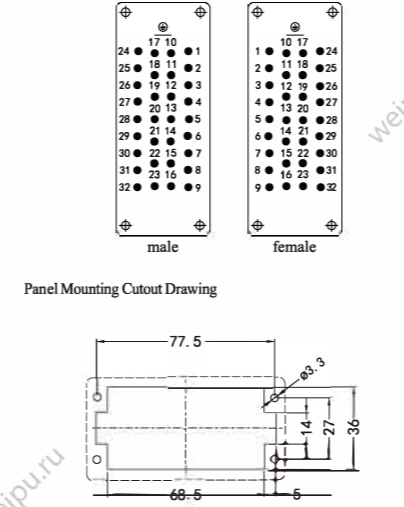
Crimp Contact	male		female		Drawings (mm)																		
	Product Code	Part Number	Product Code	Part Number																			
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 <table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37</td> </tr> <tr> <td>Without Groove</td> <td>0.5</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75</td> </tr> <tr> <td>With 1 Groove</td> <td>1</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5</td> </tr> <tr> <td>Wide Groove</td> <td>3</td> </tr> <tr> <td>Without Groove</td> <td>4</td> </tr> </tbody> </table> <p>stripping length : 7.5mm</p> <p>Contact resistance $\leq 1m\Omega$</p>	Marks	wire size (mm ²)	Without Groove	0.14~0.37	Without Groove	0.5	With 1 Groove	0.75	With 1 Groove	1	With 2 Groove	1.5	With 3 Groove	2.5	Wide Groove	3	Without Groove	4
	Marks	wire size (mm ²)																					
	Without Groove	0.14~0.37																					
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	With 3 Groove	2.5																					
Wide Groove	3																						
Without Groove	4																						
191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG																				
191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																				
191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG																				
191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																				
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																				
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																				
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																				
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU																			
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU																			
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU																			
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU																			
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU																			
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU																			
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU																			
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU																			


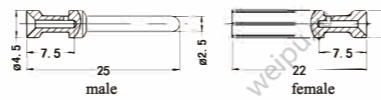

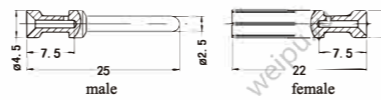
For crimp tool and removal tool, see page P25-01

HEE-032 Series-High Density Insert

32+ ⊕
16A 500V 6kV 3

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated  	0.14~4	male 190 050 032 3000	male HEE-032-MC	
		female 190 051 032 3000	female HEE-032-FC	



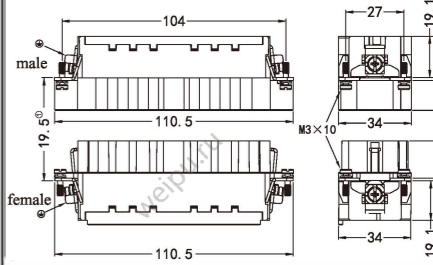
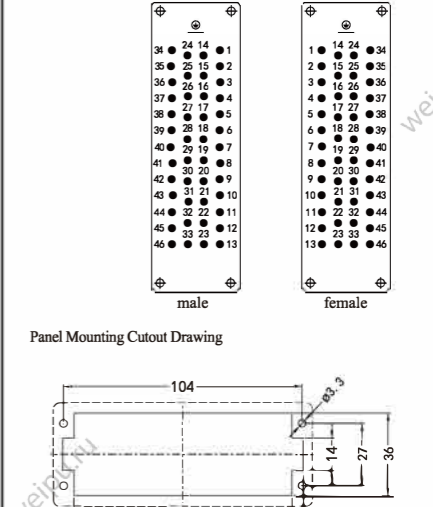
Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG	
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG	
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG	
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG	
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG	
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG	
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG	
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU	
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU	
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU	
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU	
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU	
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU	
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU	
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU	


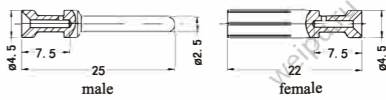

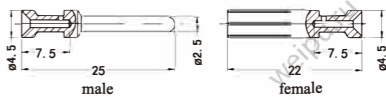
For crimp tool and removal tool, see page P25-01

HEE-046 Series-High Density Insert

46+ ⊕
16A 500V 6kV 3

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated  	0.14~4	male 190 050 046 3000	male HEE-046-MC	
		female 190 051 046 3000	female HEE-046-FC	

Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG	
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG	
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG	
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG	
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG	
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG	
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG	
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU	
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU	
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU	
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU	
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU	
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU	
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU	
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU	

For crimp tool and removal tool, see page P25-01

HEE-064 Series-High Density Insert

64+ Ⓟ

16A 500V 6kV 3

Use with 32B hoods/housings, refer to P23-01—P23-03

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 190 050 032 3000 190 050 032 3010	male HEE-032-MC HEE-032-MC(33-64)	<p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p> <p>Panel Mounting Cutout Drawing</p>
		female 190 051 032 3000 190 051 032 3010	female HEE-032-FC HEE-032-FC(33-64)	

Crimp Contact	male		female		Drawings (mm)																		
	Product Code	Part Number	Product Code	Part Number																			
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	<table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37</td> </tr> <tr> <td>Without Groove</td> <td>0.5</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75</td> </tr> <tr> <td>With 1 Groove</td> <td>1</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5</td> </tr> <tr> <td>Wide Groove</td> <td>3</td> </tr> <tr> <td>Without Groove</td> <td>4</td> </tr> </tbody> </table> <p>stripping length : 7.5mm</p> <p>Contact resistance ≤ 1mΩ</p>	Marks	wire size (mm ²)	Without Groove	0.14~0.37	Without Groove	0.5	With 1 Groove	0.75	With 1 Groove	1	With 2 Groove	1.5	With 3 Groove	2.5	Wide Groove	3	Without Groove	4
	Marks	wire size (mm ²)																					
	Without Groove	0.14~0.37																					
	Without Groove	0.5																					
	With 1 Groove	0.75																					
	With 1 Groove	1																					
	With 2 Groove	1.5																					
	With 3 Groove	2.5																					
Wide Groove	3																						
Without Groove	4																						
191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG																				
191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																				
191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG																				
191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																				
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																				
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																				
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																				
gold-plated	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU																			
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU																			
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU																			
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU																			
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU																			
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU																			
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU																			
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU																			

For crimp tool and removal tool, see page P25-01

HEE-092 Series-High Density Insert

92+ Ⓟ

16A 500V 6kV 3

Use with 48B hoods/housings, refer to P24-01—P24-02

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 190 050 046 3000 190 050 046 3010	male HEE-046-MC HEE-046-MC(47-92)	<p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p> <p>Panel Mounting Cutout Drawing</p>
		female 190 051 046 3000 190 051 046 3010	female HEE-046-FC HEE-046-FC(47-92)	

Crimp Contact	male		female		Drawings (mm)																		
	Product Code	Part Number	Product Code	Part Number																			
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	<table border="1"> <thead> <tr> <th>Marks</th> <th>wire size (mm²)</th> </tr> </thead> <tbody> <tr> <td>Without Groove</td> <td>0.14~0.37</td> </tr> <tr> <td>Without Groove</td> <td>0.5</td> </tr> <tr> <td>With 1 Groove</td> <td>0.75</td> </tr> <tr> <td>With 1 Groove</td> <td>1</td> </tr> <tr> <td>With 2 Groove</td> <td>1.5</td> </tr> <tr> <td>With 3 Groove</td> <td>2.5</td> </tr> <tr> <td>Wide Groove</td> <td>3</td> </tr> <tr> <td>Without Groove</td> <td>4</td> </tr> </tbody> </table> <p>stripping length : 7.5mm</p> <p>Contact resistance ≤ 1mΩ</p>	Marks	wire size (mm ²)	Without Groove	0.14~0.37	Without Groove	0.5	With 1 Groove	0.75	With 1 Groove	1	With 2 Groove	1.5	With 3 Groove	2.5	Wide Groove	3	Without Groove	4
	Marks	wire size (mm ²)																					
	Without Groove	0.14~0.37																					
	Without Groove	0.5																					
	With 1 Groove	0.75																					
	With 1 Groove	1																					
	With 2 Groove	1.5																					
	With 3 Groove	2.5																					
Wide Groove	3																						
Without Groove	4																						
191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG																				
191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																				
191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG																				
191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																				
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																				
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																				
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																				
gold-plated	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU																			
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU																			
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU																			
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU																			
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU																			
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU																			
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU																			
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU																			

For crimp tool and removal tool, see page P25-01

HEEE Series-High Density Insert

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 40+PE、64+PE、80(2×40)+PE、128(2×64)+PE

Insert

Rated Current 16A (see current load diagram)

Rated Voltage 500V

Rated Pulse Voltage 6kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Mating Cycle ≥ 500

Contact

Material Copper Alloy

Plating Gold-plated, Silver-plated

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

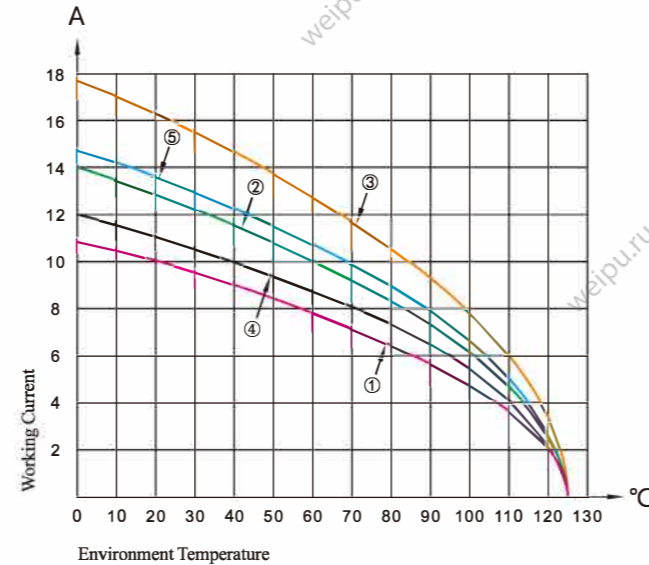
Termination **Crimp Termination**

Wire Size 0.14-4 mm² 26-12AWG

stripping length 7.5mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① HEEE-064, wire size : 1.5mm²
- ② HEEE-064, wire size : 2.5mm²
- ③ HEEE-064, wire size : 4mm²
- ④ HEEE-040, wire size : 1.5mm²
- ⑤ HEEE-040, wire size : 2.5mm²

HEEE-040 Series-High Density Insert

40+⊕

16A 500V 6kV 3

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 190 110 040 3000	male HEEE-040-MC	
		female 190 111 040 3000	female HEEE-040-FC	
				① Maximum distance between inserts 21mm Contact Layout (Termination Front View)
				Panel Mounting Cutout Drawing

Crimp Contact	male		female		Drawings (mm)	
	Product Code	Part Number	Product Code	Part Number		
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG		
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG		
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG		
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG		
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG		
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG		
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG		
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG		
	gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030		YK2.5-22-0.37AU
		191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040		YK2.5-22-0.5AU
191 110 016 0060		YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU		
191 110 016 0080		YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU		
191 110 016 0090		YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU		
191 110 016 0100		YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU		
191 110 016 0110		YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU		
191 110 016 0120		YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU		

Marks	wire size (mm ²)	AWG
Without Groove	0.14~0.37	AWG26~22
With 1 Groove	0.5	AWG20
With 2 Groove	0.75	AWG18
With 3 Groove	1	AWG18
Wide Groove	1.5	AWG16
Without Groove	2.5	AWG14
Without Groove	3	AWG12
Without Groove	4	AWG12

stripping length : 7.5mm
Contact resistance $\leq 1\text{m}\Omega$

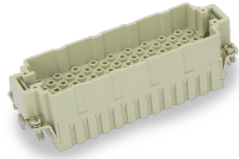
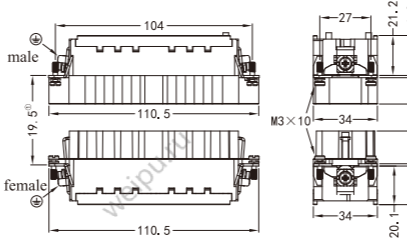
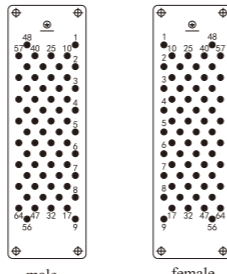
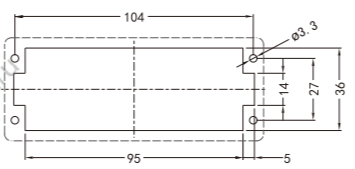
For crimp tool and removal tool, see page P25-01


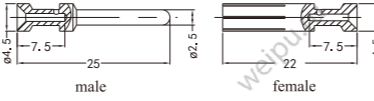

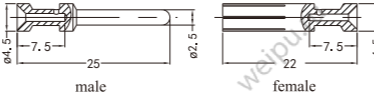
HEEE-064 Series-High Density Insert

64+ Ⓢ

16A 500V 6kV 3

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 110 064 3000	male HEEE-064-MC	 Ⓛ Maximum distance between inserts 21mm Contact Layout (Termination Front View)  Panel Mounting Cutout Drawing 
		female 190 111 064 3000	female HEEE-064-FC	

Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 Ⓛ Maximum distance between inserts 21mm Contact resistance ≤ 1mΩ
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG	
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG	
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG	
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG	
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG	
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG	
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG	
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU	 Ⓛ Maximum distance between inserts 21mm Contact resistance ≤ 1mΩ
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU	
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU	
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU	
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU	
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU	
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU	
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU	


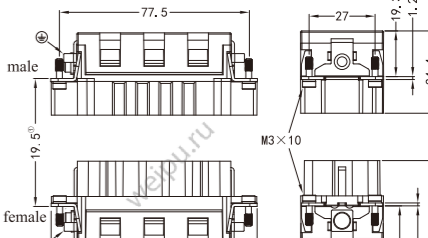
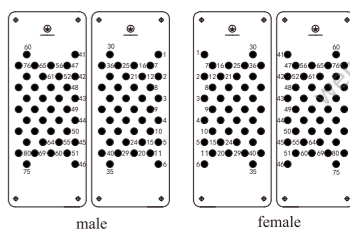
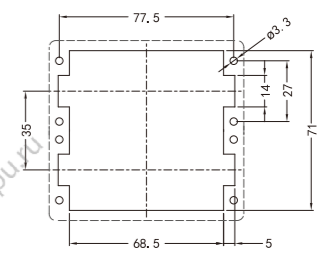
For crimp tool and removal tool, see page P25-01


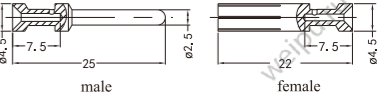

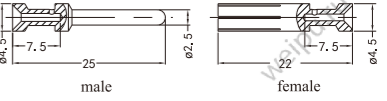
HEEE-080 Series-High Density Insert

80+ Ⓢ

16A 500V 6kV 3

Use with 32B hoods/housings, refer to P23-01—P23-03

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~4	male 190 110 040 3000 190 110 040 3010	male HEEE-040-MC HEEE-040-MC(41-80)	 Ⓛ Maximum distance between inserts 21mm Contact Layout (Termination Front View)  Panel Mounting Cutout Drawing 
		male 190 111 040 3000 190 111 040 3010	male HEEE-040-FC HEEE-040-FC(41-80)	

Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 Ⓛ Maximum distance between inserts 21mm Contact resistance ≤ 1mΩ
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG	
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG	
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG	
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG	
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG	
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG	
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG	
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU	 Ⓛ Maximum distance between inserts 21mm Contact resistance ≤ 1mΩ
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU	
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU	
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU	
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU	
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU	
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU	
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU	

For crimp tool and removal tool, see page P25-01

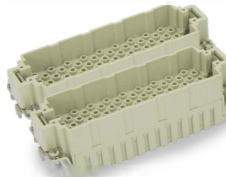
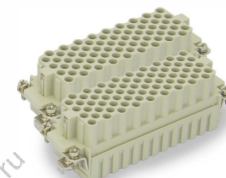
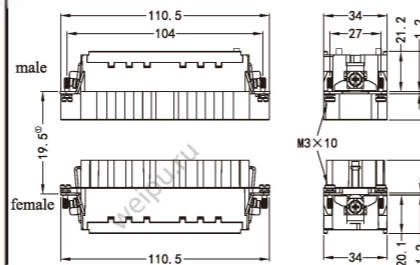
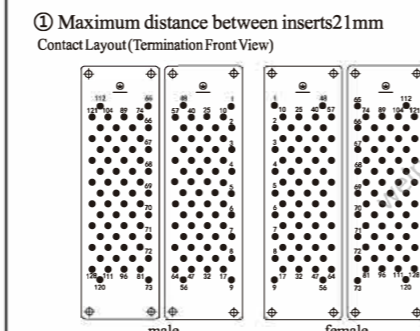
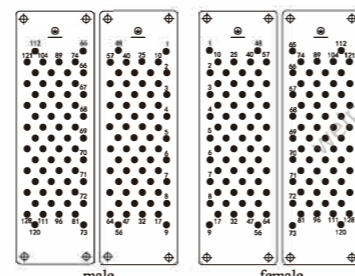
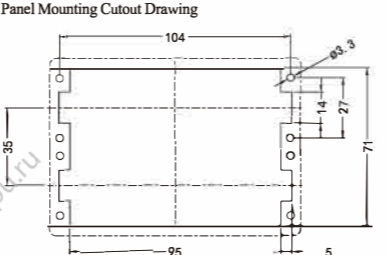
HEEE-128 Series-High Density Insert


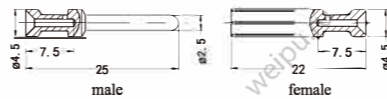

128+⊕

16A 500V 6kV 3

Use with 48B hoods/housings, refer to P24-01—P24-02

05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated  	0.14~4	male 190 110 064 3000 190 110 064 3010	male HEEE-064-MC HEEE-064-MC(65-128)	
		male 190 111 064 3000 190 111 064 3010	male HEEE-064-FC HEEE-064-FC(65-128)	 ① Maximum distance between inserts 21mm Contact Layout (Termination Front View)  Panel Mounting Cutout Drawing 

Crimp Contact	male		female		Drawings (mm)																								
	Product Code	Part Number	Product Code	Part Number																									
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	 Marks wire size (mm ²) <table border="1"> <tr><td>Without Groove</td><td>0.14-0.37</td><td>AWG26-22</td></tr> <tr><td>Without Groove</td><td>0.5</td><td>AWG20</td></tr> <tr><td>With 1 Groove</td><td>0.75</td><td>AWG18</td></tr> <tr><td>With 1 Groove</td><td>1</td><td>AWG18</td></tr> <tr><td>With 2 Groove</td><td>1.5</td><td>AWG16</td></tr> <tr><td>With 2 Groove</td><td>2.5</td><td>AWG14</td></tr> <tr><td>With 3 Groove</td><td>3</td><td>AWG12</td></tr> <tr><td>Wide Groove</td><td>4</td><td>AWG12</td></tr> </table> stripping length : 7.5mm Contact resistance ≤ 1mΩ	Without Groove	0.14-0.37	AWG26-22	Without Groove	0.5	AWG20	With 1 Groove	0.75	AWG18	With 1 Groove	1	AWG18	With 2 Groove	1.5	AWG16	With 2 Groove	2.5	AWG14	With 3 Groove	3	AWG12	Wide Groove	4	AWG12
	Without Groove	0.14-0.37	AWG26-22																										
	Without Groove	0.5	AWG20																										
	With 1 Groove	0.75	AWG18																										
	With 1 Groove	1	AWG18																										
	With 2 Groove	1.5	AWG16																										
	With 2 Groove	2.5	AWG14																										
	With 3 Groove	3	AWG12																										
Wide Groove	4	AWG12																											
191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG																										
191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG																										
191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG																										
191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG																										
191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																										
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																										
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																										
gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU																									
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU																									
	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU																									
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU																									
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU																									
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU																									
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU																									
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU																									

For crimp tool and removal tool, see page P25-01



HD Series-Ultra-High Density Insert

Technical Information

Standard: IEC 60664-1, IEC61984

No. of Contact: 7+PE, 8+PE, 15+PE, 25+PE, 40+PE, 50(2×25)+PE, 64+PE, 80(2×40)+PE, 128(2×64)+PE

Insert (HD007, HD015-HD128)

Rated Current 10A
(see current load diagram)

Rated Voltage 250V

Rated Pulse Voltage 4kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 600V

Mating Cycle ≥ 500

Insert (HD008)

Rated Current 10A

Rated Voltage 50V

Rated Pulse Voltage 0.8kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 50V

Mating Cycle ≥ 500 次

Contact

Material Copper Alloy

Plating Gold-plated, Silver-plated

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

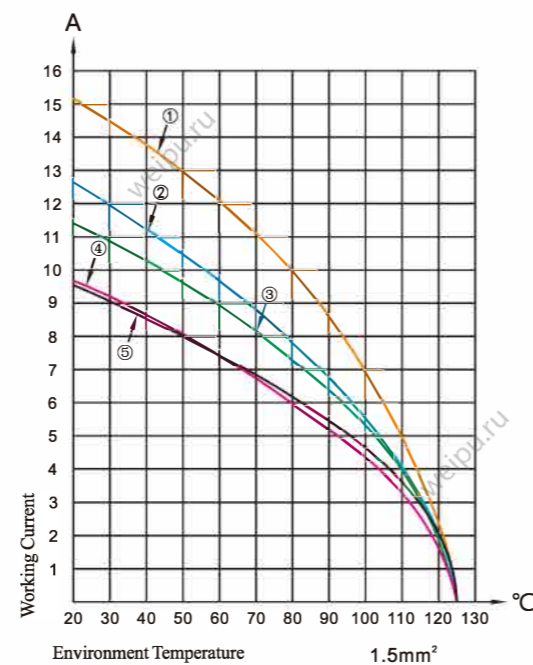
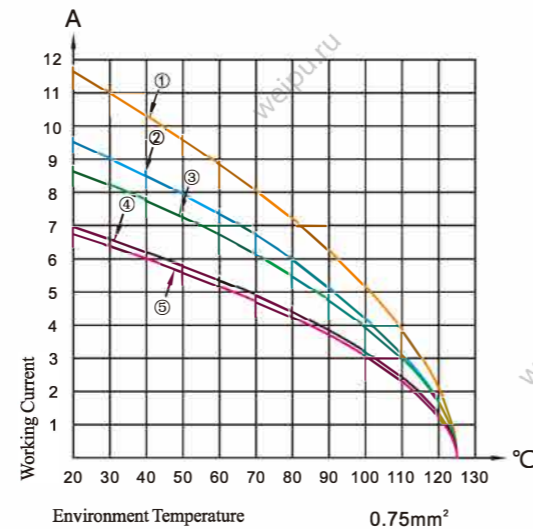
Termination **Crimp Termination**

Wire Size 0.14-2.5 mm² 26-14AWG

stripping length 0.14-1.5 mm² : 8mm
2.5 mm² : 6mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



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

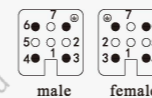
HD Series-High Density Insert

HD series Insert in the state of full pins, and pollution level is 3, its working voltage is 250V

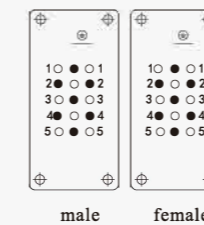
After adjusting the pin layout, it can work up to 500V at pollution level 3

HD series
10A 500V 6KV 3

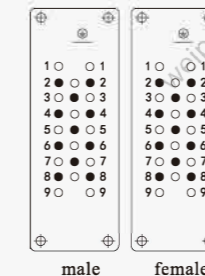
3+⊕



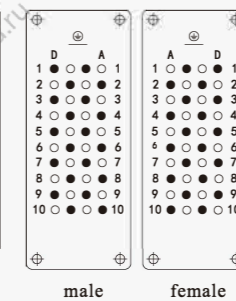
7+⊕



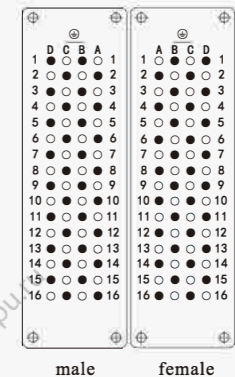
11+⊕



20+⊕



32+⊕



- with pins
- without pins

HD-007 Series-Ultra-High Density Insert

7+ ⊕

10A 250V 4kV 3

Use with 3A hoods/housings, refer to P15-01—P15-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~2.5	male 190 020 007 3000	male HD-007-MC	
		female 190 021 007 3000	female HD-007-FC	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU

silver-plated			
Wire Size	AWG	Ø	stripping length
0.14-0.37mm ²	AWG26-22	0.9	8mm
0.5mm ²	AWG20	1.1	8mm
0.75mm ²	AWG18	1.3	8mm
1mm ²	AWG18	1.45	8mm
1.5mm ²	AWG16	1.75	8mm
2.5mm ²	AWG14	2.25	6mm

Contact resistance ≤ 3mΩ

For crimp tool and removal tool, see page P25-01

HD-008 Series-Ultra-High Density Insert

8+ ⊕

10A 50V 0.8kV 3

Use with 3A hoods/housings, refer to P15-01—P15-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~2.5	male 190 020 008 3000	male HD-008-MC	
		female 190 021 008 3000	female HD-008-FC	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU

silver-plated			
Wire Size	AWG	Ø	stripping length
0.14-0.37mm ²	AWG26-22	0.9	8mm
0.5mm ²	AWG20	1.1	8mm
0.75mm ²	AWG18	1.3	8mm
1mm ²	AWG18	1.45	8mm
1.5mm ²	AWG16	1.75	8mm
2.5mm ²	AWG14	2.25	6mm

Contact resistance ≤ 3mΩ


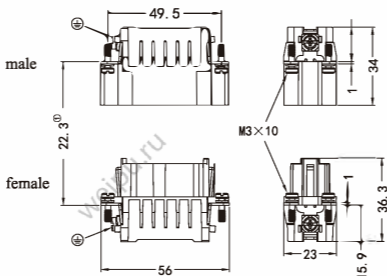
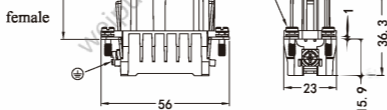
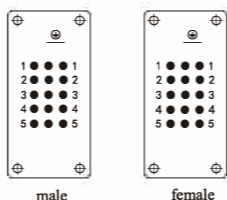
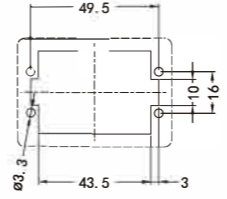
For crimp tool and removal tool, see page P25-01



HD-015 Series-Ultra-High Density Insert

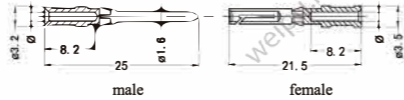
15+⊕

10A 250V 4kV 3

Use with 10A hoods/housings, refer to P15-01—P15-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~2.5	male 190 020 015 3000	male HD-015-MC	
		female 190 021 015 3000	female HD-015-FC	
① Maximum distance between inserts 24mm				
Contact Layout (Termination Front View)				
				
Panel Mounting Cutout Drawing				
				

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU



silver-plated	ø	stripping length
0.14-0.37mm ² AWG26-22	0.9	8mm
0.5mm ² AWG20	1.1	8mm
0.75mm ² AWG18	1.3	8mm
1mm ² AWG18	1.45	8mm
1.5mm ² AWG16	1.75	8mm
2.5mm ² AWG14	2.25	6mm

Contact resistance ≤ 3mΩ


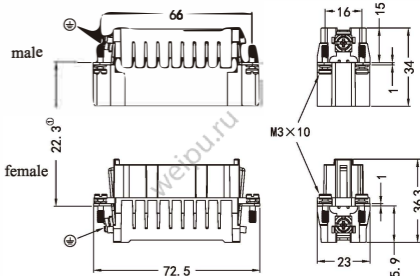
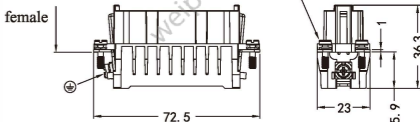
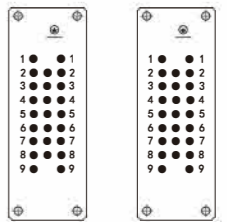
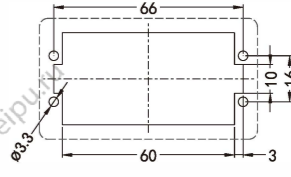
For crimp tool and removal tool, see page P25-01



HD-025 Series-Ultra-High Density Insert

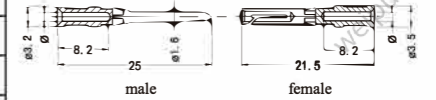
25+⊕

10A 250V 4kV 3

Use with 16A hoods/housings, refer to P17-01—P17-02

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~2.5	male 190 020 025 3000	male HD-025-MC	
		female 190 021 025 3000	female HD-025-FC	
① Maximum distance between inserts 24mm				
Contact Layout (Termination Front View)				
				
Panel Mounting Cutout Drawing				
				

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU



silver-plated	ø	stripping length
0.14-0.37mm ² AWG26-22	0.9	8mm
0.5mm ² AWG20	1.1	8mm
0.75mm ² AWG18	1.3	8mm
1mm ² AWG18	1.45	8mm
1.5mm ² AWG16	1.75	8mm
2.5mm ² AWG14	2.25	6mm

Contact resistance ≤ 3mΩ


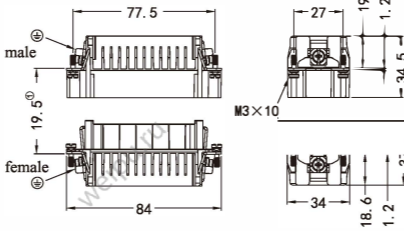
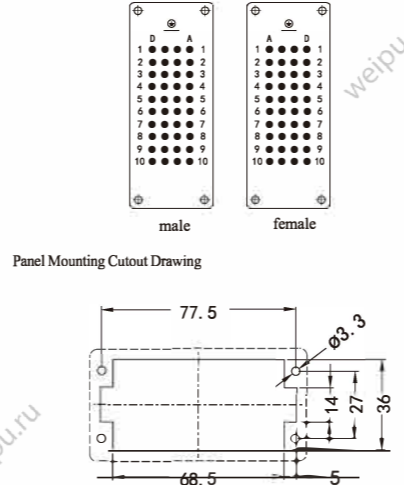
For crimp tool and removal tool, see page P25-01



HD-040 Series-Ultra-High Density Insert

40+⊕

10A 250V 4kV 3

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~2.5	male 190 020 040 3000	male HD-040-MC	
		female 190 021 040 3000	female HD-040-FC	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU


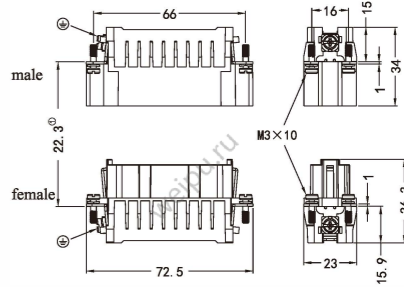
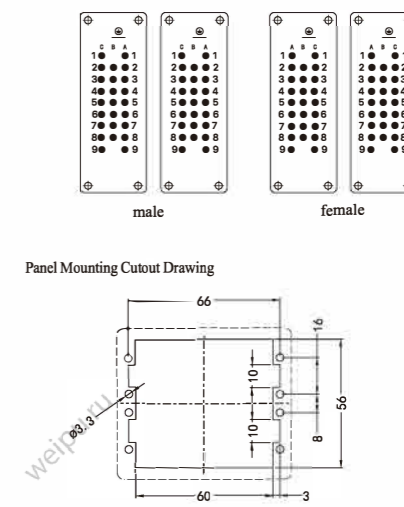
For crimp tool and removal tool, see page P25-01



HD-050 Series-Ultra-High Density Insert

50+⊕

10A 250V 4kV 3

Use with 32A hoods/housings, refer to P23-01—P23-03

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
冷压压接 接插件表面处理: 镀银、镀金 	0.14~2.5	male 190 020 025 3000 190 020 025 3010	male HD-025-MC HD-025-MC(26-50)	
		female 190 021 025 3000 190 021 025 3010	female HD-025-FC HD-025-FC(26-50)	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU


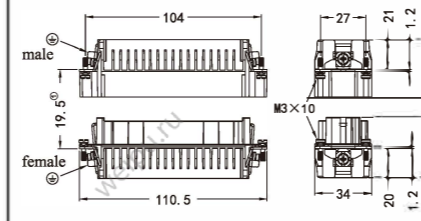
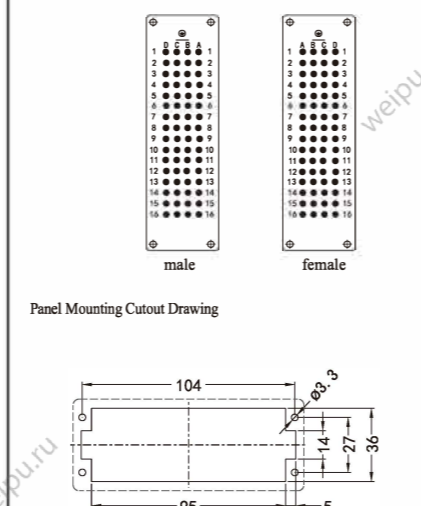
For crimp tool and removal tool, see page P25-01



HD-064 Series-Ultra-High Density Insert

64+⊕

10A 250V 4kV 3

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~2.5	male 190 020 064 3000	male HD-064-MC	
		female 190 021 064 3000	female HD-064-FC	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU

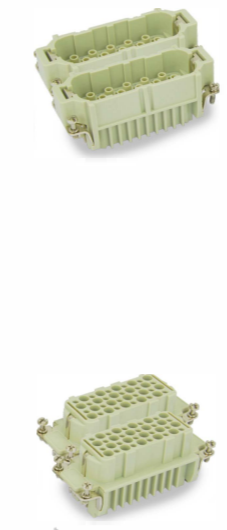
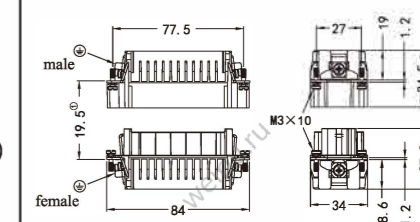
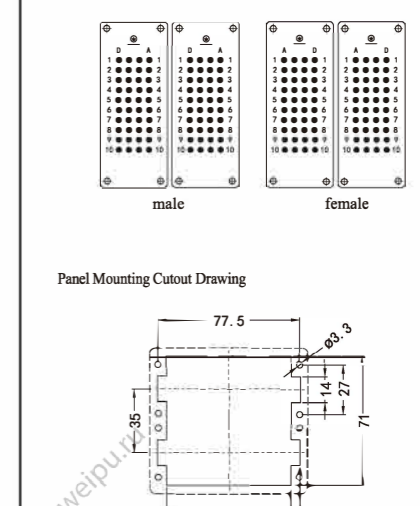
For crimp tool and removal tool, see page P25-01



HD-080 Series-Ultra-High Density Insert

80+⊕

10A 250V 4kV 3

Use with 32B hoods/housings, refer to P23-01—P23-03

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~2.5	male 190 020 040 3000 190 020 040 3010	male HD-040-MC HD-040-MC(41-80)	
		female 190 021 040 3000 190 021 040 3010	female HD-040-FC HD-040-FC(41-80)	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU

For crimp tool and removal tool, see page P25-01



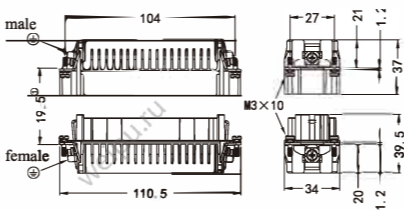
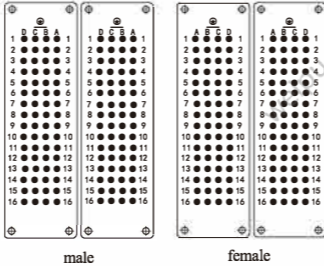
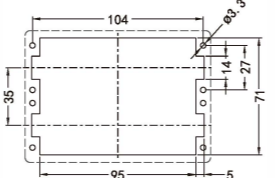
HD-128 Series-Ultra-High Density Insert



128+⊕

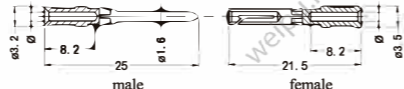
10A 250V 4kV 3

Use with 48B hoods/housings, refer to P24-01—P24-02

06

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated  	0.14~2.5	male 190 020 064 3000 190 020 064 3010	male HD-064-MC HD-064-MC(65-128)	 ① Maximum distance between inserts 21mm Contact Layout (Termination Front View)  Panel Mounting Cutout Drawing 
		female 190 021 064 3000 190 021 064 3010	female HD-064-FC HD-064-FC(65-128)	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU



silver-plated	Ø	stripping length
0.14-0.37mm ²	AWG26-22	0.9
0.5mm ²	AWG20	1.1
0.75mm ²	AWG18	1.3
1mm ²	AWG18	1.45
1.5mm ²	AWG16	1.75
2.5mm ²	AWG14	2.25

Contact resistance ≤ 3mΩ

For crimp tool and removal tool, see page P25-01



HDD Series-Ultra-High Density Insert

Technical Information

Standard: IEC 60664-1、IEC61984
 No. of Contact: 24+PE、42+PE、72+PE、108+PE、
 144 (2×72)+PE、216 (2×108)+PE

Insert

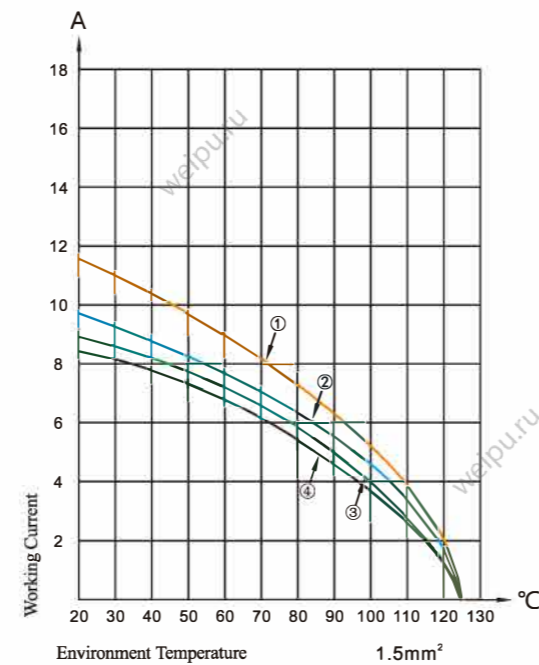
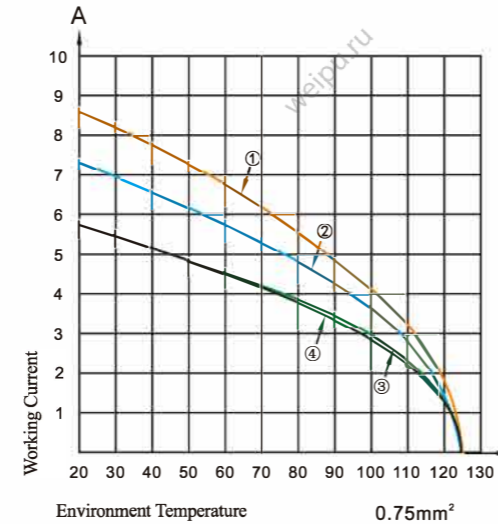
Rated Current	10A (see current load diagram)
Rated Voltage	250V
Rated Pulse Voltage	4kV
Pollution Degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Complies with UL/CSA rated voltage	600V
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 3m\Omega$
Termination	Crimp Termination
Wire Size	0.14-2.5 mm ² 26-14AWG
Stripping Length	0.14-1.5 mm ² : 8mm 2.5 mm ² : 6mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2

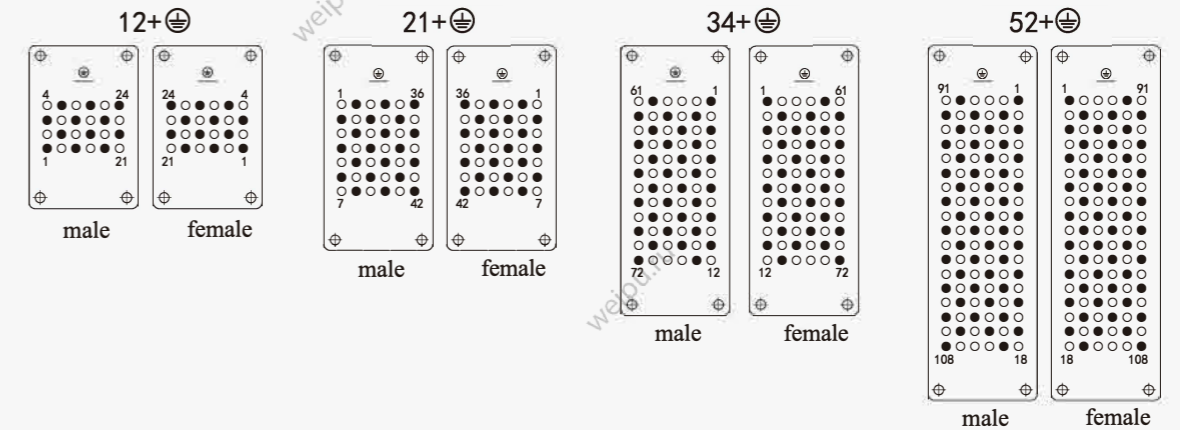


- ① HDD-024
- ② HDD-042
- ③ HDD-072
- ④ HDD-108

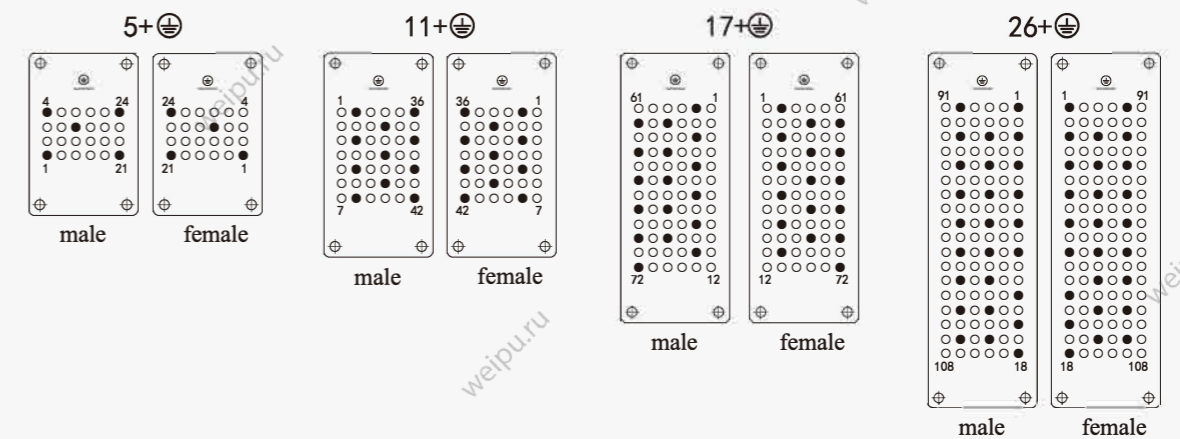
HDD Series-Ultra-High Density Insert

HDD series Insert in the state of full pins, and pollution level is 3, its working voltage is 250V
 After adjusting the pin layout, it can work up to 500V at pollution level 3

10A 400V 6KV 3



10A 500V 6KV 3


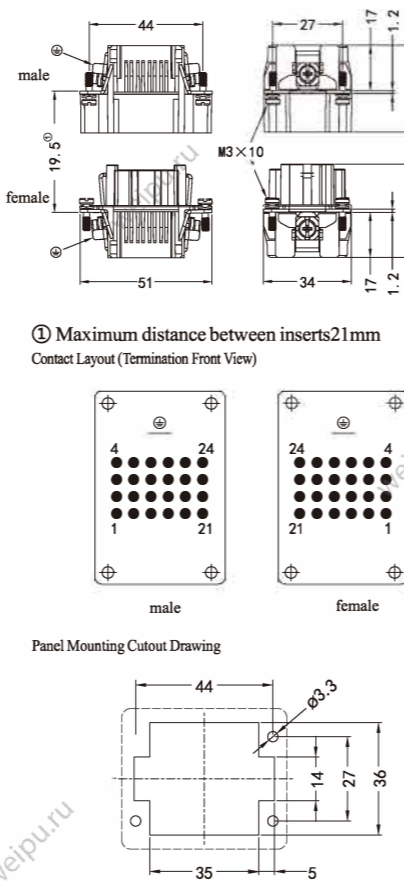




- with pins
- without pins

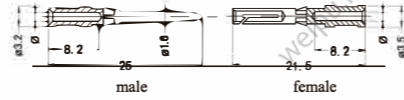
HDD-024 Series-Ultra-High Density Insert

24+ \oplus
10A 250V 4kV 3

Use with 6B hoods/housings, refer to P19-01—P19-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~2.5	male 190 030 024 3000	male HDD-024-MC	 <p>① Maximum distance between inserts 21mm Contact Layout (Termination Front View)</p> <p>Panel Mounting Cutout Drawing</p>
		female 190 031 024 3000	female HDD-024-FC	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU



silver-plated	ø	stripping length
0.14-0.37mm ² AWG26-22	0.9	8mm
0.5mm ² AWG20	1.1	8mm
0.75mm ² AWG18	1.3	8mm
1mm ² AWG18	1.45	8mm
1.5mm ² AWG16	1.75	8mm
2.5mm ² AWG14	2.25	6mm


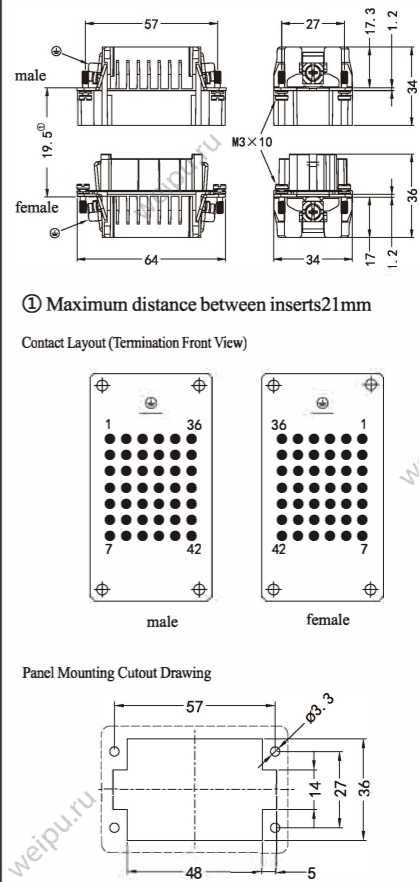
Contact resistance $\leq 3m\Omega$



For crimp tool and removal tool, see page P25-01

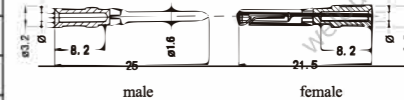
HDD-042 Series-Ultra-High Density Insert

42+ \oplus
10A 250V 4kV 3

Use with 10B hoods/housings, refer to P20-01—P20-08

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~2.5	male 190 030 042 3000	male HDD-042-MC	 <p>① Maximum distance between inserts 21mm Contact Layout (Termination Front View)</p> <p>Panel Mounting Cutout Drawing</p>
		female 190 031 042 3000	female HDD-042-FC	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU



silver-plated	ø	stripping length
0.14-0.37mm ² AWG26-22	0.9	8mm
0.5mm ² AWG20	1.1	8mm
0.75mm ² AWG18	1.3	8mm
1mm ² AWG18	1.45	8mm
1.5mm ² AWG16	1.75	8mm
2.5mm ² AWG14	2.25	6mm

Contact resistance $\leq 3m\Omega$

For crimp tool and removal tool, see page P25-01

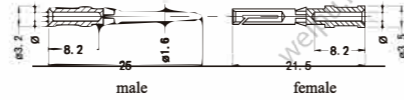
HDD-072 Series-Ultra-High Density Insert

72+ \oplus
10A 250V 4kV 3

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~2.5	male 190 030 072 3000	male HDD-072-MC	<p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p> <p>Panel Mounting Cutout Drawing</p>
		female 190 031 072 3000	female HDD-072-FC	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU



silver-plated	Ø	stripping length
0.14-0.37mm ² AWG26-22	0.9	8mm
0.5mm ² AWG20	1.1	8mm
0.75mm ² AWG18	1.3	8mm
1mm ² AWG18	1.45	8mm
1.5mm ² AWG16	1.75	8mm
2.5mm ² AWG14	2.25	6mm

Contact resistance ≤ 3mΩ

For crimp tool and removal tool, see page P25-01

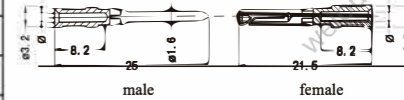
HDD-108 Series-Ultra-High Density Insert

108+ \oplus
10A 250V 4kV 3

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~2.5	male 190 030 108 3000	male HDD-108-MC	<p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p> <p>Panel Mounting Cutout Drawing</p>
		female 190 031 108 3000	female HDD-108-FC	

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU



silver-plated	Ø	stripping length
0.14-0.37mm ² AWG26-22	0.9	8mm
0.5mm ² AWG20	1.1	8mm
0.75mm ² AWG18	1.3	8mm
1mm ² AWG18	1.45	8mm
1.5mm ² AWG16	1.75	8mm
2.5mm ² AWG14	2.25	6mm

Contact resistance ≤ 3mΩ

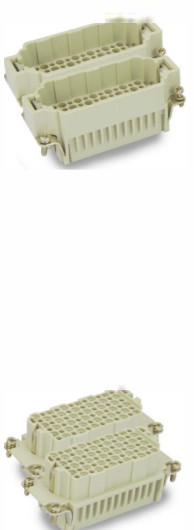
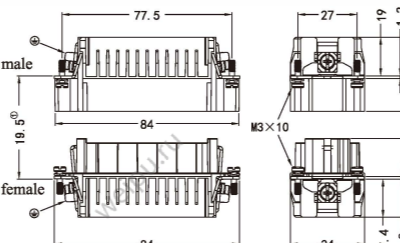
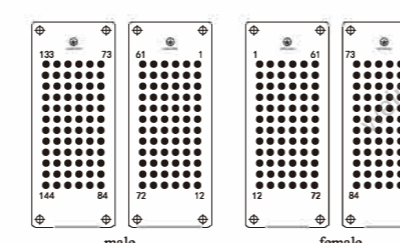
For crimp tool and removal tool, see page P25-01



HDD-144 Series-Ultra-High Density Insert

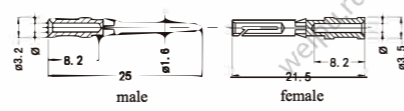
144+⊕

10A 250V 4kV 3

Use with 32B hoods/housings, refer to P23-01—P23-03

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~2.5	male 190 030 072 3000 190 030 072 3010	male HDD-072-MC HDD-072-MC(73-144)	
		female 190 031 072 3000 190 031 072 3010	female HDD-072-FC HDD-072-FC(73-144)	
<p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p> <p>Panel Mounting Cutout Drawing</p>				

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU



silver-plated	⊘	stripping length
0.14-0.37mm ²	AWG26-22	0.9
0.5mm ²	AWG20	1.1
0.75mm ²	AWG18	1.3
1mm ²	AWG18	1.45
1.5mm ²	AWG16	1.75
2.5mm ²	AWG14	2.25

Contact resistance ≤ 3mΩ

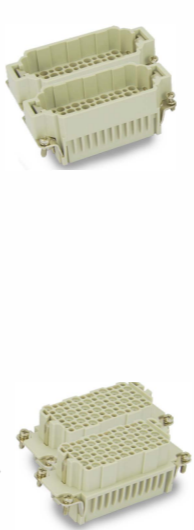
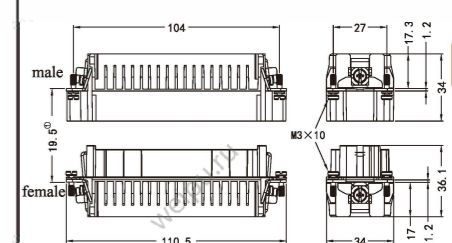
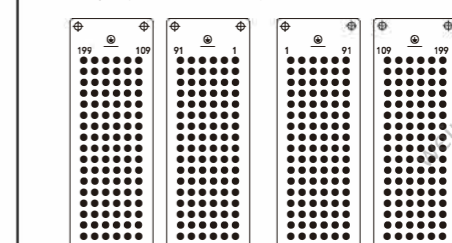
For crimp tool and removal tool, see page P25-01



HDD-216 Series-Ultra-High Density Insert

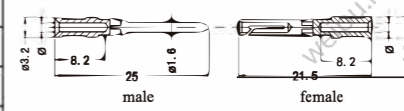
216+⊕

10A 250V 4kV 3

Use with 48B hoods/housings, refer to P24-01—P24-02

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated 	0.14~2.5	male 190 030 108 3000 190 030 108 3010	male HDD-108-MC HDD-108-MC(109-216)	
		female 190 031 108 3000 190 031 108 3010	female HDD-108-FC HDD-108-FC(109-216)	
<p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p> <p>Panel Mounting Cutout Drawing</p>				

Crimp Contact	male		female	
	Product Code	Part Number	Product Code	Part Number
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU



silver-plated	⊘	stripping length
0.14-0.37mm ²	AWG26-22	0.9
0.5mm ²	AWG20	1.1
0.75mm ²	AWG18	1.3
1mm ²	AWG18	1.45
1.5mm ²	AWG16	1.75
2.5mm ²	AWG14	2.25

Contact resistance ≤ 3mΩ

For crimp tool and removal tool, see page P25-01

HSB Series-High Current Insert

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 6+PE、12+PE

Insert

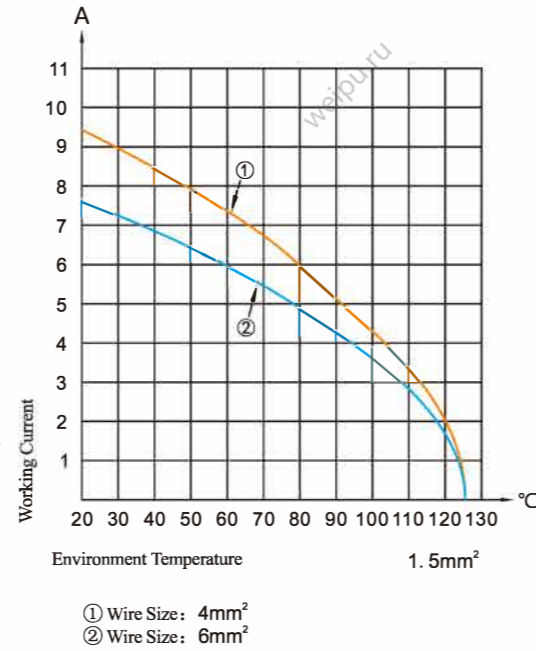
Rated Current	35A (see current load diagram)
Rated Voltage	—Pole-to-ground rated voltage: 400V —Pole-to-pole rated voltage: 690V —Optional rated voltage: 500V
Rated Pulse Voltage	6kV
Pollution Degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Complies with UL/CSA rated voltage	600V
Mating Cycle	≥ 500

Contact

Material	Copper
Plating	Silver-plated
Contact resistance	$\leq 1m\Omega$
Termination	Screw Termination
Wire Size	1.5-6 mm ² 15-9AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2


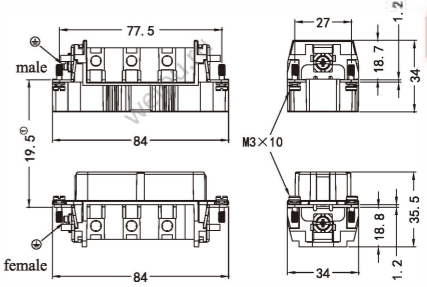
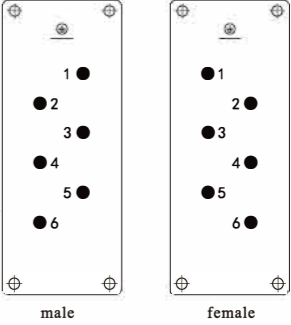

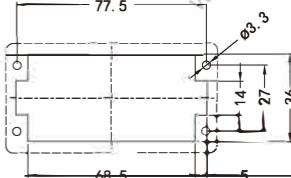


HSB-006 Series-High Current Insert

6+⊕

35A 400/690V 6kV 3
35A 500V 6kV 3

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated 	1.5~6	male 1900800062000	male HSB-006-M	 ① Maximum distance between inserts 21mm stripping length: 11.5mm Torque: 1.2N·m Contact Layout (Termination Front View) 
		female 1900810062000	female HSB-006-F	Panel Mounting Cutout Drawing 


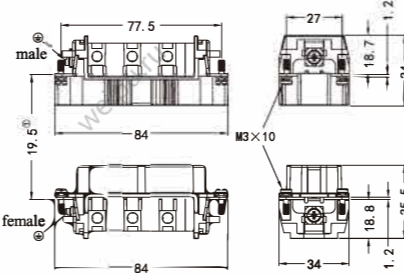
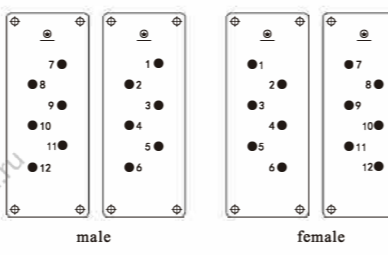

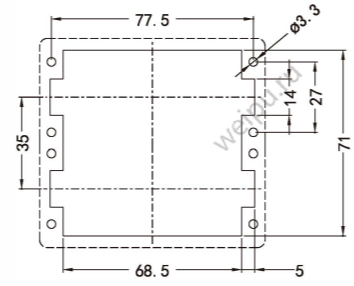
HSB-012 Series-High Current Insert

12+⊕

35A 400/690V 6kV 3

35A 500V 6kV 3

Use with 32B hoods/housings, refer to P23-01—P23-03

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
<p>Screw Termination Contact surface: silver-plated</p> 	1.5-6	male 190 080 006 2000 190 080 006 2010	male HSB-006-M HSB-006-M(7-12)	 <p>① Maximum distance between inserts 21mm stripping length: 11.5mm Torque: 1.2N·m</p> <p>Contact Layout (Termination Front View)</p> 
		female 190 081 006 2000 190 081 006 2010	female HSB-006-F HSB-006-F(7-12)	<p>Panel Mounting Cutout Drawing</p> 

07



HK-004/8 Series- Combination Insert

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: Power: 4+PE Signal: 8

Insert :Power (4+PE)

Rated Current 80A

Insert :Signal 8

Rated Current	16A
Rated Voltage	400V
Rated Pulse Voltage	6kV
Pollution Degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 600V

Mating Cycle ≥ 500

Contact

Material	Copper Alloy
Plating	Silver-plated
Contact resistance	Power: $\leq 0.3m\Omega$
Contact resistance	Signal: $\leq 1m\Omega$

Termination **power screw termination**

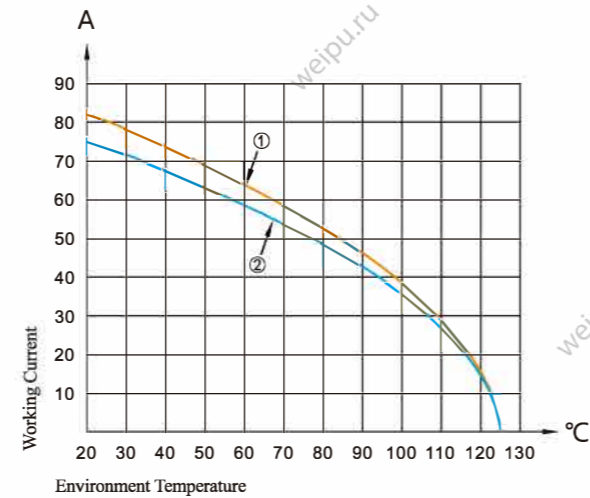
Wire Size 1.5-16mm² 15-6AWG

signal screw termination

Wire Size 0.5-2.5mm² 20-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2

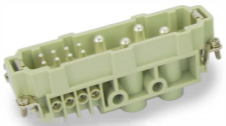
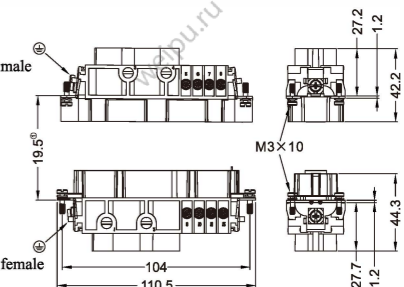
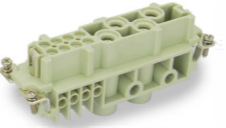
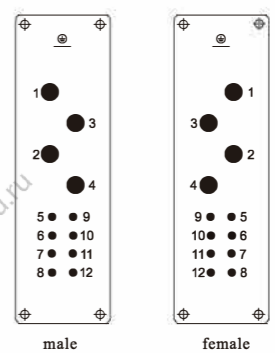


- ① wire size: 16mm²
- ② wire size: 10mm²

HK-004/8 Series- Combination Insert

4+⊕
80A 400V 6kV 3
+8 signal pin
16A 400V 6kV 3

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)																		
Screw Termination Contact surface: silver-plated																						
		male 190 060 012 2000	male HK-004/8-M																			
	Power 1.5-16			① Maximum distance between inserts 21mm																		
	Signal 0.5-2.5			Contact Layout (Termination Front View)																		
		female 190 061 012 2000	female HK-004/8-F																			
				<table border="1"> <thead> <tr> <th>wire size</th> <th>power pin locking torque</th> <th>stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5mm²</td> <td>1.2N·m</td> <td>14mm</td> </tr> <tr> <td>2.5mm²</td> <td>2N·m</td> <td>14mm</td> </tr> <tr> <td>4mm²</td> <td>3N·m</td> <td>14mm</td> </tr> <tr> <td>6mm²</td> <td>3N·m</td> <td>14mm</td> </tr> <tr> <td>16mm²</td> <td>3N·m</td> <td>14mm</td> </tr> </tbody> </table>	wire size	power pin locking torque	stripping length	1.5mm ²	1.2N·m	14mm	2.5mm ²	2N·m	14mm	4mm ²	3N·m	14mm	6mm ²	3N·m	14mm	16mm ²	3N·m	14mm
wire size	power pin locking torque	stripping length																				
1.5mm ²	1.2N·m	14mm																				
2.5mm ²	2N·m	14mm																				
4mm ²	3N·m	14mm																				
6mm ²	3N·m	14mm																				
16mm ²	3N·m	14mm																				
				signal pin stripping length: 7.5mm Torque: 0.5N·m																		

HK-004/0 Series- Combination Insert

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 4+PE

Power Insert: (4+PE)

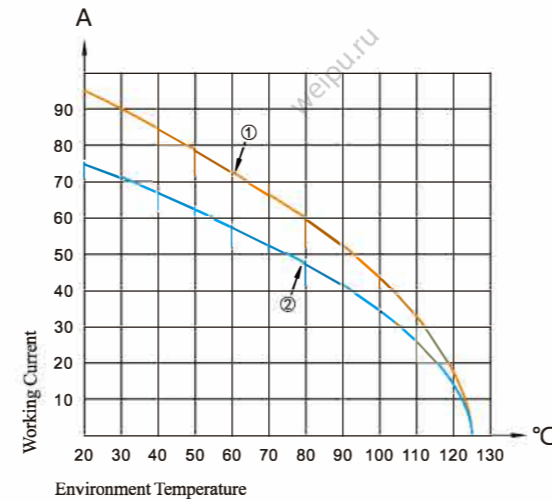
Rated Current	80A
Rated Voltage	830V
Rated Pulse Voltage	8kV
Pollution Degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Complies with UL/CSA rated voltage	600V/300V
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Silver-plated
Contact resistance	$\leq 0.3m\Omega$
Termination	Screw Termination
Wire Size	1.5-16mm ² 15-6AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2


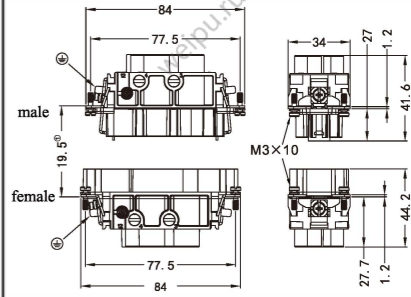
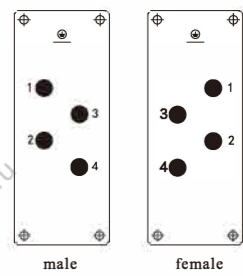



- ① wire size: 16mm²
- ② wire size: 10mm²

HK-004/0 Series- Combination Insert

4+⊕
80A 830V 8kV 3

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)																					
Screw Termination Contact surface: silver-plated																									
	1.5-16	male 190 060 004 2000	male HK-004/0-M	 <p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p>  <table border="1"> <thead> <tr> <th colspan="3">power pin</th> </tr> <tr> <th>wire size</th> <th>locking torque</th> <th>stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5mm²</td> <td>1.2N·m</td> <td>14mm</td> </tr> <tr> <td>2.5mm²</td> <td>2N·m</td> <td>14mm</td> </tr> <tr> <td>4mm²</td> <td>3N·m</td> <td>14mm</td> </tr> <tr> <td>6mm²</td> <td>3N·m</td> <td>14mm</td> </tr> <tr> <td>16mm²</td> <td>3N·m</td> <td>14mm</td> </tr> </tbody> </table>	power pin			wire size	locking torque	stripping length	1.5mm ²	1.2N·m	14mm	2.5mm ²	2N·m	14mm	4mm ²	3N·m	14mm	6mm ²	3N·m	14mm	16mm ²	3N·m	14mm
power pin																									
wire size	locking torque	stripping length																							
1.5mm ²	1.2N·m	14mm																							
2.5mm ²	2N·m	14mm																							
4mm ²	3N·m	14mm																							
6mm ²	3N·m	14mm																							
16mm ²	3N·m	14mm																							
		female 190 061 004 2000	female HK-004/0-F																						

HK-004/2 Series- Combination Insert

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: Power: 4+PE Signal: 2

Insert : Power (4+PE)

Rated Current 80A

Rated Voltage 830V

Rated Pulse Voltage 8kV

Insert : Signal 2

Rated Current 16A

Rated Voltage 400V

Rated Pulse Voltage 6kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 600V/300V

Mating Cycle ≥ 500

Contact

Material Copper Alloy

Plating Silver-plated

Power Contact Resistance $\leq 0.3 \text{ m}\Omega$

Signal Contact Resistance $\leq 1 \text{ m}\Omega$

Termination **power screw termination**

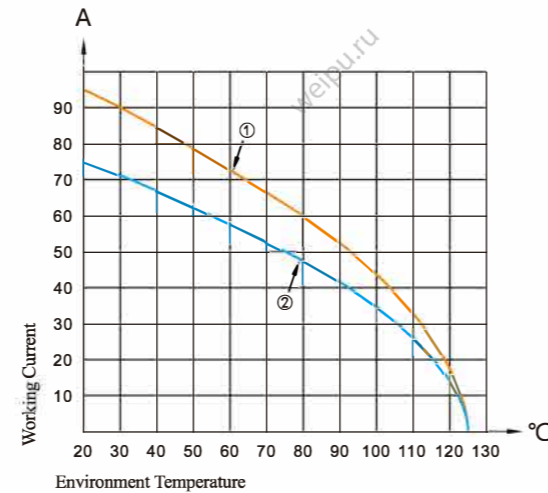
Wire Size 1.5-16mm² 15-6AWG

signal screw termination

Wire Size 0.5-2.5mm² 20-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① wire size: 16mm²
② wire size: 10mm²

HK-004/2 Series- Combination Insert


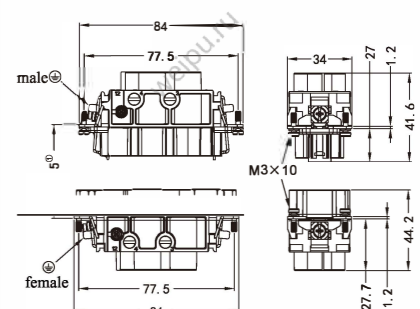
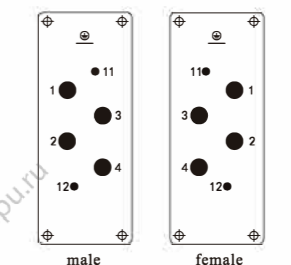

4+⊕

80A 830V 8kV 3

+2 signal pin

16A 400V 6kV 3

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)																					
Screw Termination Contact surface: silver-plated																									
		male 190 060 006 2000	male HK-004/2-M	 <p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p> 																					
	Power 1.5-16																								
	Signal 0.5-2.5																								
		female 190 061 006 2000	female HK-004/2-F	<table border="1"> <thead> <tr> <th colspan="3">power pin</th> </tr> <tr> <th>wire size</th> <th>locking torque</th> <th>stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5mm²</td> <td>1.2N·m</td> <td>14mm</td> </tr> <tr> <td>2.5mm²</td> <td>2N·m</td> <td>14mm</td> </tr> <tr> <td>4mm²</td> <td>3N·m</td> <td>14mm</td> </tr> <tr> <td>6mm²</td> <td>3N·m</td> <td>14mm</td> </tr> <tr> <td>16mm²</td> <td>3N·m</td> <td>14mm</td> </tr> </tbody> </table> <p>signal pin stripping length: 7.5mm Torque: 0.5N·m</p>	power pin			wire size	locking torque	stripping length	1.5mm ²	1.2N·m	14mm	2.5mm ²	2N·m	14mm	4mm ²	3N·m	14mm	6mm ²	3N·m	14mm	16mm ²	3N·m	14mm
power pin																									
wire size	locking torque	stripping length																							
1.5mm ²	1.2N·m	14mm																							
2.5mm ²	2N·m	14mm																							
4mm ²	3N·m	14mm																							
6mm ²	3N·m	14mm																							
16mm ²	3N·m	14mm																							

HWK-006/6 Series- Combination Insert

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: Power: 6+PE Signal: 6

Insert: Power (6+PE)

Rated Current 40A

Rated Voltage 690V

Rated Pulse Voltage 8kV

Insert: Signal 6

Rated Current 16A

Rated Voltage 400V

Rated Pulse Voltage 6kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 600V

Mating Cycle ≥ 500 次

Contact

Material Copper Alloy

Plating Silver-plated

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

Termination **power screw termination**

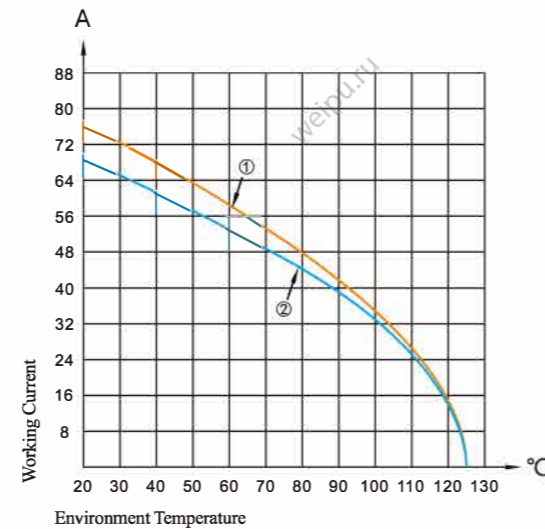
Wire Size 4-10mm² 11-7AWG

signal screw termination

Wire Size 1-2.5mm² 17-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① wire size: 16mm²
- ② wire size: 10mm²

HWK-006/6 Series- Combination Insert


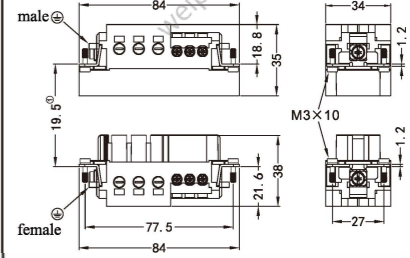
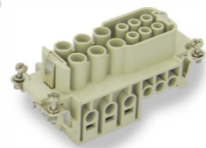
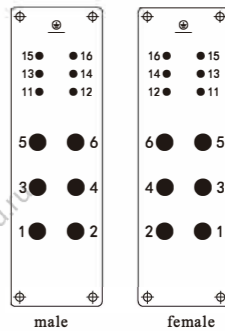
6+⊕

40A 690V 8kV 3

+6 signal pin

16A 400V 6kV 3

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)																					
Screw Termination Contact surface: silver-plated																									
		male 190 060 012 2100	male HWK-006/6-M																						
	Power 4-10			① Maximum distance between inserts 21mm																					
	Signal 1-2.5			Contact Layout (Termination Front View)																					
		female 190 061 012 2100	female HWK-006/6-F																						
				<table border="1"> <thead> <tr> <th colspan="3">power pin</th> </tr> <tr> <th>wire size</th> <th>locking torque</th> <th>stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5mm²</td> <td>1.2N·m</td> <td>14mm</td> </tr> <tr> <td>2.5mm²</td> <td>2N·m</td> <td>14mm</td> </tr> <tr> <td>4mm²</td> <td>3N·m</td> <td>14mm</td> </tr> <tr> <td>6mm²</td> <td>3N·m</td> <td>14mm</td> </tr> <tr> <td>16mm²</td> <td>3N·m</td> <td>14mm</td> </tr> </tbody> </table> <p>signal pin stripping length: 7.5mm Torque: 0.5N·m</p>	power pin			wire size	locking torque	stripping length	1.5mm ²	1.2N·m	14mm	2.5mm ²	2N·m	14mm	4mm ²	3N·m	14mm	6mm ²	3N·m	14mm	16mm ²	3N·m	14mm
power pin																									
wire size	locking torque	stripping length																							
1.5mm ²	1.2N·m	14mm																							
2.5mm ²	2N·m	14mm																							
4mm ²	3N·m	14mm																							
6mm ²	3N·m	14mm																							
16mm ²	3N·m	14mm																							

HK-008/24 Series- Combination Insert

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: Power: 8+PE Signal: 24

Insert: Power (8+PE)

Rated Current	16A
Rated Voltage	Pole-to-ground: 230V Pole-to-pole: 400V
Rated Pulse Voltage	4kV

Insert: Signal 24

Rated Current	10A
Rated Voltage	160V
Rated Pulse Voltage	2.5kV
Pollution Degree	3

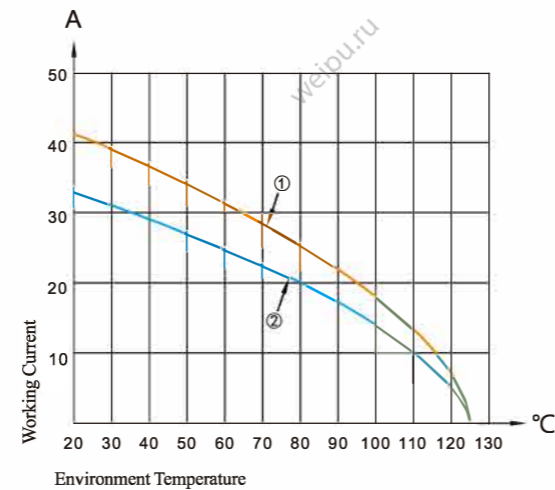
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Complies with UL/CSA rated voltage	600V/300V
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Silver-plated
Power Contact Resistance	$\leq 1m\Omega$
Signal Contact Resistance	$\leq 3m\Omega$
Termination	power screw termination
Wire Size	0.14-4mm ² 26-11AWG
	signal screw termination
Wire Size	0.14-2.5mm ² 26-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① wire size: 4mm²
② wire size: 2.5mm²

HK-008/24 Series- Combination Insert

8+⊕

16A 230/400V 4kV 3

+24 signal pin

10A 160V 2.5kV 3

Use with 18B hoods/housings, refer to P20-01—P20-08

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	Power 0.14-4	male 190 06 0 032 3000	male HK-008/24-MC	
	Signal 0.14-2.5	female 190 06 1 032 3000	female HK-008/24-FC	

Crimp Contact	male		female		Drawings (mm)																											
	Product Code	Part Number	Product Code	Part Number																												
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG																												
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG																												
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG																												
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG																												
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG																												
gold-plated	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG	<table border="1"> <thead> <tr> <th>wire size</th> <th>ø</th> <th>stripping length</th> </tr> </thead> <tbody> <tr><td>0.14-0.37mm²</td><td>AWG26-22</td><td>0.9</td><td>8mm</td></tr> <tr><td>0.5mm²</td><td>AWG20</td><td>1.1</td><td>8mm</td></tr> <tr><td>0.75mm²</td><td>AWG18</td><td>1.3</td><td>8mm</td></tr> <tr><td>1mm²</td><td>AWG17</td><td>1.45</td><td>8mm</td></tr> <tr><td>1.5mm²</td><td>AWG15</td><td>1.75</td><td>8mm</td></tr> <tr><td>2.5mm²</td><td>AWG13</td><td>2.25</td><td>6mm</td></tr> </tbody> </table>	wire size	ø	stripping length	0.14-0.37mm ²	AWG26-22	0.9	8mm	0.5mm ²	AWG20	1.1	8mm	0.75mm ²	AWG18	1.3	8mm	1mm ²	AWG17	1.45	8mm	1.5mm ²	AWG15	1.75	8mm	2.5mm ²	AWG13	2.25	6mm
	wire size	ø	stripping length																													
	0.14-0.37mm ²	AWG26-22	0.9	8mm																												
	0.5mm ²	AWG20	1.1	8mm																												
	0.75mm ²	AWG18	1.3	8mm																												
1mm ²	AWG17	1.45	8mm																													
1.5mm ²	AWG15	1.75	8mm																													
2.5mm ²	AWG13	2.25	6mm																													
191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU																													
191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU																													
191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU																													
191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU																													
191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU																													
191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU																													

Crimp Contact	male		female		Drawings (mm)																										
	Product Code	Part Number	Product Code	Part Number																											
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG																											
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For crimp tool and removal tool, see page P25-01

HK-006/36 Series- Combination Insert

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: Power: 6+PE Signal: 36

Insert: Power (6+PE)

Rated Current 40A

Rated Voltage 690V

Rated Pulse Voltage 8kV

Insert: Signal 36

Rated Current 10A

Rated Voltage 160V

Rated Pulse Voltage 2.5kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 600V/300V

Mating Cycle ≥ 500

Contact

Material Copper Alloy

Plating Gold-plated, Silver-plated

Power Contact Resistance $\leq 1\text{m}\Omega$

Signal Contact Resistance $\leq 3\text{m}\Omega$

Termination **power screw termination**

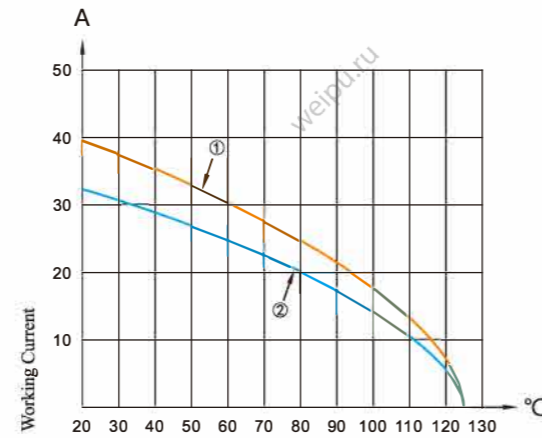
Wire Size 1.5-10mm² 15-7AWG

signal screw termination

Wire Size 0.14-2.5mm² 25-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



Environment Temperature

- ① wire size: 6mm²
- ② wire size: 4mm²

HK-006/36 Series- Combination Insert

6+⊕

40A 690V 8kV 3

+36 signal pin

10A 160V 2.5kV 3

Use with 16B hoods/housings, refer to P201-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	Power 1.5-10	male 1900600423000	male HK-006/36-MC	<p>① Maximum distance between inserts 21mm Contact Layout (Termination Front View)</p>
		female 1900610423000	female HK-006/36-FC	

Crimp Contact	male		female		Drawings (mm)																												
	Product Code	Part Number	Product Code	Part Number																													
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG	<table border="1"> <thead> <tr> <th>wire size</th> <th>AWG</th> <th>ø</th> <th>stripping length</th> </tr> </thead> <tbody> <tr><td>0.14-0.37mm²</td><td>AWG26-22</td><td>0.9</td><td>8mm</td></tr> <tr><td>0.5mm²</td><td>AWG20</td><td>1.1</td><td>8mm</td></tr> <tr><td>0.75mm²</td><td>AWG18</td><td>1.3</td><td>8mm</td></tr> <tr><td>1mm²</td><td>AWG17</td><td>1.45</td><td>8mm</td></tr> <tr><td>1.5mm²</td><td>AWG15</td><td>1.75</td><td>8mm</td></tr> <tr><td>2.5mm²</td><td>AWG13</td><td>2.25</td><td>6mm</td></tr> </tbody> </table> <p>Contact resistance $\leq 3\text{m}\Omega$</p>	wire size	AWG	ø	stripping length	0.14-0.37mm ²	AWG26-22	0.9	8mm	0.5mm ²	AWG20	1.1	8mm	0.75mm ²	AWG18	1.3	8mm	1mm ²	AWG17	1.45	8mm	1.5mm ²	AWG15	1.75	8mm	2.5mm ²	AWG13	2.25	6mm
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Crimp Contact	male		female		Drawings (mm)																								
	Product Code	Part Number	Product Code	Part Number																									
silver-plated	191 100 040 0090	YJ4.0-29.1-1.5AG	191 200 040 0090	YK4.0-23.4-1.5AG	<table border="1"> <thead> <tr> <th>Cross Section</th> <th>AWG</th> <th>ø</th> <th>stripping length</th> </tr> </thead> <tbody> <tr><td>1.5mm²</td><td>15</td><td>1.75</td><td>9mm</td></tr> <tr><td>2.5mm²</td><td>13</td><td>2.25</td><td>9mm</td></tr> <tr><td>4mm²</td><td>11</td><td>2.85</td><td>9.6mm</td></tr> <tr><td>6mm²</td><td>9</td><td>3.5</td><td>9.6mm</td></tr> <tr><td>10mm²</td><td>7</td><td>4.5</td><td>15mm</td></tr> </tbody> </table> <p>stripping length A=15mm for Cable OD\geq5mm stripping length A=18mm for Cable OD\geq6.4mm</p> <p>Contact resistance $\leq 1\text{m}\Omega$</p>	Cross Section	AWG	ø	stripping length	1.5mm ²	15	1.75	9mm	2.5mm ²	13	2.25	9mm	4mm ²	11	2.85	9.6mm	6mm ²	9	3.5	9.6mm	10mm ²	7	4.5	15mm
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gold-plated	191 110 040 0090	YJ4.0-29.1-1.5AU	191 210 040 0090	YK4.0-23.4-1.5AU																									
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For crimp tool and removal tool, see page P25-01

HK-021/2 Series- Combination Insert

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: Power: 12+PE Signal: 12

Insert: Power (12+PE)

Rated Current	40A
Rated Voltage	690V
Rated Pulse Voltage	8kV

Insert: Signal 2

Rated Current	10A
Rated Voltage	250V
Rated Pulse Voltage	4kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 600V/300V

Mating Cycle ≥ 500

Contact

Material Copper Alloy

Plating Gold-plated, Silver-plated

Power Contact Resistance $\leq 1\text{m}\Omega$

Signal Contact Resistance $\leq 3\text{m}\Omega$

Termination **power screw termination**

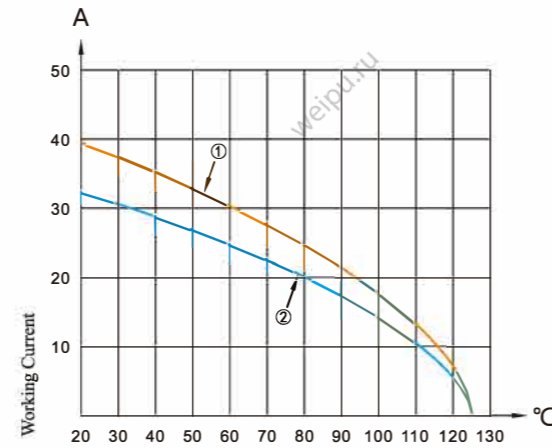
Wire Size 1.5-10mm² 15-7AWG

signal screw termination

Wire Size 0.14-2.5mm² 25-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



Environment Temperature

- ① wire size: 6mm²
- ② wire size: 4mm²

HK-021/2 Series- Combination Insert

12+⊕

40A 690V 8kV 3

+2 signal pin

10A 160V 4kV 3

Use with 16B hoods/housings, refer to P201-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	Power 1.5~10	male 190 060 014 3000	male HK-012/2-MC	<p>① Maximum distance between inserts 21mm Contact Layout (Termination Front View)</p>
		female 190 061 014 3000	female HK-012/2-FC	

Crimp Contact	male		female		Drawings (mm)																											
	Product Code	Part Number	Product Code	Part Number																												
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG	<table border="1"> <thead> <tr> <th>wire size</th> <th>σ</th> <th>stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37mm²</td> <td>AWG26-22</td> <td>0.9</td> <td>8mm</td> </tr> <tr> <td>0.5mm²</td> <td>AWG20</td> <td>1.1</td> <td>8mm</td> </tr> <tr> <td>0.75mm²</td> <td>AWG18</td> <td>1.3</td> <td>8mm</td> </tr> <tr> <td>1mm²</td> <td>AWG17</td> <td>1.45</td> <td>8mm</td> </tr> <tr> <td>1.5mm²</td> <td>AWG15</td> <td>1.75</td> <td>8mm</td> </tr> <tr> <td>2.5mm²</td> <td>AWG13</td> <td>2.25</td> <td>6mm</td> </tr> </tbody> </table> <p>Contact resistance $\leq 3\text{m}\Omega$</p>	wire size	σ	stripping length	0.14-0.37mm ²	AWG26-22	0.9	8mm	0.5mm ²	AWG20	1.1	8mm	0.75mm ²	AWG18	1.3	8mm	1mm ²	AWG17	1.45	8mm	1.5mm ²	AWG15	1.75	8mm	2.5mm ²	AWG13	2.25	6mm
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Crimp Contact	male		female		Drawings (mm)																								
	Product Code	Part Number	Product Code	Part Number																									
silver-plated	191 100 040 0090	YJ4.0-29.1-1.5AG	191 200 040 0090	YK4.0-23.4-1.5AG	<table border="1"> <thead> <tr> <th>Cross Section</th> <th>AWG</th> <th>σ</th> <th>stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5mm²</td> <td>15</td> <td>1.75</td> <td>9mm</td> </tr> <tr> <td>2.5mm²</td> <td>13</td> <td>2.25</td> <td>9mm</td> </tr> <tr> <td>4mm²</td> <td>11</td> <td>2.85</td> <td>9.6mm</td> </tr> <tr> <td>6mm²</td> <td>9</td> <td>3.5</td> <td>9.6mm</td> </tr> <tr> <td>10mm²</td> <td>7</td> <td>4.5</td> <td>15mm</td> </tr> </tbody> </table> <p>stripping length A=15mm for Cable OD\geq5mm stripping length A=18mm for Cable OD\geq6.4mm</p> <p>Contact resistance $\leq 1\text{m}\Omega$</p>	Cross Section	AWG	σ	stripping length	1.5mm ²	15	1.75	9mm	2.5mm ²	13	2.25	9mm	4mm ²	11	2.85	9.6mm	6mm ²	9	3.5	9.6mm	10mm ²	7	4.5	15mm
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For crimp tool and removal tool, see page P25-01

HK-006/6 Series- Combination Insert

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: Power: 6+PE Signal: 6

Insert: Power (6+PE)

Rated Current 100A

Rated Voltage 690V

Rated Pulse Voltage 8kV

Signal

Rated Current 16A

Rated Voltage 400V

Rated Pulse Voltage 6kV

Pollution Degree 3

Complies with UL/CSA rated voltage
Power 600V/600V
Signal 300V/300V

Complies with UL/CSA Rated Current
Power 100A/100A
Signal 16A/15A

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Mating Cycle ≥ 500

Contact

Power

Material Copper Alloy

Plating Silver-plated

Contact resistance $\leq 0.5\text{m}\Omega$

Axial Termination $16\text{-}35\text{mm}^2$ 5-2AWG

Signal

Material Copper Alloy

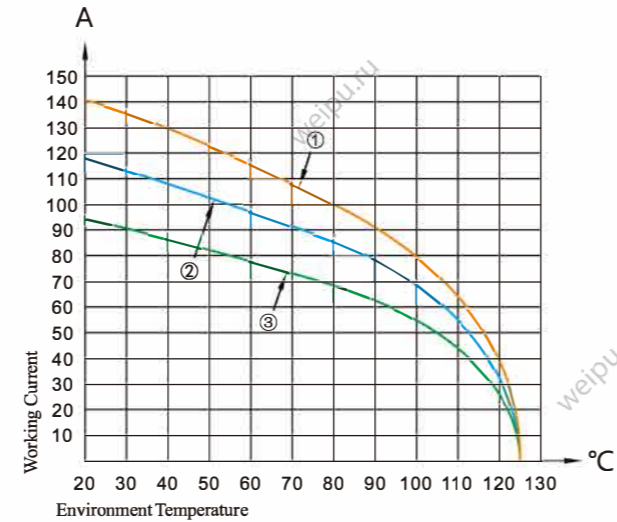
Plating Gold-plated, Silver-plated

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

Axial Termination 0.14-2.5mm² 25-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① wire size: 35mm²
- ② wire size: 25mm²
- ③ wire size: 16mm²

HK-006/6 Series- Combination Insert


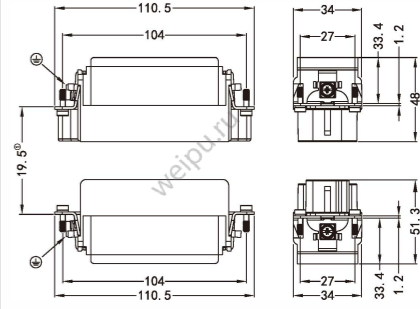

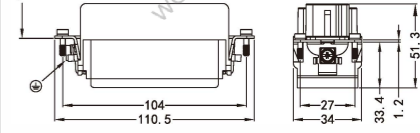
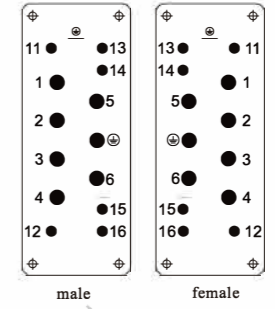
6+ ⊕

100A 690V 8kV 3

+6 signal pin

16A 400V 6kV 3

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated				
	Power 16-35	male 190 060 012 2200	male HK-006/6-M	
	Signal 0.14-2.5	female 190 061 012 2200	female HK-006/6-F	 ① Maximum distance between inserts 21mm Contact Layout (Termination Front View)  Torque 16mm ² : 6 N·m 25mm ² : 7 N·m 35mm ² : 8 N·m

Tools

Hexagon socket wrench	Product Code	Part Number
	193 005 003 0000	HT-4/150

HK-008/0 Series- Combination Insert

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 8+PE

Signal

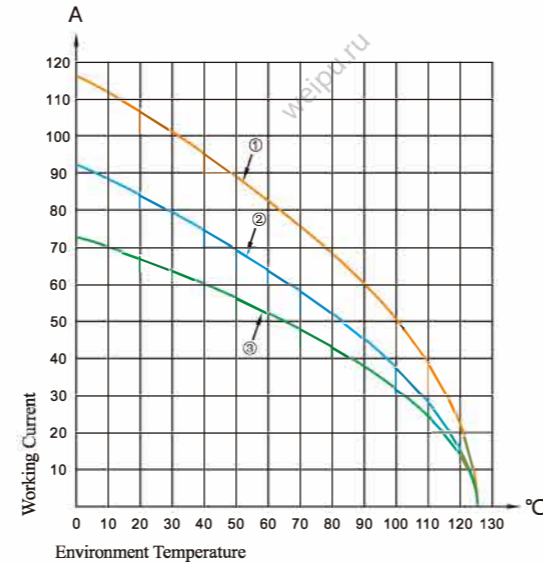
Rated Current	100A
Rated Voltage	690V
Rated Pulse Voltage	8kV
Pollution Degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Complies with UL/CSA rated voltage	600V
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Silver-plated
Contact resistance	$\leq 0.5m\Omega$
Termination	Axial Termination
Wire Size	10-25mm ² 7-3AWG
Hexagon socket wrench	SW4
stripping length	13mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① wire size: 25mm²
- ② wire size: 16mm²
- ③ wire size: 10mm²

HK-008/0 Series- Combination Insert

8+⊕
100A 690V 8kV 3

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated	10-25	male 190 060 008 2000	male HK-008/0-M	<p>① Maximum distance between inserts 21mm</p> <p>Contact Layout (Termination Front View)</p> <p>Torque 10mm²: 6 N·m 16mm²: 7 N·m 25mm²: 8 N·m</p>
		female 190 061 008 2000	female HK-008/0-F	

Tools

Hexagon socket wrench	Product Code	Part Number
	193 005 003 0000	HT-4/150

HEAV Series Insert

Technical Information

Standard: IEC 60664-1、IEC61984

No. of Contact: 6+PE、10+PE、16+PE、24+PE

Insert

Rated Current 16A (see current load diagram)

Rated Voltage 500V

Rated Pulse Voltage 6kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 600V

Mating Cycle ≥ 500

Contact

Material Copper Alloy

Plating Silver-plated

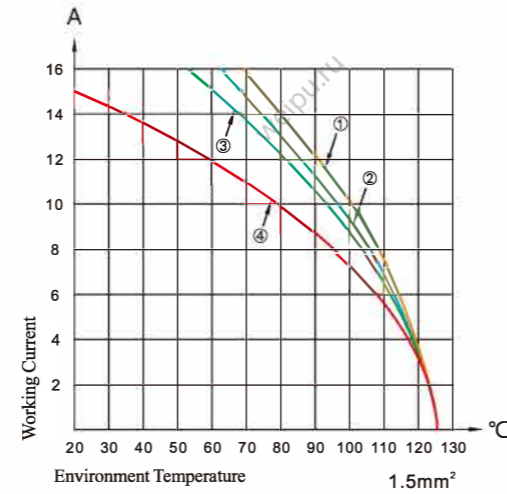
Contact resistance $\leq 4\text{m}\Omega$

Termination **Screw Termination**

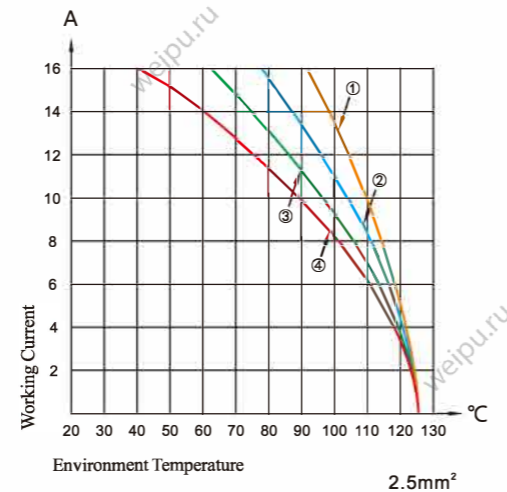
Wire Size 0.2-2.5mm² 24-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① HEAV-006
- ② HEAV-010
- ③ HEAV-016
- ④ HEAV-024



- ① HEAV-006
- ② HEAV-010
- ③ HEAV-016
- ④ HEAV-024

HEAV-006 Series-Extended Insert

6+⊕

16A 500V 6kV 3

Use with 6B hoods/housings, refer to P19-01—P19-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated Left Side	0.2~2.5	male 190 110 006 2020	male HEAV-006-ML	
		female 190 111 006 2020	female HEAV-006-FL	
		male 190 110 006 2030	male HEAV-006-MR	
Screw Termination Contact surface: silver-plated Right Side	0.2~2.5	female 190 111 006 2030	female HEAV-006-FR	


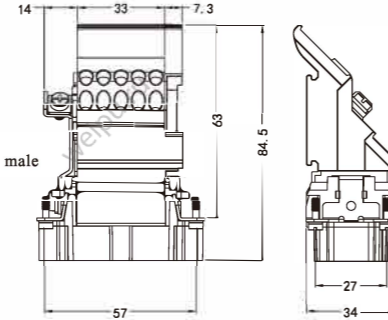
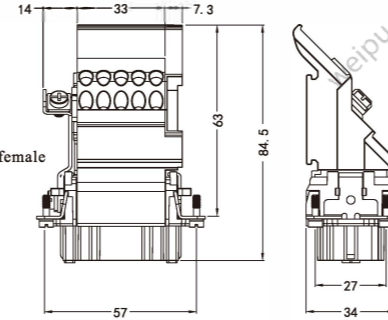

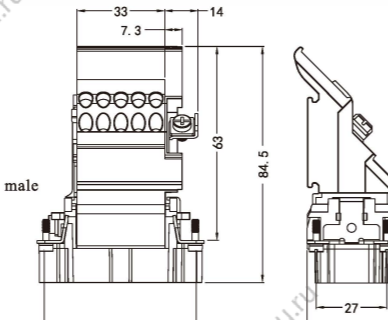
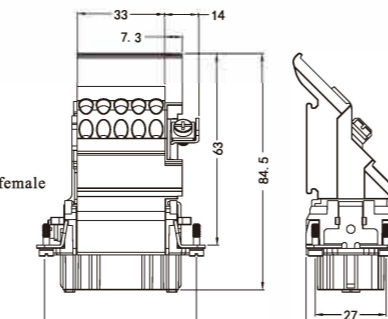
For crimp tool and removal tool, see page P25-01

HEAV-010 Series-Extended Insert

10+ \oplus

16A 500V 6kV 3

Use with 10B hoods/housings, refer to P20-01—P20-08


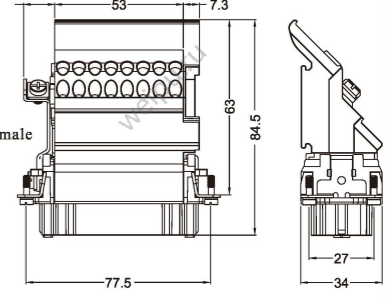
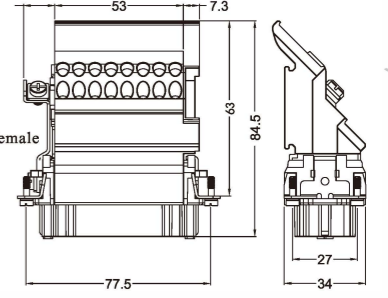

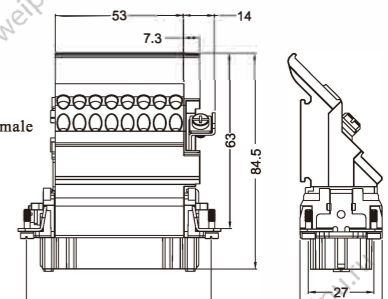
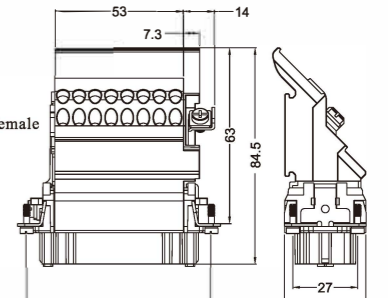
Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated Left Side 	0.2~2.5	male 190 110 010 2020	male HEAV-010-ML	
		female 190 111 010 2020	female HEAV-010-FL	
Screw Termination Contact surface: silver-plated Right Side 	0.2~2.5	male 190 110 010 2030	male HEAV-010-MR	
		female 190 111 010 2030	female HEAV-010-FR	

HEAV-016 Series-Extended Insert

16+ \oplus

16A 500V 6kV 3

Use with 16B hoods/housings, refer to P21-01—P21-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated Left Side 	0.2~2.5	male 190 110 016 2020	male HEAV-016-ML	
		female 190 111 016 2020	female HEAV-016-FL	
Screw Termination Contact surface: silver-plated Right Side 	0.2~2.5	male 190 110 016 2030	male HEAV-016-MR	
		female 190 111 016 2030	female HEAV-016-FR	

For crimp tool and removal tool, see page P25-01

For crimp tool and removal tool, see page P25-01

HEAV-024 Series-Extended Insert

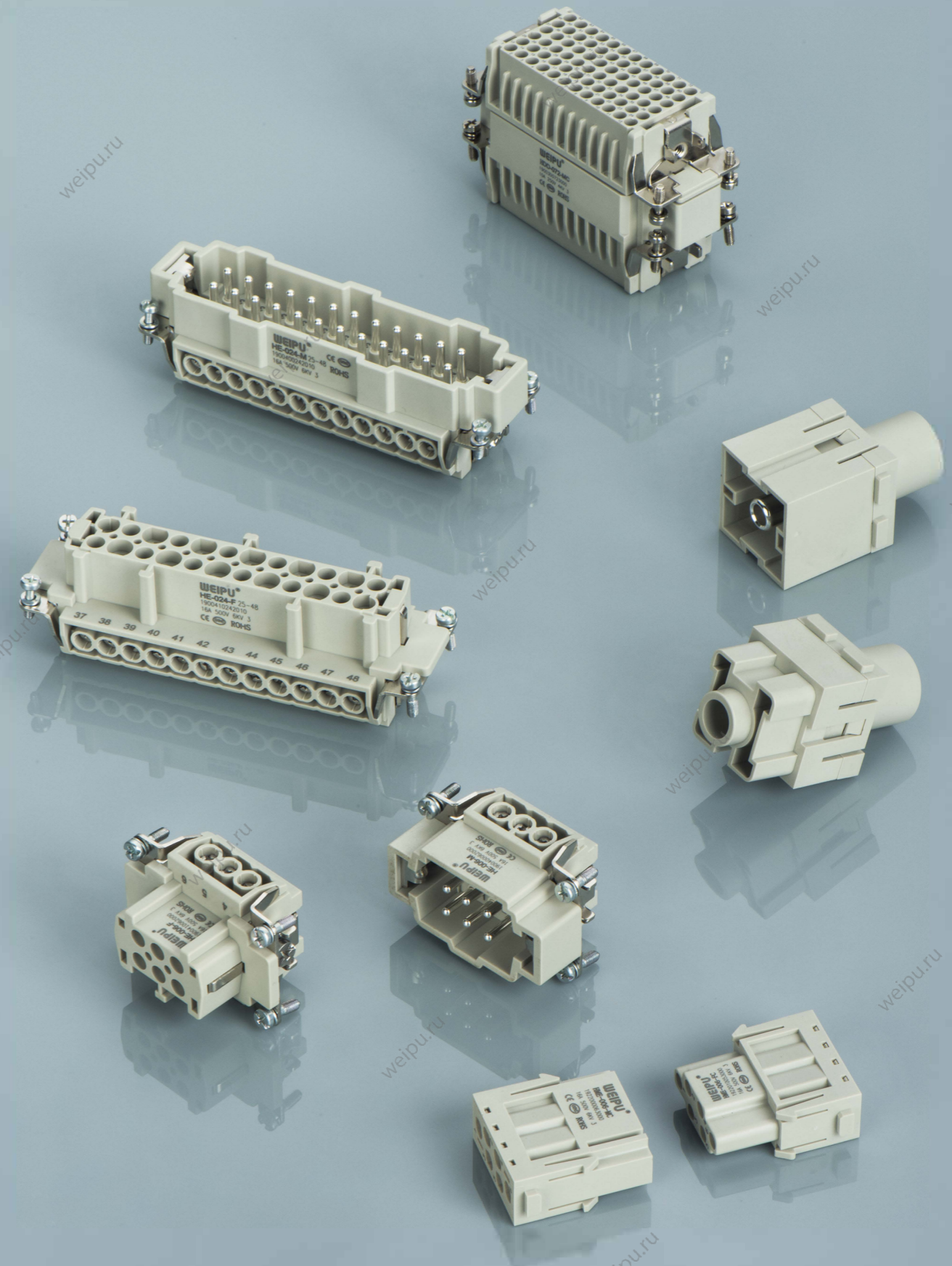
24+ ⊕

16A 500V 6kV 3

Use with 24B hoods/housings, refer to P22-01—P22-09

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Screw Termination Contact surface: silver-plated Left Side	0.2~2.5	male 190 110 024 2020	male HEAV-024-ML	
		female 190 111 024 2020	female HEAV-024-FL	
Screw Termination Contact surface: silver-plated Right Side	0.2~2.5	male 190 110 024 2030	male HEAV-024-MR	
		female 190 111 024 2030	female HEAV-024-FR	

For crimp tool and removal tool, see page P25-01



Overview

100-200A	H2MK-001		H2MK-001		H2MK-002	
	No. of Contact	1		1		2
Electrical parameters	200A/1000V		200A/1000V		100A/1000V	
Termination	Axial Screw Termination		Crimp Termination		Axial Screw Termination	
Wire Size	40~70mm ²		25~70mm ²		16~35mm ²	
male	192 200 001 2220		192 200 001 3020		192 200 002 2220	
female	192 201 001 2220		192 201 001 3020		192 201 002 2220	
Wire Size	25~40mm ²				10~25mm ²	
male	192 200 001 2120				192 200 002 2120	
female	192 201 001 2120				192 201 002 2120	

40-70A	HMK70-002		HMK-003		HMK-002		HMK-003		HMK-004		HMK-003/4	
	No. of Contact	2		3		2		3		4		7
Electrical parameters	70A/1000V		40A/690V		40A/1000V		40A/690V		40A/830V		40A+10A/830V	
Termination	Axial Screw Termination		Axial Screw Termination		Crimp Termination		Crimp Termination		Crimp Termination		Crimp Termination	
Wire Size	14~22mm ²		6~10mm ²		1.5~10mm ²		1.5~6mm ²		1.5~6mm ²		0.14~6mm ²	
male	192 210 002 2220		192 200 003 2200		192 200 002 3000		192 200 003 3000		192 200 004 3000		192 200 007 3000	
female	192 211 002 2220		192 201 003 2200		192 201 002 3000		192 201 003 3000		192 201 004 3000		192 201 007 3000	
Wire Size	6~16mm ²		2.5~8mm ²									
male	192 210 002 2120		192 200 003 2100									
female	192 211 002 2120		192 201 003 2100									

16A	HME-006		HMEE-008		H2MEE-020		HVME-006	
	No. of Contact	6		8		20		6
Electrical parameters	16A/500V		16A/500V		16A/400V		16A/830V	
Termination	Crimp Termination		Crimp Termination		Crimp Termination		Crimp Termination	
Wire Size	0.14~4mm ²		0.14~4mm ²		0.14~4mm ²		0.14~4mm ²	
male	192 200 006 3000		192 200 008 3000		192 200 020 3000		192 210 006 3000	
female	192 201 006 3000		192 201 008 3000		192 201 020 3000		192 211 006 3000	

10A	HMD-012		HMDD-017		HMDS-025	
	No. of Contact	12		17		25
Electrical parameters	10A/250V		10A/250V		4A/50V	
Termination	Crimp Termination		Crimp Termination		Crimp Termination	
Wire Size	0.14~2.5mm ²		0.14~2.5mm ²		0.08~0.52mm ²	
male	192 200 012 3000		192 200 017 3000		192 200 025 3000	
female	192 201 012 3000		192 201 017 3000		192 201 025 3000	

RJ45 Module	HM-USB		HM-RJ45	
	No. of Contact	2		8
Electrical parameters	5Gbit/S (USB3.0) 10A/250V		cat5e 10/100/1000Mbit/S 1A/50V	
Wire Size	192 210 000 0000		192 220 000 0000	
male	192 211 000 0000		192 231 000 0000	
female			192 230 000 0000	

Pneumatic module	HMP-002		HMP-003	
	No. of Contact	1		1
Electrical parameters	6.0mm / 1/4" maximum 8bar/116psi		1.6mm / 1/16" 3.0mm 4.0mm / 1/8" maximum 8bar/116psi	
Wire Size	191 123 000 5130		191 123 000 5230	
male	191 123 000 5130		191 123 000 5110	
female (without lock)	191 223 000 5130		191 223 000 5230	
male (with lock)	191 223 000 6130		191 223 000 6230	
	191 223 000 6110		191 223 000 6110	
	191 223 000 6120		191 223 000 6120	

Technical Information


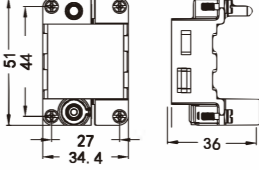

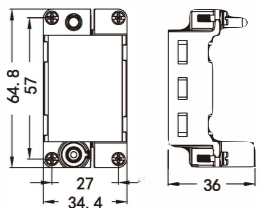

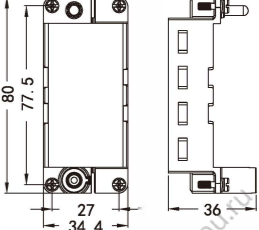

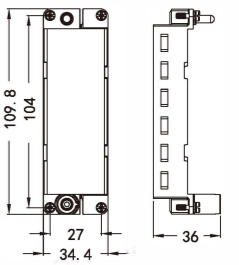
No. of module inserts 2, 3, 4, 6

Material Zinc alloy

Plating Nickel-plated or zinc-nickel alloy

Working Temperature -40°C~125°C

Modular Frames A

	Number of modules	Mark	Product Code	Part Number	Drawings (mm)
Frame 6B for 6B Hoods/Housings 	2	A-B a-b	male 192 100 006 2000 female 192 101 006 2000	male H6B-TA2-M female H6B-TA2-F	
Frame 10B for 10B Hoods/Housings 	3	A-C a-c	male 192 100 010 3000 female 192 101 010 3000	male H10B-TA3-M female H10B-TA3-F	
Frame 16B for 16B Hoods/Housings 	4	A-D a-d	male 192 100 016 4000 female 192 100 016 4000	male H16B-TA4-M female H16B-TA4-F	
Frame 24B for 24B Hoods/Housings 	6	A-F a-f	male 192 100 024 6000 female 192 101 024 6000	male H24B-TA6-M female H24B-TA6-F	

Technical Information

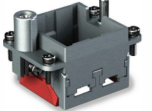
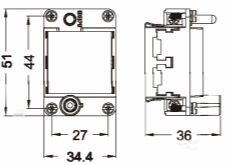
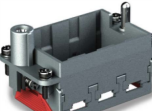
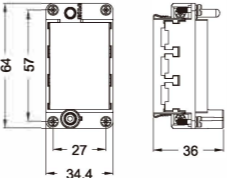
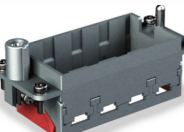
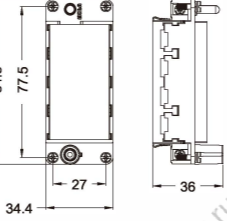
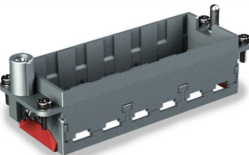
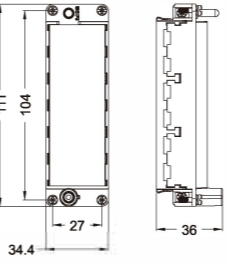
No. of module inserts 2, 3, 4, 6

Material Zinc alloy

Plating Nickel-plated or zinc-nickel alloy

Working Temperature $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$

Modular Frames B

	Number of modules	Mark	Product Code	Part Number	Drawings (mm)
Frame 6B for 6B Hoods/Housings 	2	A-B a-b	male 192 110 006 2000 female 192 111 006 2000	male H6B-TB2-M female H6B-TB2-M	
Frame 10B for 10B Hoods/Housings 	3	A-C a-c	male 192 110 010 3000 female 192 111 010 3000	male H10B-TB3-M female H10B-TB3-F	
Frame 16B for 16B Hoods/Housings 	4	A-D a-d	male 192 110 016 4000 female 192 111 016 4000	male H16B-TB4-M female H16B-TB4-F	
Frame 24B for 24B Hoods/Housings 	6	A-F a-f	male 192 110 024 6000 female 192 111 024 6000	male H24B-TB6-M female H24B-TB6-F	

H2MK-001 Modular Insert-Axial Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 1

Insert

Rated Current 200A (see current load diagram)

Rated Voltage 1000V

Rated Pulse Voltage 8kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Mating Cycle ≥ 500

Contact

Material Copper Alloy

Plating Gold-plated,

Contact resistance $\leq 0.2\text{m}\Omega$

Termination **Axial Termination**

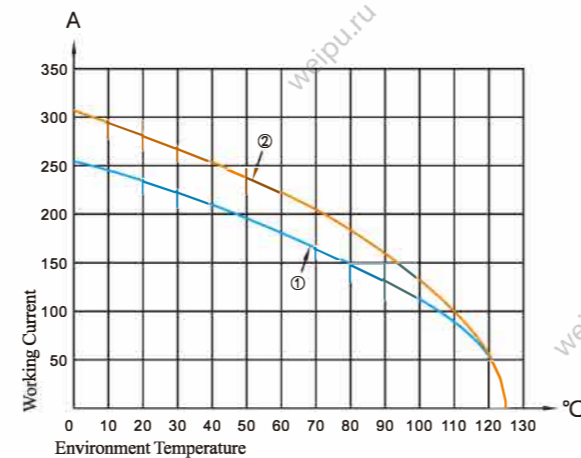
Wire Size 25-70 mm²
3-00AWG

stripping Length 16mm

Hexagon socket wrench SW5

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2




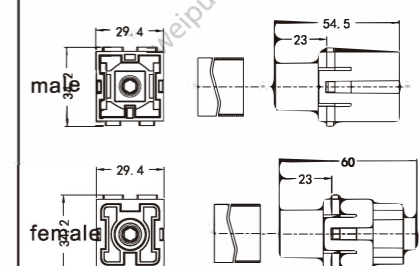

- ① 24BHoods/Housings require 3 modules, wire size: 50mm²
② 24BHoods/Housings require 3 modules, wire size: 70mm²

H2MK-001 Modular Insert-Axial Termination

1

200A 1000V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Axial Termination Contact surface: silver-plated 	25~40	male 192 200 001 2120	male H2MK-001.1-M (25-40mm ²)	 stripping length: 16mm Torque: 25mm ² : 8N·m 40mm ² : 8N·m 40mm ² : 9N·m 70mm ² : 10N·m
		female 192 201 001 2120	female H2MK-001.1-F (25-40mm ²)	
	40~70	male 192 200 001 2220	male H2MK-001.2-M (40-70mm ²)	
		female 192 201 001 2220	female H2MK-001.2-F (40-70mm ²)	

Tools

Hexagon socket wrench



Product Code

193 005 004 0000

Part Number

HT-5/150

H2MK-001 Modular Insert-Crimp Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 1

Insert

Rated Current	200A (see current load diagram)
Rated Voltage	1000V
Rated Pulse Voltage	8kV
Pollution Degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C

Flammability Rating (UL94) V-0

Mating Cycle ≥ 500

Contact

Material Copper Alloy

Plating Silver-plated

Contact resistance $\leq 0.3m\Omega$

Termination **Crimp Termination**

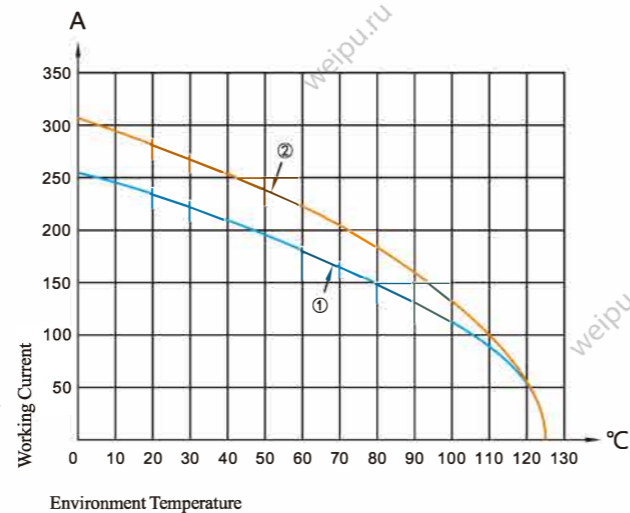
Wire Size 25-70 mm²
3-00AWG

stripping Length 22.5mm

Hexagon socket wrench

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① 24BHoods/Housings require 3 modules, wire size: 50mm²
② 24BHoods/Housings require 3 modules, wire size: 70mm²

H2MK-001 Modular Insert-Crimp Termination

1

200A 1000V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated	25~70	male 192 200 001 3020	male H2MK-001-MC	
		female 192 201 001 3020	female H2MK-001-FC	

Crimp Contact	male		female		Drawings (mm)													
	Product Code	Part Number	Product Code	Part Number														
silver-plated	191 100 200 0160	YJ9.5-42.3-25AG	191 200 200 0160	YK9.5-40.1-25AG														
	191 100 200 0170	YJ9.5-42.3-35AG	191 200 200 0170	YK9.5-40.1-35AG														
	191 100 200 0180	YJ9.5-42.3-50AG	191 200 200 0180	YK9.5-40.1-50AG														
	191 100 200 0190	YJ9.5-42.3-70AG	191 200 200 0190	YK9.5-40.1-70AG														
	<table border="1"> <thead> <tr> <th>Cross Section</th> <th>∅</th> <th>stripping length</th> </tr> </thead> <tbody> <tr><td>25mm²</td><td>7</td><td>17.9mm</td></tr> <tr><td>35mm²</td><td>8.2</td><td>17.9mm</td></tr> <tr><td>50mm²</td><td>10</td><td>17.9mm</td></tr> <tr><td>70mm²</td><td>11.5</td><td>17.9mm</td></tr> </tbody> </table>					Cross Section	∅	stripping length	25mm ²	7	17.9mm	35mm ²	8.2	17.9mm	50mm ²	10	17.9mm	70mm ²
Cross Section	∅	stripping length																
25mm ²	7	17.9mm																
35mm ²	8.2	17.9mm																
50mm ²	10	17.9mm																
70mm ²	11.5	17.9mm																
stranded wires comply with IEC 60228-5																		
Contact resistance $\leq 0.3m\Omega$																		

H2MK-002 Modular Insert-Axial Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 2

Insert

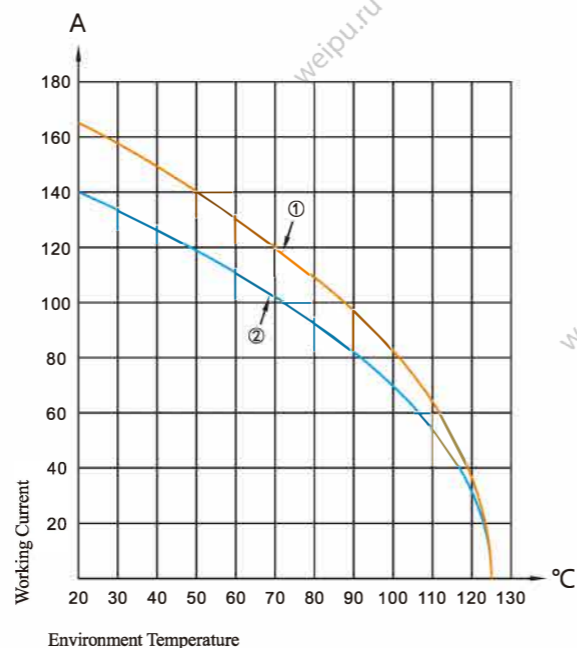
Rated Current	100A (see current load diagram)
Rated Voltage	1000V
Rated Pulse Voltage	8kV
Pollution Degree	3
Complies with UL rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Silver-plated
Contact resistance	$\leq 0.3m\Omega$
Termination	Axial Termination
Wire Size	10-35 mm ² 7-2AWG
stripping Length	13mm
Hexagon socket wrench	SW4

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2




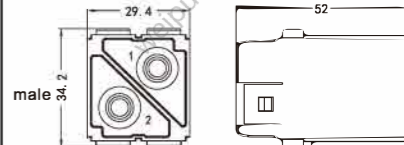
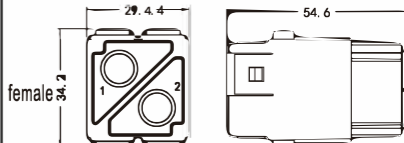
- ① 24BHoods/Housings require 3 modules, wire size: 35mm²
② 24BHoods/Housings require 3 modules, wire size: 25mm²

H2MK-002 Modular Insert-Axial Termination

2

100A 1000V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Axial Termination Contact surface: silver-plated 	10~25	male 192 200 002 2120	male H2MK-002.1-M (10-25mm ²)	
		female 192 201 002 2120	female H2MK-002.1-F(10-25mm ²)	
	16~35	male 192 200 002 2220	male H2MK-002.2-M (16-35mm ²)	
		female 192 201 002 2220	female H2MK-002.2-F(16-35mm ²)	

stripping length: 13mm
Torque: 10mm²: 6N·m
16mm²: 6N·m
25mm²: 7N·m
35mm²: 8N·m

Tools

Hexagon socket wrench



Product Code

193 005 003 0000

Part Number

HT-4/150

HMK70-002 Modular Insert-Axial Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 2

Insert

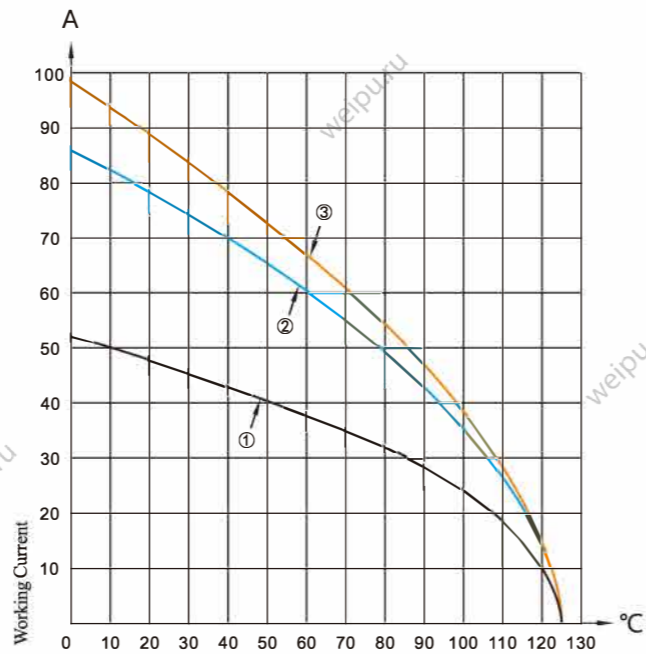
Rated Current	70A (see current load diagram)
Rated Voltage	1000V
Rated Pulse Voltage	8kV
Pollution Degree	3
Complies with UL rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Silver-plated
Contact resistance	$\leq 0.5m\Omega$
Termination	Axial Termination
Wire Size	6-22 mm ² 9-4AWG
stripping Length	6mm ² : 11mm 10mm ² : 11mm 16mm ² : 11mm 22mm ² : 12.5mm
Hexagon socket wrench	SW2.5

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



Environment Temperature


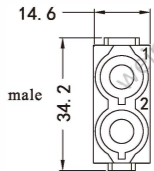
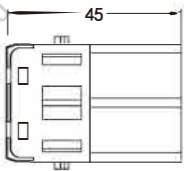
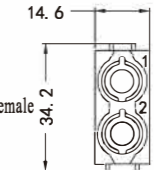
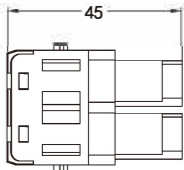

- ① 24BHoods/Housings require 6 modules, wire size: 6mm²
- ② 24BHoods/Housings require 6 modules, wire size: 16mm²
- ③ 24BHoods/Housings require 6 modules, wire size: 22mm²

HMK70-002 Modular Insert-Axial Termination

2

70A 1000V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Axial Termination Contact surface: silver-plated 	6~16	male 192 210 002 2120	male HMK70-002.1-M (6-16mm ²)	    stripping length: 6mm ² : 11mm 10mm ² : 11mm 16mm ² : 11mm 22mm ² : 12.5mm Torque: 6mm ² : 2N·m 10mm ² : 3N·m 14mm ² : 4N·m 16mm ² : 4N·m 22mm ² : 4N·m
		female 192 211 002 2120	female HMK70-002.1-F(6-16mm ²)	
	14~22	male 192 210 002 2220	male HMK70-002.2-M (14-22mm ²)	
		female 192 211 002 2220	female HMK70-002.2-F(14-22mm ²)	

Tools

Hexagon socket wrench



Product Code

193 005 002 0000

Part Number

HT-2.5/100

HMK-003 Modular Insert-Axial Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 3

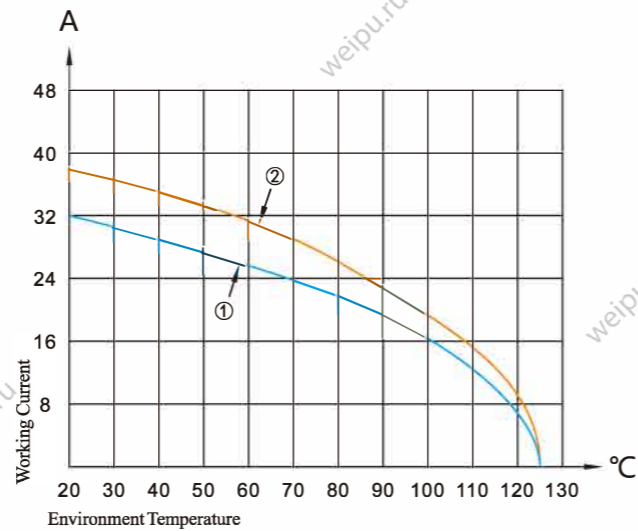
Rated Current	40A (see current load diagram)
Rated Voltage	690V
Rated Pulse Voltage	8kV
Pollution Degree	3
Complies with UL rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy	
Plating	Silver-plated	
Contact resistance	$\leq 1m\Omega$	
Termination	Axial Termination	
Wire Size	2.5-10 mm ²	13-7AWG
stripping Length	2.5mm ² : 5mm	4mm ² : 5mm
	6mm ² : 8mm	10mm ² : 11mm
Hexagon socket wrench	SW2	

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2




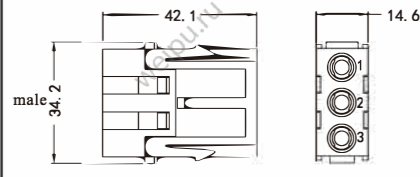
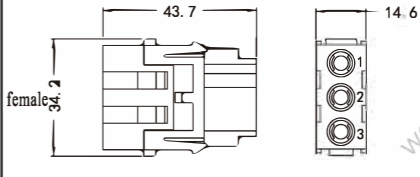

- ① 24BHoods/Housings require 6 modules, wire size: 4mm²
② 24BHoods/Housings require 6 modules, wire size: 6mm²

HMK-003 Modular Insert-Axial Termination

3

40A 690V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Axial Termination Contact surface: silver-plated 	2.5-8	male 192 200 003 2100	male HMK-003.1-M (2.5-8mm ²)	 
		female 192 201 003 2100	female HMK-003.1-F (2.5-8mm ²)	
	6-10	male 192 200 003 2200	male HMK-003.2-M (6-10mm ²)	stripping length: 2.5mm ² : 5mm 4mm ² : 5mm 6mm ² : 8mm 10mm ² : 11mm Torque: 2.5mm ² : 1.5N·m 4mm ² : 1.5N·m 6mm ² : 2N·m 10mm ² : 2N·m
		female 192 201 003 2200	female HMK-003.2-F (6-10mm ²)	

Tools

Hexagon socket wrench



Product Code

193 005 001 0000

Part Number

HT-2/100

HMK-002 Modular Insert-Crimp Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 2

Insert

Rated Current 40A (see current load diagram)

Rated Voltage 1000V

Rated Pulse Voltage 8kV

Pollution Degree 3

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Mating Cycle ≥ 500

Contact

Material Copper Alloy

Plating Silver-plated

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

Termination **Crimp Termination**

Wire Size 1.5-10 mm² 15-7AWG

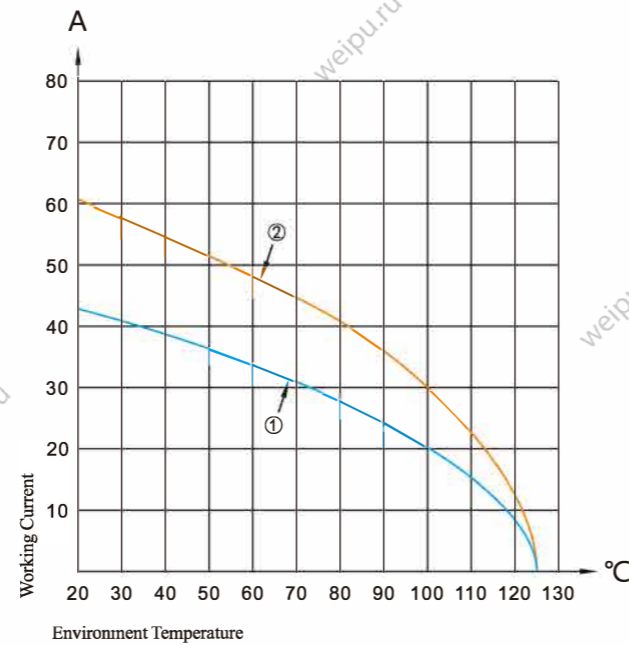
stripping Length 1.5mm² : 9mm 2.5mm² : 9mm

4mm² : 9.6mm 6mm² : 9.6mm

10mm² : 15mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2




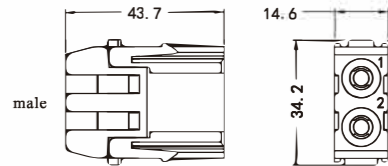

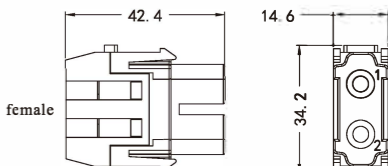
- ① 24BHoods/Housings require 6 modules, wire size: 4mm²
② 24BHoods/Housings require 6 modules, wire size: 6mm²


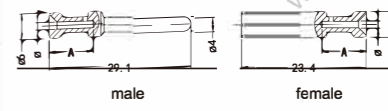
HMK-002 Modular Insert-Crimp Termination

2

40A 1000V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, 	1.5~10	male 192200002 3000	male HMK-002-MC	
		female 192 201 002 3000	female HMK-002-FC	

Crimp Contact	male		female		Drawings (mm)																								
	Product Code	Part Number	Product Code	Part Number																									
silver-plated 	191 100 040 0090	YJ4.0-29.1-1.5AG	191 200 040 0090	YK4.0-23.4-1.5AG	 <table border="1"> <thead> <tr> <th>Cross Section</th> <th>AWG</th> <th>ø</th> <th>stripping length</th> </tr> </thead> <tbody> <tr><td>1.5mm²</td><td>15</td><td>1.75</td><td>9mm</td></tr> <tr><td>2.5mm²</td><td>13</td><td>2.25</td><td>9mm</td></tr> <tr><td>4mm²</td><td>11</td><td>2.85</td><td>9.6mm</td></tr> <tr><td>6mm²</td><td>9</td><td>3.5</td><td>9.6mm</td></tr> <tr><td>10mm²</td><td>7</td><td>4.5</td><td>15mm</td></tr> </tbody> </table> stripping Length A=15mm for Cable OD≥5mm stripping Length A=18mm for Cable OD≥6.4mm Contact resistance ≤ 1mΩ	Cross Section	AWG	ø	stripping length	1.5mm ²	15	1.75	9mm	2.5mm ²	13	2.25	9mm	4mm ²	11	2.85	9.6mm	6mm ²	9	3.5	9.6mm	10mm ²	7	4.5	15mm
	Cross Section	AWG	ø	stripping length																									
	1.5mm ²	15	1.75	9mm																									
	2.5mm ²	13	2.25	9mm																									
	4mm ²	11	2.85	9.6mm																									
	6mm ²	9	3.5	9.6mm																									
10mm ²	7	4.5	15mm																										
191 100 040 0100	YJ4.0-29.1-2.5AG	191 200 040 0200	YK4.0-23.4-2.5AG																										
191 100 040 0120	YJ4.0-29.1-4.0AG	191 200 040 0120	YK4.0-23.4-4.0AG																										
191 100 040 0130	YJ4.0-29.1-6.0AG	191 200 040 0130	YK4.0-23.4-6.0AG																										
191 100 040 0140	YJ4.0-29.1-10.0AG	191 200 040 0140	YK4.0-23.4-10.0AG																										

HMK-003 Series Modular Insert-Crimp Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 3

Insert

Rated Current 40A (see current load diagram)

Rated Voltage 690V

Rated Pulse Voltage 8kV

Pollution Degree 3

Complies with UL/CSA rated voltage 600V

Complies with UL/CSARated Current 32A

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Mating Cycle ≥ 500 次

Contact

Material Copper Alloy

Plating Silver-plated

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

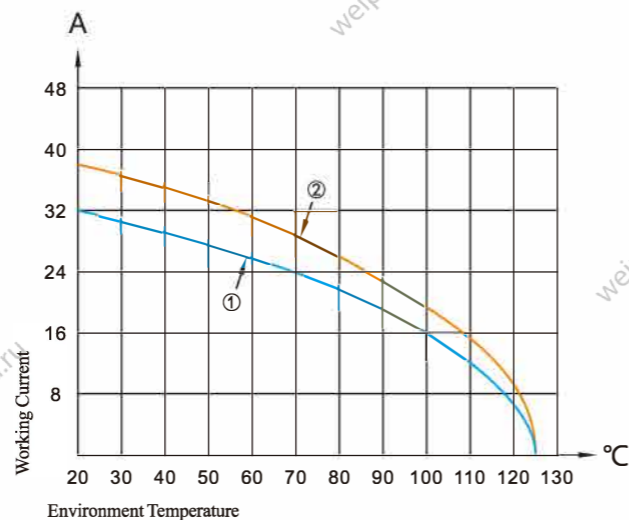
Termination **Crimp Termination**

Wire Size 1.5-10 mm² 15-7AWG

stripping Length
1.5mm² : 9mm 2.5mm² : 9mm
4mm² : 9.6mm 6mm² : 9.6mm
10mm² : 15mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2




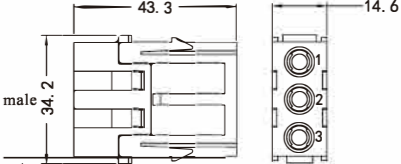

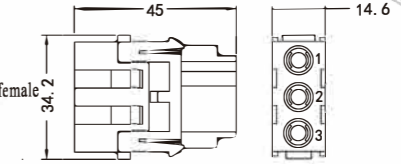
- ① 24BHoods/Housings require 6 modules, wire size: 4mm²
② 24BHoods/Housings require 6 modules, wire size: 6mm²


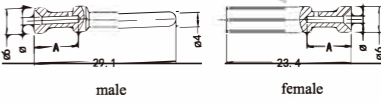
HMK-003 Series Modular Insert-Crimp Termination

3

40A 690V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, 	1.5~10	male 192200003 3000	male HMK-003-MC	
		female 192201 003 3000	female HMK-003-FC	

Crimp Contact	male		female		Drawings (mm)																								
	Product Code	Part Number	Product Code	Part Number																									
silver-plated 	191 100 040 0090	YJ4.0-29.1-1.5AG	191 200 040 0090	YK4.0-23.4-1.5AG	 male female <table border="1"> <thead> <tr> <th>Cross Section</th> <th>AWG</th> <th>φ</th> <th>stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5mm²</td> <td>15</td> <td>1.75</td> <td>9mm</td> </tr> <tr> <td>2.5mm²</td> <td>13</td> <td>2.25</td> <td>9mm</td> </tr> <tr> <td>4mm²</td> <td>11</td> <td>2.85</td> <td>9.6mm</td> </tr> <tr> <td>6mm²</td> <td>9</td> <td>3.5</td> <td>9.6mm</td> </tr> <tr> <td>10mm²</td> <td>7</td> <td>4.5</td> <td>15mm</td> </tr> </tbody> </table> stripping Length A=15mm for Cable OD \geq 5mm stripping Length A=18mm for Cable OD \geq 6.4mm Contact resistance \leq 1m Ω	Cross Section	AWG	φ	stripping length	1.5mm ²	15	1.75	9mm	2.5mm ²	13	2.25	9mm	4mm ²	11	2.85	9.6mm	6mm ²	9	3.5	9.6mm	10mm ²	7	4.5	15mm
	Cross Section	AWG	φ	stripping length																									
	1.5mm ²	15	1.75	9mm																									
	2.5mm ²	13	2.25	9mm																									
	4mm ²	11	2.85	9.6mm																									
6mm ²	9	3.5	9.6mm																										
10mm ²	7	4.5	15mm																										
191 100 040 0100	YJ4.0-29.1-2.5AG	191 200 040 0200	YK4.0-23.4-2.5AG																										
191 100 040 0120	YJ4.0-29.1-4.0AG	191 200 040 0120	YK4.0-23.4-4.0AG																										
191 100 040 0130	YJ4.0-29.1-6.0AG	191 200 040 0130	YK4.0-23.4-6.0AG																										
191 100 040 0140	YJ4.0-29.1-10.0AG	191 200 040 0140	YK4.0-23.4-10.0AG																										

HMK-004 Modular Insert-Crimp Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 4

Insert

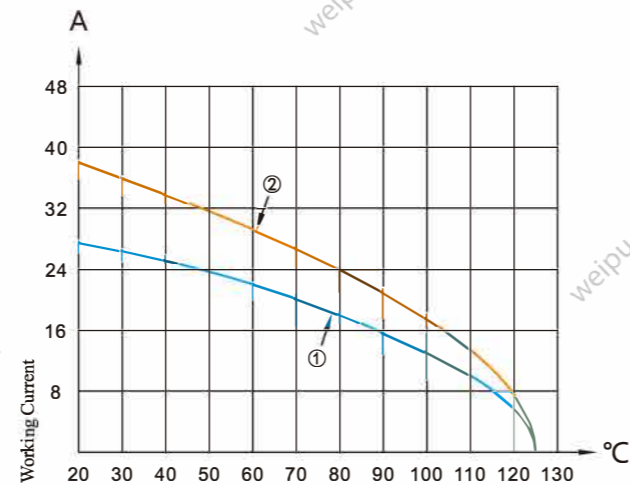
Rated Current	40A (see current load diagram)
Rated Voltage	830V
Rated Pulse Voltage	8kV
Pollution Degree	3
Complies with UL/CSA rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy	
Plating	Silver-plated	
Contact resistance	$\leq 1m\Omega$	
Termination	Crimp Termination	
Wire Size	1.5-10 mm ² 15-7AWG	
stripping Length	1.5mm ² : 9mm	2.5mm ² : 9mm
	4mm ² : 9.6mm	6mm ² : 9.6mm
	10mm ² : 15mm	

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



Environment Temperature


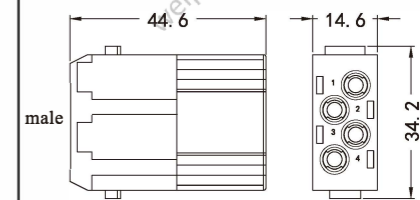
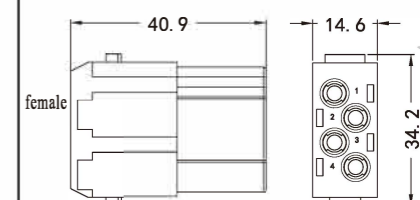
- ① 24BHoods/Housings require 6 modules, wire size: 4mm²
- ② 24BHoods/Housings require 6 modules, wire size: 6mm²


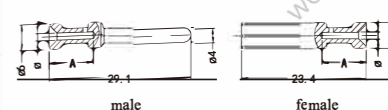
HMK-004 Modular Insert-Crimp Termination

4

40A 830V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, 	1.5~10	male 192 200 004 3000	male HMK-004-MC	
		female 192 201 004 3000	female HMK-004-FC	

Crimp Contact	male		female		Drawings (mm)																								
	Product Code	Part Number	Product Code	Part Number																									
silver-plated 	191 100 040 0090	YJ4.0-29.1-1.5AG	191 200 040 0090	YK4.0-23.4-1.5AG	 <table border="1"> <thead> <tr> <th>Cross Section</th> <th>AWG</th> <th>ø</th> <th>stripping length</th> </tr> </thead> <tbody> <tr><td>1.5mm²</td><td>15</td><td>1.75</td><td>9mm</td></tr> <tr><td>2.5mm²</td><td>13</td><td>2.25</td><td>9mm</td></tr> <tr><td>4mm²</td><td>11</td><td>2.85</td><td>9.6mm</td></tr> <tr><td>6mm²</td><td>9</td><td>3.5</td><td>9.6mm</td></tr> <tr><td>10mm²</td><td>7</td><td>4.5</td><td>15mm</td></tr> </tbody> </table> stripping Length A=15mm for Cable OD≥5mm stripping Length A=18mm for Cable OD≥6.4mm Contact resistance≤1mΩ	Cross Section	AWG	ø	stripping length	1.5mm ²	15	1.75	9mm	2.5mm ²	13	2.25	9mm	4mm ²	11	2.85	9.6mm	6mm ²	9	3.5	9.6mm	10mm ²	7	4.5	15mm
	Cross Section	AWG	ø	stripping length																									
	1.5mm ²	15	1.75	9mm																									
	2.5mm ²	13	2.25	9mm																									
	4mm ²	11	2.85	9.6mm																									
	6mm ²	9	3.5	9.6mm																									
10mm ²	7	4.5	15mm																										
191 100 040 0100	YJ4.0-29.1-2.5AG	191 200 040 0200	YK4.0-23.4-2.5AG																										
191 100 040 0120	YJ4.0-29.1-4.0AG	191 200 040 0120	YK4.0-23.4-4.0AG																										
191 100 040 0130	YJ4.0-29.1-6.0AG	191 200 040 0130	YK4.0-23.4-6.0AG																										
191 100 040 0140	YJ4.0-29.1-10.0AG	191 200 040 0140	YK4.0-23.4-10.0AG																										

HMK-003/4 Modular Insert-Crimp Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: Power: 3 Signal: 4

Insert

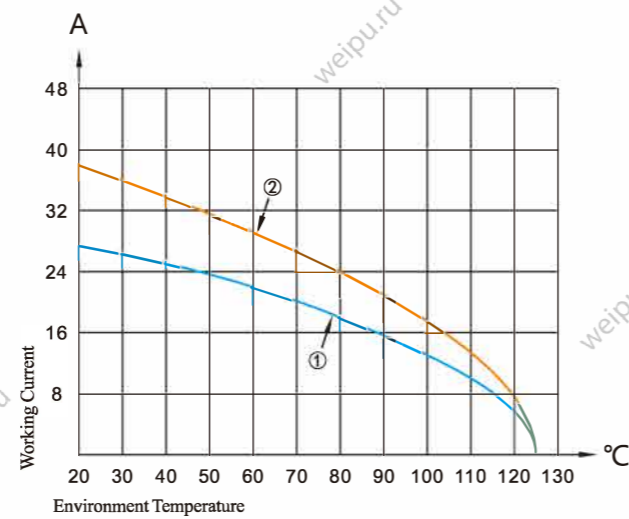
Rated Current	Power: 40A (see current load diagram) Signal: 10A
Rated Voltage	830V
Rated Pulse Voltage	8kV
Pollution Degree	3
Complies with UL/CSA rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	Power: $\leq 1m\Omega$ Signal: $\leq 3m\Omega$
Termination	Crimp Termination
Wire Size	Power: 1.5~10 mm ² 15~7AWG Signal: 0.14~2.5 mm ² 26~13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① 24BHoods/Housings require 6 modules, wire size: 4mm²
② 24BHoods/Housings require 6 modules, wire size: 6mm²

HMK-003/4 Modular Insert-Crimp Termination

3

40A 830V 8kV 3
+4 signal pin
10A 830V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated	Power 1.5~10	male 192 200 007 3000	male HMK-003/4-MC	
	Signal 0.14~2.5	female 192 201 007 3000	female HMK-003/4-FC	

Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG	
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG	
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG	
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG	
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG	
191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG		
gold-plated	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU	
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU	
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU	
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU	
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU	
191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU		

wire size	AWG	σ	stripping length
0.14~0.37mm ²	AWG26~22	0.9	8mm
0.5mm ²	AWG20	1.1	8mm
0.75mm ²	AWG18	1.3	8mm
1mm ²	AWG17	1.45	8mm
1.5mm ²	AWG15	1.75	8mm
2.5mm ²	AWG13	2.25	6mm

Contact resistance $\leq 3m\Omega$

Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated	191 100 040 0090	YJ4.0-29.1-1.5AG	191 200 040 0090	YK4.0-23.4-1.5AG	
	191 100 040 0100	YJ4.0-29.1-2.5AG	191 200 040 0200	YK4.0-23.4-2.5AG	
	191 100 040 0120	YJ4.0-29.1-4.0AG	191 200 040 0120	YK4.0-23.4-4.0AG	
	191 100 040 0130	YJ4.0-29.1-6.0AG	191 200 040 0130	YK4.0-23.4-6.0AG	
	191 100 040 0140	YJ4.0-29.1-10.0AG	191 200 040 0140	YK4.0-23.4-10.0AG	

Cross Section	AWG	σ	stripping length
1.5mm ²	15	1.75	9mm
2.5mm ²	13	2.25	9mm
4mm ²	11	2.85	9.6mm
6mm ²	9	3.5	9.6mm
10mm ²	7	4.5	15mm

stripping Length A=15mm for Cable OD \geq 5mm
stripping Length A=18mm for Cable OD \geq 6.4mm

Contact resistance $\leq 1m\Omega$

HME-006 HM Series-Modular Insert

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 6

Insert

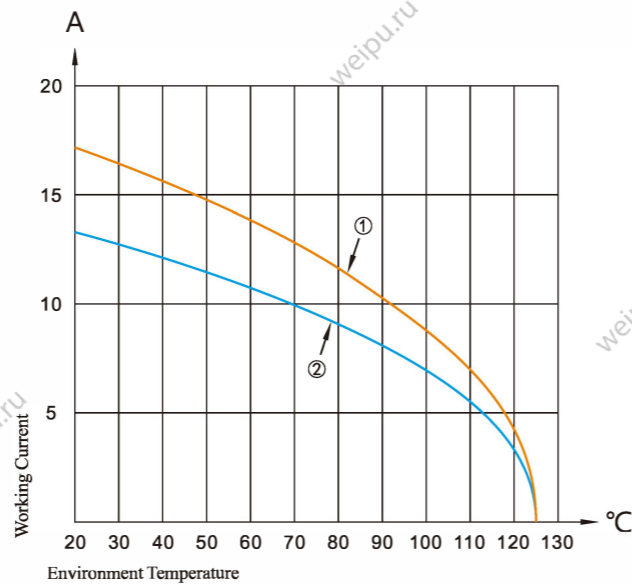
Rated Current	16A (see current load diagram)
Rated Voltage	500V
Rated Pulse Voltage	6kV
Pollution Degree	3
Complies with UL/CSA rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 1m\Omega$
Termination	Crimp Termination
Wire Size	0.14-4 mm ² 26-11AWG
stripping Length	7.5mm

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① 24BHoods/Housings require 6 modules, wire size: 2.5mm²
② 24BHoods/Housings require 6 modules, wire size: 1.5mm²

HME-006 HM Series-Modular Insert

6

16A 500V 6kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 192 200 006 3000	male HME-006-MC	
		female 192 201 006 3000	female HME-006-FC	

Crimp Contact	male		female		Drawings (mm)	
	Product Code	Part Number	Product Code	Part Number		
silver-plated 	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG		
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG		
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG		
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG		
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG		
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG		
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG		
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG		
	gold-plated 	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030		YK2.5-22-0.37AU
		191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040		YK2.5-22-0.5AU
191 110 016 0060		YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU		
191 110 016 0080		YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU		
191 110 016 0090		YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU		
191 110 016 0100		YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU		
191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU			
191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU			

Marks	wire size (mm ²)	AWG
Without Groove	0.14~0.37	AWG26~22
Without Groove	0.5	AWG20
With 1 Groove	0.75	AWG18
With 1 Groove	1	AWG18
With 2 Groove	1.5	AWG16
With 3 Groove	2.5	AWG14
Wide Groove	3	AWG12
Without Groove	4	AWG12

stripping length : 7.5mm
Contact resistance $\leq 1m\Omega$

HMEE-008 Modular Insert-Crimp Termination

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 8

Insert

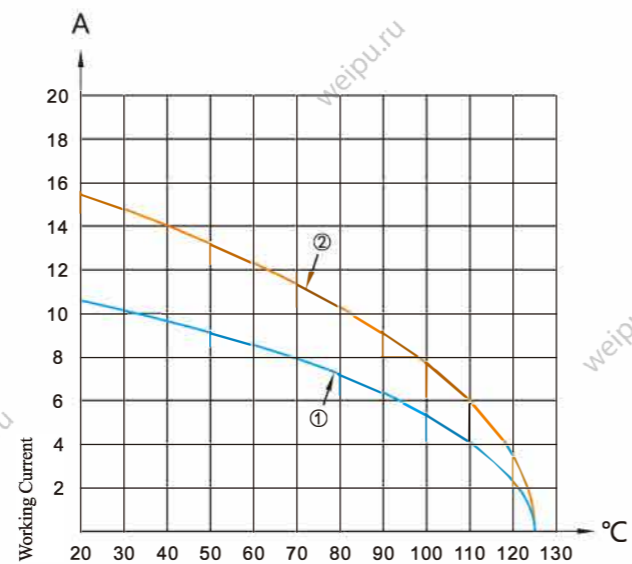
Rated Current	16A (see current load diagram)
Rated Voltage	400V
Rated Pulse Voltage	6kV
Pollution Degree	3
Complies with UL/CSA rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 1m\Omega$
Termination	Crimp Termination
Wire Size	0.14-4 mm ² 26-11AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



Environment Temperature

- ① 24BHoods/Housings require 6 modules, wire size: 1.5mm²
- ② 24BHoods/Housings require 6 modules, wire size: 2.5mm²

HMEE-008 Modular Insert-Crimp Termination

8

16A 400V 6kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 192 200 008 3000	male HMEE-008-MC	
		female 192 201 008 3000	female HMEE-008-FC	

Crimp Contact	male		female		Drawings (mm)	
	Product Code	Part Number	Product Code	Part Number		
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG		
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG		
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG		
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG		
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG		
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG		
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG		
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG		
	gold-plated	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030		YK2.5-22-0.37AU
		191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040		YK2.5-22-0.5AU
		191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060		YK2.5-22-0.75AU
		191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080		YK2.5-22-1.0AU
191 110 016 0090		YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU		
191 110 016 0100		YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU		
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU		
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU		

Marks	wire size (mm ²)	AWG
Without Groove	0.14~0.37	AWG26~22
Without Groove	0.5	AWG20
With 1 Groove	0.75	AWG18
With 1 Groove	1	AWG18
With 2 Groove	1.5	AWG16
With 3 Groove	2.5	AWG14
Wide Groove	3	AWG12
Without Groove	4	AWG12

stripping length : 7.5mm
Contact resistance $\leq 1m\Omega$

H2MEE-020 Modular Insert-Crimp Termination

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 8

Insert

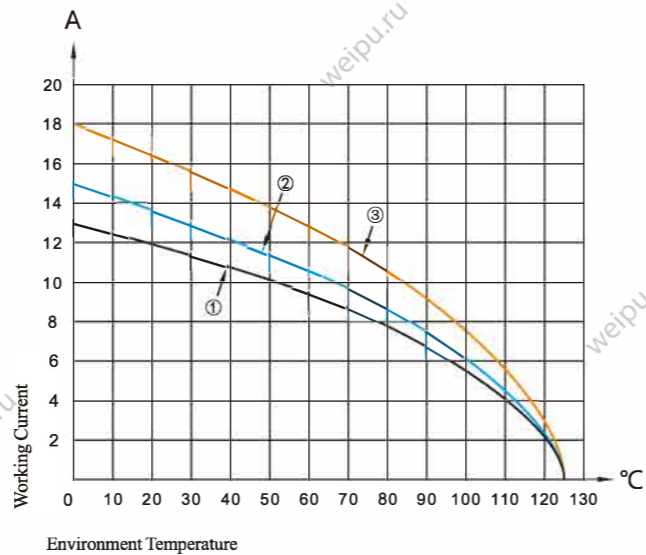
Rated Current	16A (see current load diagram)
Rated Voltage	500V
Rated Pulse Voltage	6kV
Pollution Degree	3
Complies with UL/CSA rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 1m\Omega$
Termination	Crimp Termination
Wire Size	0.14-4 mm ² 26-11AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



H2MEE-020 Modular Insert-Crimp Termination 20

16A 500V 6kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 192 200 020 3000	male H2MEE-020-MC	
		female 192 201 020 3000	Mfemale H2EE-020-FC	

Crimp Contact	male		female		Drawings (mm)	
	Product Code	Part Number	Product Code	Part Number		
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG		
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG		
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG		
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG		
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG		
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG		
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG		
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG		
	gold-plated	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030		YK2.5-22-0.37AU
		191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040		YK2.5-22-0.5AU
		191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060		YK2.5-22-0.75AU
		191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080		YK2.5-22-1.0AU
191 110 016 0090		YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU		
191 110 016 0100		YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU		
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU		
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU		

Marks	wire size (mm ²)	
Without Groove	0.14~0.37	AWG26~22
Without Groove	0.5	AWG20
With 1 Groove	0.75	AWG18
With 1 Groove	1	AWG18
With 2 Groove	1.5	AWG16
With 3 Groove	2.5	AWG14
Wide Groove	3	AWG12
Without Groove	4	AWG12

stripping length : 7.5mm

Contact resistance $\leq 1m\Omega$

HVME-006 Modular Insert with High Protection

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 6

Insert

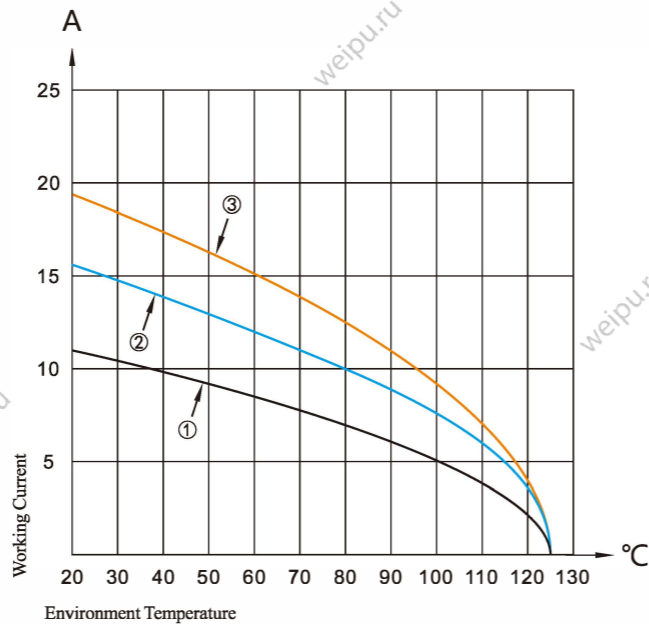
Rated Current	16A (see current load diagram)
Rated Voltage	830V
Rated Pulse Voltage	8kV
Pollution Degree	3
Complies with UL/CSA rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 1m\Omega$
Termination	Crimp Termination
Wire Size	0.14-4 mm ² 26-11AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① 24BHoods/Housings require 6 modules, wire size: 1.5mm²
- ② 24BHoods/Housings require 6 modules, wire size: 2.5mm²
- ③ 24BHoods/Housings require 6 modules, wire size: 4mm²

HVME-006 Modular Insert with High Protection

6

16A 830V 8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 192 210 006 3000	male HVME-006-MC	
		female 192 211 006 3000	female HVME-006-FC	

Crimp Contact	male		female		Drawings (mm)	
	Product Code	Part Number	Product Code	Part Number		
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG		
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG		
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG		
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG		
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG		
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG		
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG		
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG		
	gold-plated	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030		YK2.5-22-0.37AU
		191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040		YK2.5-22-0.5AU
		191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060		YK2.5-22-0.75AU
		191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080		YK2.5-22-1.0AU
191 110 016 0090		YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU		
191 110 016 0100		YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU		
191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU			
191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU			

Marks	wire size (mm ²)	AWG
Without Groove	0.14~0.37	AWG26~22
Without Groove	0.5	AWG20
With 1 Groove	0.75	AWG18
With 1 Groove	1	AWG18
With 2 Groove	1.5	AWG16
With 3 Groove	2.5	AWG14
Wide Groove	3	AWG12
Without Groove	4	AWG12

stripping length : 7.5mm
Contact resistance $\leq 1m\Omega$

HMD-012 Modular Insert-Crimp Termination

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 12

Insert

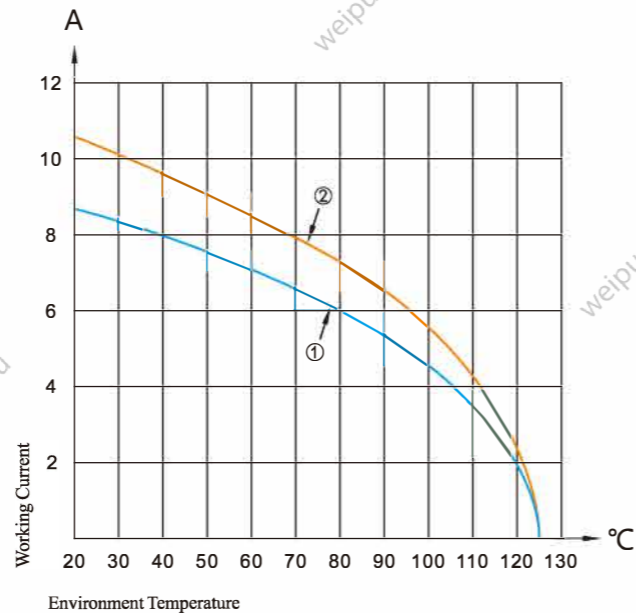
Rated Current	10A (see current load diagram)
Rated Voltage	250V
Rated Pulse Voltage	4kV
Pollution Degree	3
Complies with UL/CSA rated voltage	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 3m\Omega$
Termination	Crimp Termination
Wire Size	0.14-2.5 mm ² 26-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① 24BHoods/Housings require 6 modules, wire size: 1.0mm²
② 24BHoods/Housings require 6 modules, wire size: 1.5mm²

HMD-012 Modular Insert-Crimp Termination 12

10A 250V 4kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~2.5	male 192 200 012 3000	male HMD-012-MC	
		female 192 201 012 3000	female HMD-012-FC	

Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated	19 1 10 0 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG	
	19 1 10 0 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG	
	19 1 10 0 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG	
	19 1 10 0 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG	
	19 1 10 0 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG	
	19 1 10 0 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG	
gold-plated	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU	
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU	
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU	
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU	
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU	
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU	

wire size	AWG	Ø	stripping length
0.14-0.37mm ²	AWG26-22	0.9	8mm
0.5mm ²	AWG20	1.1	8mm
0.75mm ²	AWG18	1.3	8mm
1mm ²	AWG17	1.45	8mm
1.5mm ²	AWG15	1.75	8mm
2.5mm ²	AWG13	2.25	6mm

Contact resistance $\leq 3m\Omega$

For crimp tool and removal tool, see page P25-01

HMDD-017 Modular Insert-Crimp Termination

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 17

Insert

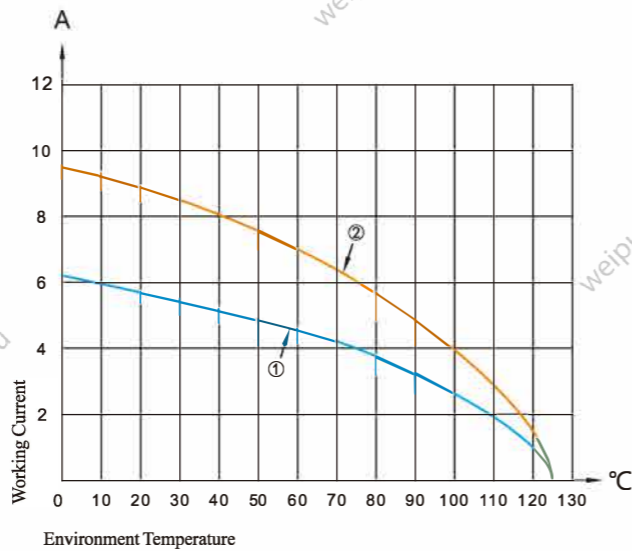
Rated Current	10A (see current load diagram)
Rated Voltage	160V
Rated Pulse Voltage	2.5kV
Pollution Degree	3
Complies with UL/CSA rated voltage	250V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 3m\Omega$
Termination	Crimp Termination
Wire Size	0.14-2.5 mm ² 26-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① 24BHoods/Housings require 6 modules, wire size: 1.0mm²
② 24BHoods/Housings require 6 modules, wire size: 1.5mm²

HMDD-017 Modular Insert-Crimp Termination 17

10A 160V 2.5kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~2.5	male 192 200 017 3000	male HMDD-017-MC	
		female 192 201 017 3000	female HMDD-017-FC	

Crimp Contact	male		female		Drawings (mm)																												
	Product Code	Part Number	Product Code	Part Number																													
silver-plated 	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG																													
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG																													
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG																													
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG																													
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG																													
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG																													
gold-plated 	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU	<table border="1"> <thead> <tr> <th>wire size</th> <th>AWG</th> <th>Ø</th> <th>stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37mm²</td> <td>AWG26-22</td> <td>0.9</td> <td>8mm</td> </tr> <tr> <td>0.5mm²</td> <td>AWG20</td> <td>1.1</td> <td>8mm</td> </tr> <tr> <td>0.75mm²</td> <td>AWG18</td> <td>1.3</td> <td>8mm</td> </tr> <tr> <td>1mm²</td> <td>AWG17</td> <td>1.45</td> <td>8mm</td> </tr> <tr> <td>1.5mm²</td> <td>AWG15</td> <td>1.75</td> <td>8mm</td> </tr> <tr> <td>2.5mm²</td> <td>AWG13</td> <td>2.25</td> <td>8mm</td> </tr> </tbody> </table> <p>Contact resistance $\leq 3m\Omega$</p>	wire size	AWG	Ø	stripping length	0.14-0.37mm ²	AWG26-22	0.9	8mm	0.5mm ²	AWG20	1.1	8mm	0.75mm ²	AWG18	1.3	8mm	1mm ²	AWG17	1.45	8mm	1.5mm ²	AWG15	1.75	8mm	2.5mm ²	AWG13	2.25	8mm
	wire size	AWG	Ø	stripping length																													
	0.14-0.37mm ²	AWG26-22	0.9	8mm																													
	0.5mm ²	AWG20	1.1	8mm																													
	0.75mm ²	AWG18	1.3	8mm																													
	1mm ²	AWG17	1.45	8mm																													
1.5mm ²	AWG15	1.75	8mm																														
2.5mm ²	AWG13	2.25	8mm																														
191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU																														
191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU																														
191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU																														
191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU																														
191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU																														

For crimp tool and removal tool, see page P25-01

HMDS-025 Modular Insert with High Density

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 25

Insert

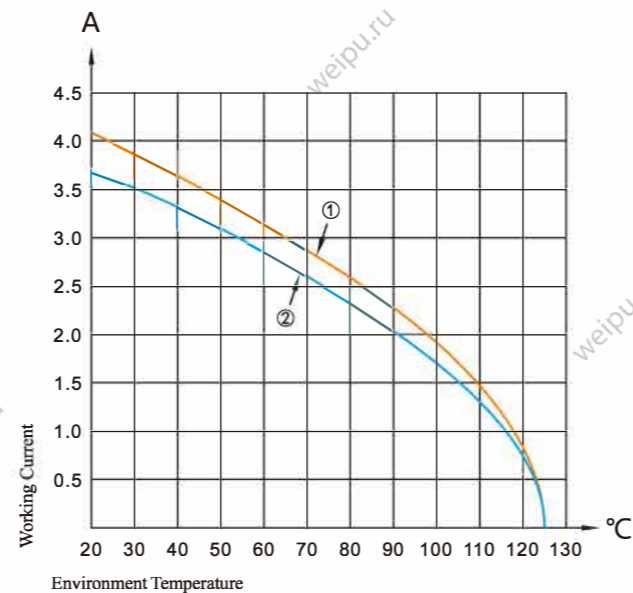
Rated Current	4A (see current load diagram)
Rated Voltage	50V
Rated Pulse Voltage	0.8kV
Pollution Degree	3
Complies with UL/CSA rated voltage	30V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UL94)	V-0
Mating Cycle	≥ 500

Contact

Material	Copper Alloy
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 10m\Omega$
Termination	Crimp Termination
Wire Size	0.09-0.82 mm ² 28-18AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- ① 24BHoods/Housings require 6 modules, wire size: 0.5mm²(Turned Pin)
② 24BHoods/Housings require 6 modules, wire size: 0.5mm²(Stamping Pin)

HMDS-025 Modular Insert with High Density 25

4A 50V 0.8kV 3

can be used with frames and all other modular products

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.09~0.82	male 192 200 025 3000	male HMDS-025-MC	
		female 192 201 025 3000	female HMDS-025-FC	

Crimp Contact	male		female		Drawings (mm)																																												
	Product Code	Part Number	Product Code	Part Number																																													
silver-plated 	191 100 005 0010	YJ1.0-14.8-0.25AG	191 200 005 0010	YK1.0-14.4-0.25AG																																													
	191 100 005 0020	YJ1.0-14.8-0.33AG	191 200 005 0020	YK1.0-14.4-0.33AG																																													
	191 100 005 0050	YJ1.0-14.8-0.52AG	191 200 005 0050	YK1.0-14.4-0.52AG																																													
	191 100 005 0070	YJ1.0-14.0-0.82AG	191 200 005 0070	YK1.0-13.6-0.82AG																																													
gold-plated 	191 110 005 0010	YJ1.0-14.8-0.25AU	191 210 005 0010	YK1.0-14.4-0.25AU	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> <th>e</th> <th>f</th> </tr> </thead> <tbody> <tr><td>8.1</td><td>4.0</td><td>14.8</td><td>0.64</td><td>1.66</td><td>14.4</td></tr> <tr><td>8.1</td><td>4.0</td><td>14.8</td><td>0.90</td><td>1.66</td><td>14.4</td></tr> <tr><td>8.1</td><td>4.0</td><td>14.8</td><td>1.12</td><td>1.66</td><td>14.4</td></tr> <tr><td>8.23</td><td>4.2</td><td>14.0</td><td>1.35</td><td>1.75</td><td>13.6</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>wire size</th> <th>stripping length</th> </tr> </thead> <tbody> <tr><td>0.09-0.25mm²</td><td>AWG28-23</td><td>5mm</td></tr> <tr><td>0.13-0.33mm²</td><td>AWG26-22</td><td>5mm</td></tr> <tr><td>0.33-0.52mm²</td><td>AWG22-20</td><td>5mm</td></tr> <tr><td>0.52-0.82mm²</td><td>AWG20-18</td><td>5mm</td></tr> </tbody> </table> <p>Contact resistance $\leq 1m\Omega$</p>	a	b	c	d	e	f	8.1	4.0	14.8	0.64	1.66	14.4	8.1	4.0	14.8	0.90	1.66	14.4	8.1	4.0	14.8	1.12	1.66	14.4	8.23	4.2	14.0	1.35	1.75	13.6	wire size	stripping length	0.09-0.25mm ²	AWG28-23	5mm	0.13-0.33mm ²	AWG26-22	5mm	0.33-0.52mm ²	AWG22-20	5mm	0.52-0.82mm ²	AWG20-18	5mm
	a	b	c	d		e	f																																										
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0.52-0.82mm ²	AWG20-18	5mm																																															
191 110 005 0020	YJ1.0-14.8-0.33AU	191 210 005 0020	YK1.0-14.4-0.33AU																																														
191 110 005 0050	YJ1.0-14.8-0.52AU	191 210 005 0050	YK1.0-14.4-0.52AU																																														
191 110 005 0070	YJ1.0-14.0-0.82AU	191 210 005 0070	YK1.0-13.6-0.82AU																																														

For crimp tool and removal tool, see page P25-01

HM-USB Modular Insert

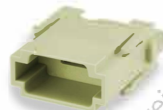
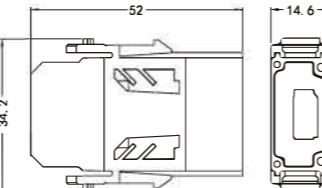

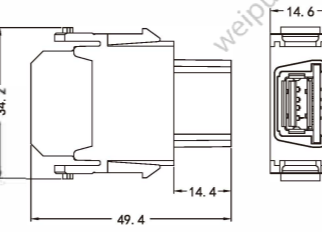
Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 4

Insert

Rated Current	1A (see current load diagram)	Insulation resistance	$\geq 10^{10} \Omega$
Rated Voltage	50V	Material	Polycarbonate
Rated Pulse Voltage	0.8kV	Working Temperature	-40°C~85°C
Pollution Degree	3	Flammability Rating (UL94)	V-0
Complies with UL/CSA rated voltage	30V	Mating Cycle	≥ 500

can be used with frames and all other modular products

Insert	Product Code	Part Number	Drawings (mm)
 USB 3.0 male	male 192 210 000 0000	male HM-USB-M	
 USB 3.0 female	female 192 211 000 0000	female HM-USB-F	

HM-RJ45 Modular Insert

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 8


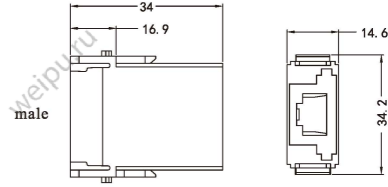
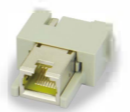
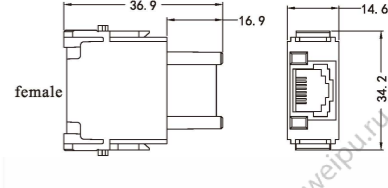

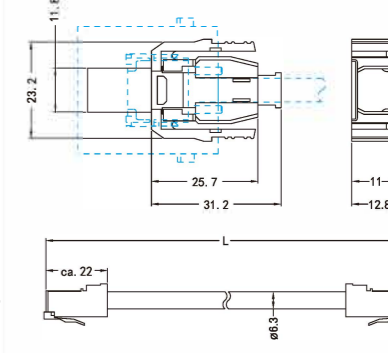
Insert

Rated Current	1A (see current load diagram)	Insulation resistance	$\geq 10^{10} \Omega$
Rated Voltage	50V	Material	Polycarbonate
Rated Pulse Voltage	0.8kV	Working Temperature	-40°C~85°C
Pollution Degree	3	Flammability Rating (UL94)	V-0
Complies with UL/CSA rated voltage	30V	Mating Cycle	≥ 500

Transmission: Class E/cat 6 can reach up to 500MHz, based on ISO/IEC 24702, ISO/IEC 11801

Transmission Rate : 10/100/1000 Mbit/s

can be used with frames and all other modular products

Insert	Product Code	Part Number	Drawings (mm)
 RJ45 male	male 192 220 000 0000	male HM-RJ45-M	
 RJ45 female	female 192 231 000 0000	female HM-RJ45-F	
 Adapter	192 230 000 0000	HM-RJ45-APT/2	

HMP-002 Pneumatic module insert


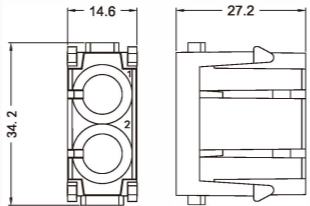
Technical Information


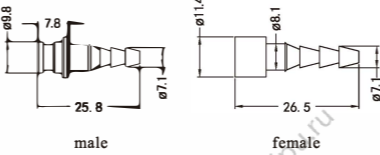


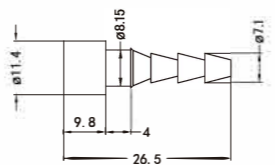
Standard: IEC 60664-1, IEC61984
No. of Contact: 2

Insert

Material	Polycarbonate	Cable OD for hose: 6mm / 1/4"
Working Temperature	-40°C~80°C	working pressure: maximum 8bar/116psi
Flammability Rating (UL94)	V-0	Mating Cycle: ≥500
Contact Material: POM	Colour: Black	Sealing ring material: fluorine rubber Lock valve material: polypropylene

can be used with frames and all other modular products

Pneumatic Module	Product Code	Part Number	Drawings (mm)
	192 200 002 0000	HMP-002	

Pin	Inner Diameter	Product Code	Part Number	Drawings (mm)
	6.0	without lock male 191 123 000 5130	PCM-6.0	
	6.0	without lock female 191 223 000 5130	PCF-6.0	
	6.0	with lock female 191 223 000 6130	PCFS-6.0	

HMP-003 Pneumatic module insert

Technical Information



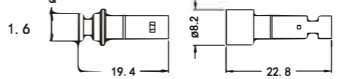


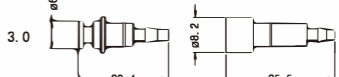

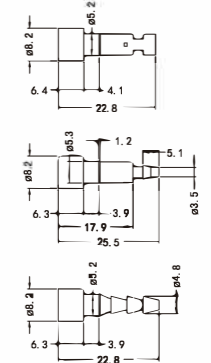
Standard: IEC 60664-1, IEC61984
No. of Contact: 3

Insert

Material	Polycarbonate	Cable OD for hose: 6mm / 1/4"
Working Temperature	-40°C~85°C	working pressure: maximum 8bar/116psi
Flammability Rating (UL94)	V-0	Mating Cycle: ≥500
Contact Material: POM	Colour: Black	Sealing ring material: fluorine rubber

can be used with frames and all other modular products

Pneumatic Module	Product Code	Part Number	Drawings (mm)
	192 200 003 0000	HMP-003	

Pin	Inner Diameter	Product Code	Part Number	Drawings (mm)
 	1.6	without lock male 191 123 000 5230	PCM-1.6	
	3.0	without lock male 191 123 000 5110	PCM-3.0	
	4.0	without lock male 191 123 000 5120	PCM-4.0	
 	1.6	without lock female 191 223 000 5230	PCF-1.6	
	3.0	without lock female 191 223 000 5110	PCF-3.0	
	4.0	without lock female 191 223 000 5120	PCF-4.0	
	1.6	with lock female 191 223 000 6230	PCFS-1.6	
	3.0	with lock female 191 223 000 6110	PCFS-3.0	
	4.0	with lock female 191 223 000 6120	PCFS-4.0	

HQ-005/0 Series-Compact Insert

Technical Information

Standard: IEC 60664-1, IEC61984
No. of Contact: 5+PE

Insert

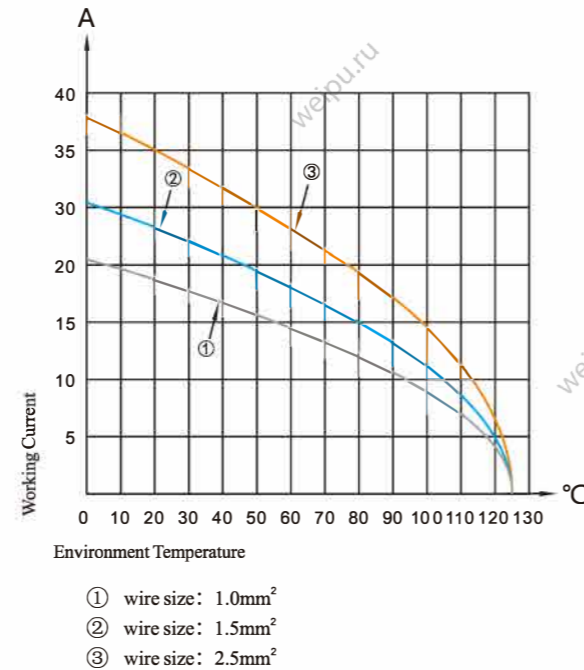
Rated Current	16A (see current load diagram)
Rated Voltage	--Pole-to-ground rated voltage: 230V --Pole-to-pole rated voltage: 400V
Rated Pulse Voltage	4kV
Pollution Degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UI94)	V-0
Complies with UL/CSA rated voltage	600V
Mating Cycle	≥ 500

Contact

Material	Copper
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 1m\Omega$
Termination	Crimp Termination
Wire Size	0.14-4mm ² 26-12AWG
Termination	Ground screw termination
Wire Size	2.5mm ² 13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



HQ-005/0 Series-Compact Insert

5+⊕

16A 230/400V 4kV

Use with 3A hoods/housings, refer to P15-02—P15-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~4	male 190 070 005 3000	male HQ-005/0-MC	
		female 190 071 005 3000	female HQ-005/0-FC	

Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	
	191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG	
	191 100 016 0060	YJ2.5-25-0.75AG	191 200 016 0060	YK2.5-22-0.75AG	
	191 100 016 0080	YJ2.5-25-1.0AG	191 200 016 0080	YK2.5-22-1.0AG	
	191 100 016 0090	YJ2.5-25-1.5AG	191 200 016 0090	YK2.5-22-1.5AG	
	191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG	
	191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG	
	191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG	
	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU	
	191 110 016 0040	YJ2.5-25-0.5AU	191 210 016 0040	YK2.5-22-0.5AU	
gold-plated	191 110 016 0060	YJ2.5-25-0.75AU	191 210 016 0060	YK2.5-22-0.75AU	
	191 110 016 0080	YJ2.5-25-1.0AU	191 210 016 0080	YK2.5-22-1.0AU	
	191 110 016 0090	YJ2.5-25-1.5AU	191 210 016 0090	YK2.5-22-1.5AU	
	191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU	
	191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU	
	191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU	

Marks	wire size (mm ²)	AWG
Without Groove	0.14~0.37	AWG26~22
Without Groove	0.5	AWG20
With 1 Groove	0.75	AWG18
With 2 Groove	1	AWG18
With 3 Groove	1.5	AWG16
Wide Groove	2.5	AWG14
Without Groove	3	AWG12
Without Groove	4	AWG12

Contact resistance $\leq 1m\Omega$

HQ-007/0 Series-Compact Insert

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 7+PE

Insert

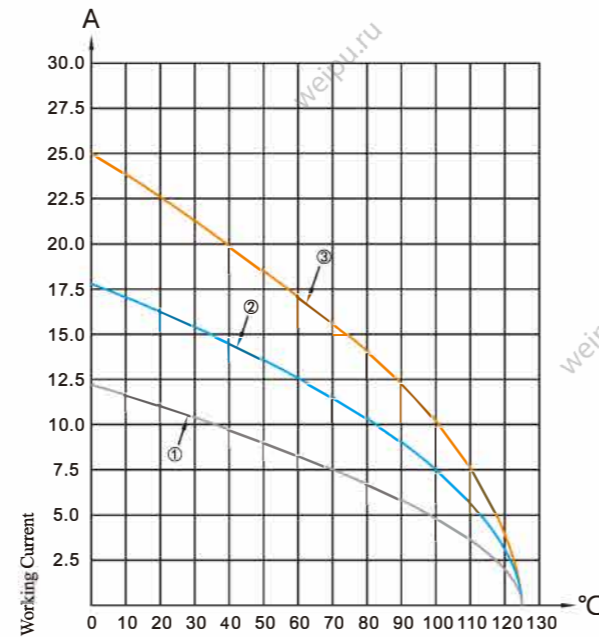
Rated Current	10A (see current load diagram)
Rated Voltage	400V
Rated Pulse Voltage	6kV
Pollution Degree	3
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Working Temperature	-40°C~125°C
Flammability Rating (UI94)	V-0
Complies with UL/CSA rated voltage	600V
Mating Cycle	≥ 500

Contact

Material	Copper
Plating	Gold-plated, Silver-plated
Contact resistance	$\leq 3m\Omega$
Termination	Crimp Termination
Wire Size	0.14-2.5mm ² 26-13AWG
Termination	Ground screw termination
Wire Size	2.5mm ² 13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- Environment Temperature
- ① wire size: 0.75mm²
 - ② wire size: 1.5mm²
 - ③ wire size: 2.5mm²

HQ-007/0 Series-Compact Insert

7+⊕

10A 400V 6kV 3

Use with 3A hoods/housings, refer to P15-02—P15-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~2.5	male 190 070 007 3000	male HQ-007/0-MC	
		female 190 071 007 3000	female HQ-007/0-FC	

Crimp Contact	male		female		Drawings (mm)																					
	Product Code	Part Number	Product Code	Part Number																						
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG																						
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG																						
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG																						
	191 100 010 0080	YJ1.6-25-1.5AG	191 200 010 0080	YK1.6-21.5-1.0AG																						
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG																						
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG																						
gold-plated	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU	<table border="1"> <thead> <tr> <th>wire size</th> <th>ø</th> <th>stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37mm²</td> <td>AWG26-22</td> <td>0.9</td> </tr> <tr> <td>0.5mm²</td> <td>AWG20</td> <td>1.1</td> </tr> <tr> <td>0.75mm²</td> <td>AWG18</td> <td>1.3</td> </tr> <tr> <td>1mm²</td> <td>AWG17</td> <td>1.45</td> </tr> <tr> <td>1.5mm²</td> <td>AWG15</td> <td>1.75</td> </tr> <tr> <td>2.5mm²</td> <td>AWG13</td> <td>2.25</td> </tr> </tbody> </table>	wire size	ø	stripping length	0.14-0.37mm ²	AWG26-22	0.9	0.5mm ²	AWG20	1.1	0.75mm ²	AWG18	1.3	1mm ²	AWG17	1.45	1.5mm ²	AWG15	1.75	2.5mm ²	AWG13	2.25
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191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU																							
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For crimp tool and removal tool, see page P25-01 Coding elements see pages P14-01 to P14-02

HQ-012/0 Series-Compact Insert

Technical Information

Standard: IEC 60664-1、IEC61984
No. of Contact: 12+E

Insert

Rated Current 10A (see current load diagram)

Rated Voltage 400V

Rated Pulse Voltage 6kV

Pollution Degree 3
Pollution level 2: the parameters are 10A 400/690V 6kV

Insulation resistance $\geq 10^{10} \Omega$

Material Polycarbonate

Working Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$

Flammability Rating (UL94) V-0

Complies with UL/CSA rated voltage 600V

Mating Cycle ≥ 500

Contact

Material Copper

Plating Gold-plated, Silver-plated

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

Termination **Crimp Termination**

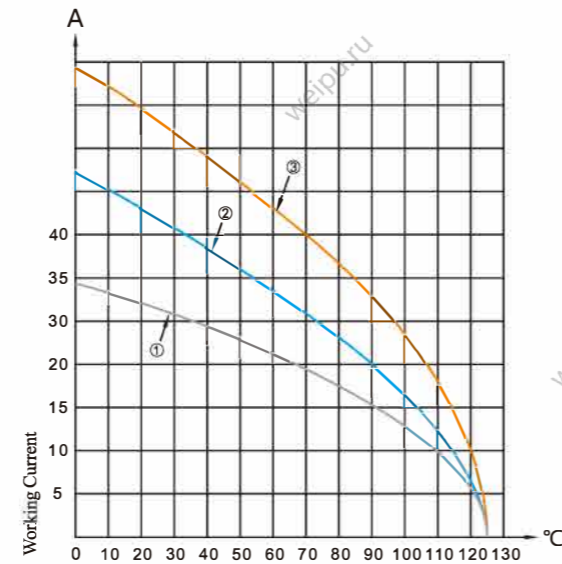
Wire Size 0.14-2.5mm² 26-13AWG

Termination **Ground screw termination**

Wire Size 0.5-2.5mm² 20-13AWG

Current-Carrying Capacity

The current carrying capacity is limited by the thermal properties of the terminal materials and the insulation materials. Test and control procedures are in accordance with IEC 60512-5-2



- Environment Temperature
- ① wire size: 0.75mm²
 - ② wire size: 1.5mm²
 - ③ wire size: 2.5mm²

HQ-012/0 Series-Compact Insert

12+⊕

10A 400V 6kV 3

Use with 3A hoods/housings, refer to P15-02—P15-05

Insert	Wire Size (mm ²)	Product Code	Part Number	Drawings (mm)
Crimp Termination Contact surface: silver-plated, gold-plated	0.14~2.5	male 190 070 0 12 3000	male HQ-012/0-MC	
		female 190 071 0 12 3000	female HQ-012/0-FC	

Crimp Contact	male		female		Drawings (mm)
	Product Code	Part Number	Product Code	Part Number	
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG	
	191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG	
	191 100 010 0060	YJ1.6-25-0.75AG	191 200 010 0060	YK1.6-21.5-0.75AG	
	191 100 010 0080	YJ1.6-25-1.0AG	191 200 010 0080	YK1.6-21.5-1.0AG	
	191 100 010 0090	YJ1.6-25-1.5AG	191 200 010 0090	YK1.6-21.5-1.5AG	
	191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG	
gold-plated	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU	
	191 110 010 0040	YJ1.6-25-0.5AU	191 210 010 0040	YK1.6-21.5-0.5AU	
	191 110 010 0060	YJ1.6-25-0.75AU	191 210 010 0060	YK1.6-21.5-0.75AU	
	191 110 010 0080	YJ1.6-25-1.0AU	191 210 010 0080	YK1.6-21.5-1.0AU	
	191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU	
	191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU	

wire size	ø	stripping length
0.14-0.37mm ²	AWG26-22	0.9
0.5mm ²	AWG20	1.1
0.75mm ²	AWG18	1.3
1mm ²	AWG17	1.45
1.5mm ²	AWG15	1.75
2.5mm ²	AWG13	2.25

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

For crimp tool and removal tool, see page P25-01 Coding elements see pages P14-01 to P14-02

Crimp Contact

5A crimp contacts for HM inserts

Crimp Contact	male		female		Drawings (mm)																														
	Product Code	Part Number	Product Code	Part Number																															
silver-plated	191 100 005 0010	YJ1.0-14.8-0.25AG	191 200 005 0010	YK1.0-14.4-0.25AG	<table border="1"> <tr><td>a</td><td>b</td><td>c</td><td>d</td><td>e</td><td>f</td></tr> <tr><td>8.1</td><td>4.0</td><td>14.8</td><td>0.64</td><td>1.66</td><td>14.4</td></tr> <tr><td>8.1</td><td>4.0</td><td>14.8</td><td>0.90</td><td>1.66</td><td>14.4</td></tr> <tr><td>8.1</td><td>4.0</td><td>14.8</td><td>1.12</td><td>1.66</td><td>14.4</td></tr> <tr><td>8.23</td><td>4.2</td><td>14.0</td><td>1.35</td><td>1.75</td><td>13.6</td></tr> </table>	a	b	c	d	e	f	8.1	4.0	14.8	0.64	1.66	14.4	8.1	4.0	14.8	0.90	1.66	14.4	8.1	4.0	14.8	1.12	1.66	14.4	8.23	4.2	14.0	1.35	1.75	13.6
	a	b	c	d		e	f																												
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191 100 005 0050	YJ1.0-14.8-0.52AG	191 200 005 0050	YK1.0-14.4-0.52AG																																
191 100 005 0070	YJ1.0-14.0-0.82AG	191 200 005 0070	YK1.0-13.6-0.82AG																																
gold-plated	191 110 005 0010	YJ1.0-14.8-0.25AU	191 210 005 0010	YK1.0-14.4-0.25AU	<table border="1"> <tr><th>wire size</th><th>stripping length</th></tr> <tr><td>0.09-0.25mm²</td><td>AWG28-23</td><td>5mm</td></tr> <tr><td>0.13-0.33mm²</td><td>AWG26-22</td><td>5mm</td></tr> <tr><td>0.33-0.52mm²</td><td>AWG22-20</td><td>5mm</td></tr> <tr><td>0.52-0.82mm²</td><td>AWG20-18</td><td>5mm</td></tr> </table> <p>Contact resistance ≤ 10mΩ</p>	wire size	stripping length	0.09-0.25mm ²	AWG28-23	5mm	0.13-0.33mm ²	AWG26-22	5mm	0.33-0.52mm ²	AWG22-20	5mm	0.52-0.82mm ²	AWG20-18	5mm																
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191 110 005 0070	YJ1.0-14.0-0.82AU	191 210 005 0070	YK1.0-13.6-0.82AU																																

10A crimp contacts for HD、HDD、HM、HK、HQ inserts

Crimp Contact	male		female		Drawings (mm)																											
	Product Code	Part Number	Product Code	Part Number																												
silver-plated	191 100 010 0030	YJ1.6-25-0.37AG	191 200 010 0030	YK1.6-21.5-0.37AG	<table border="1"> <tr><th>wire size</th><th>ø</th><th>stripping length</th></tr> <tr><td>0.14-0.37mm²</td><td>AWG26-22</td><td>0.9</td><td>8mm</td></tr> <tr><td>0.5mm²</td><td>AWG20</td><td>1.1</td><td>8mm</td></tr> <tr><td>0.75mm²</td><td>AWG18</td><td>1.3</td><td>8mm</td></tr> <tr><td>1mm²</td><td>AWG17</td><td>1.45</td><td>8mm</td></tr> <tr><td>1.5mm²</td><td>AWG15</td><td>1.75</td><td>8mm</td></tr> <tr><td>2.5mm²</td><td>AWG13</td><td>2.25</td><td>6mm</td></tr> </table> <p>Contact resistance ≤ 3mΩ</p>	wire size	ø	stripping length	0.14-0.37mm ²	AWG26-22	0.9	8mm	0.5mm ²	AWG20	1.1	8mm	0.75mm ²	AWG18	1.3	8mm	1mm ²	AWG17	1.45	8mm	1.5mm ²	AWG15	1.75	8mm	2.5mm ²	AWG13	2.25	6mm
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191 100 010 0040	YJ1.6-25-0.5AG	191 200 010 0040	YK1.6-21.5-0.5AG																													
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191 100 010 0100	YJ1.6-25-2.5AG	191 200 010 0100	YK1.6-21.5-2.5AG																													
gold-plated	191 110 010 0030	YJ1.6-25-0.37AU	191 210 010 0030	YK1.6-21.5-0.37AU	<table border="1"> <tr><th>wire size</th><th>ø</th><th>stripping length</th></tr> <tr><td>0.14-0.37mm²</td><td>AWG26-22</td><td>0.9</td><td>8mm</td></tr> <tr><td>0.5mm²</td><td>AWG20</td><td>1.1</td><td>8mm</td></tr> <tr><td>0.75mm²</td><td>AWG18</td><td>1.3</td><td>8mm</td></tr> <tr><td>1mm²</td><td>AWG17</td><td>1.45</td><td>8mm</td></tr> <tr><td>1.5mm²</td><td>AWG15</td><td>1.75</td><td>8mm</td></tr> <tr><td>2.5mm²</td><td>AWG13</td><td>2.25</td><td>6mm</td></tr> </table> <p>Contact resistance ≤ 3mΩ</p>	wire size	ø	stripping length	0.14-0.37mm ²	AWG26-22	0.9	8mm	0.5mm ²	AWG20	1.1	8mm	0.75mm ²	AWG18	1.3	8mm	1mm ²	AWG17	1.45	8mm	1.5mm ²	AWG15	1.75	8mm	2.5mm ²	AWG13	2.25	6mm
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191 110 010 0090	YJ1.6-25-1.5AU	191 210 010 0090	YK1.6-21.5-1.5AU																													
191 110 010 0100	YJ1.6-25-2.5AU	191 210 010 0100	YK1.6-21.5-2.5AU																													

16A crimp contacts for HEE、HM、HK inserts

Crimp Contact	male		female		Drawings (mm)																										
	Product Code	Part Number	Product Code	Part Number																											
silver-plated	191 100 016 0030	YJ2.5-25-0.37AG	191 200 016 0030	YK2.5-22-0.37AG	<table border="1"> <tr><th>Marks</th><th>wire size (mm²)</th></tr> <tr><td>Without Crimp</td><td>0.14-0.37</td><td>AWG26-22</td></tr> <tr><td>Without Crimp</td><td>0.5</td><td>AWG20</td></tr> <tr><td>With 1 Crimp</td><td>0.75</td><td>AWG18</td></tr> <tr><td>With 1 Crimp</td><td>1</td><td>AWG18</td></tr> <tr><td>With 2 Crimp</td><td>1.5</td><td>AWG16</td></tr> <tr><td>With 3 Crimp</td><td>2.5</td><td>AWG14</td></tr> <tr><td>Wide Without Crimp</td><td>3</td><td>AWG12</td></tr> <tr><td>Wide Without Crimp</td><td>4</td><td>AWG12</td></tr> </table> <p>stripping length : 7.5mm</p> <p>Contact resistance ≤ 1mΩ</p>	Marks	wire size (mm ²)	Without Crimp	0.14-0.37	AWG26-22	Without Crimp	0.5	AWG20	With 1 Crimp	0.75	AWG18	With 1 Crimp	1	AWG18	With 2 Crimp	1.5	AWG16	With 3 Crimp	2.5	AWG14	Wide Without Crimp	3	AWG12	Wide Without Crimp	4	AWG12
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191 100 016 0040	YJ2.5-25-0.5AG	191 200 016 0040	YK2.5-22-0.5AG																												
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191 100 016 0100	YJ2.5-25-2.5AG	191 200 016 0100	YK2.5-22-2.5AG																												
191 100 016 0110	YJ2.5-25-3.0AG	191 200 016 0110	YK2.5-22-3.0AG																												
191 100 016 0120	YJ2.5-25-4.0AG	191 200 016 0120	YK2.5-22-4.0AG																												
gold-plated	191 110 016 0030	YJ2.5-25-0.37AU	191 210 016 0030	YK2.5-22-0.37AU	<table border="1"> <tr><th>Marks</th><th>wire size (mm²)</th></tr> <tr><td>Without Crimp</td><td>0.14-0.37</td><td>AWG26-22</td></tr> <tr><td>Without Crimp</td><td>0.5</td><td>AWG20</td></tr> <tr><td>With 1 Crimp</td><td>0.75</td><td>AWG18</td></tr> <tr><td>With 1 Crimp</td><td>1</td><td>AWG18</td></tr> <tr><td>With 2 Crimp</td><td>1.5</td><td>AWG16</td></tr> <tr><td>With 3 Crimp</td><td>2.5</td><td>AWG14</td></tr> <tr><td>Wide Without Crimp</td><td>3</td><td>AWG12</td></tr> <tr><td>Wide Without Crimp</td><td>4</td><td>AWG12</td></tr> </table> <p>stripping length : 7.5mm</p> <p>Contact resistance ≤ 1mΩ</p>	Marks	wire size (mm ²)	Without Crimp	0.14-0.37	AWG26-22	Without Crimp	0.5	AWG20	With 1 Crimp	0.75	AWG18	With 1 Crimp	1	AWG18	With 2 Crimp	1.5	AWG16	With 3 Crimp	2.5	AWG14	Wide Without Crimp	3	AWG12	Wide Without Crimp	4	AWG12
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191 110 016 0100	YJ2.5-25-2.5AU	191 210 016 0100	YK2.5-22-2.5AU																												
191 110 016 0110	YJ2.5-25-3.0AU	191 210 016 0110	YK2.5-22-3.0AU																												
191 110 016 0120	YJ2.5-25-4.0AU	191 210 016 0120	YK2.5-22-4.0AU																												

Crimp Contact

40A crimp contacts for HM、HK inserts

Crimp Contact	male		female		Drawings (mm)																								
	Product Code	Part Number	Product Code	Part Number																									
silver-plated	191 100 040 0090	YJ4.0-29.1-1.5AG	191 200 040 0090	YK4.0-23.4-1.5AG	<table border="1"> <tr><th>Cross Section</th><th>AWG</th><th>ø</th><th>stripping length</th></tr> <tr><td>1.5mm²</td><td>15</td><td>1.75</td><td>9mm</td></tr> <tr><td>2.5mm²</td><td>13</td><td>2.25</td><td>9mm</td></tr> <tr><td>4mm²</td><td>11</td><td>2.85</td><td>9.6mm</td></tr> <tr><td>6mm²</td><td>9</td><td>3.5</td><td>9.6mm</td></tr> <tr><td>10mm²</td><td>7</td><td>4.5</td><td>15mm</td></tr> </table> <p>stripping length A=15mm for Cable OD≥5mm stripping length A=18mm for Cable OD≥6.4mm</p> <p>Contact resistance ≤ 1mΩ</p>	Cross Section	AWG	ø	stripping length	1.5mm ²	15	1.75	9mm	2.5mm ²	13	2.25	9mm	4mm ²	11	2.85	9.6mm	6mm ²	9	3.5	9.6mm	10mm ²	7	4.5	15mm
	Cross Section	AWG	ø	stripping length																									
	1.5mm ²	15	1.75	9mm																									
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191 100 040 0100	YJ4.0-29.1-2.5AG	191 200 040 0200	YK4.0-23.4-2.5AG																										
191 100 040 0120	YJ4.0-29.1-4.0AG	191 200 040 0120	YK4.0-23.4-4.0AG																										
191 100 040 0130	YJ4.0-29.1-6.0AG	191 200 040 0130	YK4.0-23.4-6.0AG																										
gold-plated	191 100 040 0140	YJ4.0-29.1-10.0AG	191 200 040 0140	YK4.0-23.4-10.0AG	<table border="1"> <tr><th>Cross Section</th><th>AWG</th><th>ø</th><th>stripping length</th></tr> <tr><td>1.5mm²</td><td>15</td><td>1.75</td><td>9mm</td></tr> <tr><td>2.5mm²</td><td>13</td><td>2.25</td><td>9mm</td></tr> <tr><td>4mm²</td><td>11</td><td>2.85</td><td>9.6mm</td></tr> <tr><td>6mm²</td><td>9</td><td>3.5</td><td>9.6mm</td></tr> <tr><td>10mm²</td><td>7</td><td>4.5</td><td>15mm</td></tr> </table> <p>stripping length A=15mm for Cable OD≥5mm stripping length A=18mm for Cable OD≥6.4mm</p> <p>Contact resistance ≤ 1mΩ</p>	Cross Section	AWG	ø	stripping length	1.5mm ²	15	1.75	9mm	2.5mm ²	13	2.25	9mm	4mm ²	11	2.85	9.6mm	6mm ²	9	3.5	9.6mm	10mm ²	7	4.5	15mm
	Cross Section	AWG	ø	stripping length																									
	1.5mm ²	15	1.75	9mm																									
	2.5mm ²	13	2.25	9mm																									
	4mm ²	11	2.85	9.6mm																									
6mm ²	9	3.5	9.6mm																										
10mm ²	7	4.5	15mm																										
191 110 040 0090	YJ4.0-29.1-1.5AU	191 210 040 0090	YK4.0-23.4-1.5AU																										
191 110 040 0100	YJ4.0-29.1-2.5AU	191 210 040 0100	YK4.0-23.4-2.5AU																										
191 110 040 0120	YJ4.0-29.1-4.0AU	191 210 040 0120	YK4.0-23.4-4.0AU																										
191 110 040 0130	YJ4.0-29.1-6.0AU	191 210 040 0130	YK4.0-23.4-6.0AU																										
191 110 040 0140	YJ4.0-29.1-10.0AU	191 210 040 0140	YK4.0-23.4-10.0AU																										

200A crimp contacts for HM inserts

Crimp Contact	male		female		Drawings (mm)															
	Product Code	Part Number	Product Code	Part Number																
silver-plated	191 100 200 0160	YJ9.5-42.3-25AG	191 200 200 0160	YK9.5-40.1-25AG	<table border="1"> <tr><th>Cross Section</th><th>ø</th><th>Glass Fiber Length</th></tr> <tr><td>25mm²</td><td>7</td><td>17.9mm</td></tr> <tr><td>35mm²</td><td>8.2</td><td>17.9mm</td></tr> <tr><td>50mm²</td><td>10</td><td>17.9mm</td></tr> <tr><td>70mm²</td><td>11.5</td><td>17.9mm</td></tr> </table> <p>stranded wires comply with IEC 60228-5</p> <p>Contact resistance ≤ 0.3mΩ</p>	Cross Section	ø	Glass Fiber Length	25mm ²	7	17.9mm	35mm ²	8.2	17.9mm	50mm ²	10	17.9mm	70mm ²	11.5	17.9mm
	Cross Section	ø	Glass Fiber Length																	
	25mm ²	7	17.9mm																	
	35mm ²	8.2	17.9mm																	
	50mm ²	10	17.9mm																	
70mm ²	11.5	17.9mm																		
191 100 200 0170	YJ9.5-42.3-35AG	191 200 200 0170	YK9.5-40.1-35AG																	
191 100 200 0180	YJ9.5-42.3-50AG	191 200 200 0180	YK9.5-40.1-50AG																	
191 100 200 0190	YJ9.5-42.3-70AG	191 200 200 0190	YK9.5-40.1-70AG																	
191 100 200 0190	YJ9.5-42.3-70AG	191 200 200 0190	YK9.5-40.1-70AG																	

Safety delay pin

Crimp Contact	wire size(mm ²)	Product Code	Part Number	Drawings (mm)
silver-plated	1	191 100 016 4080	YJ2.5-22.8-1.0AG	<p>Short delay pin can delay the contact time in order to protect the circuit from arcing</p>
	1.5	191 100 016 4090	YJ2.5-22.8-1.5AG	
	2.5	191 100 016 4100	YJ2.5-22.8-2.5AG	

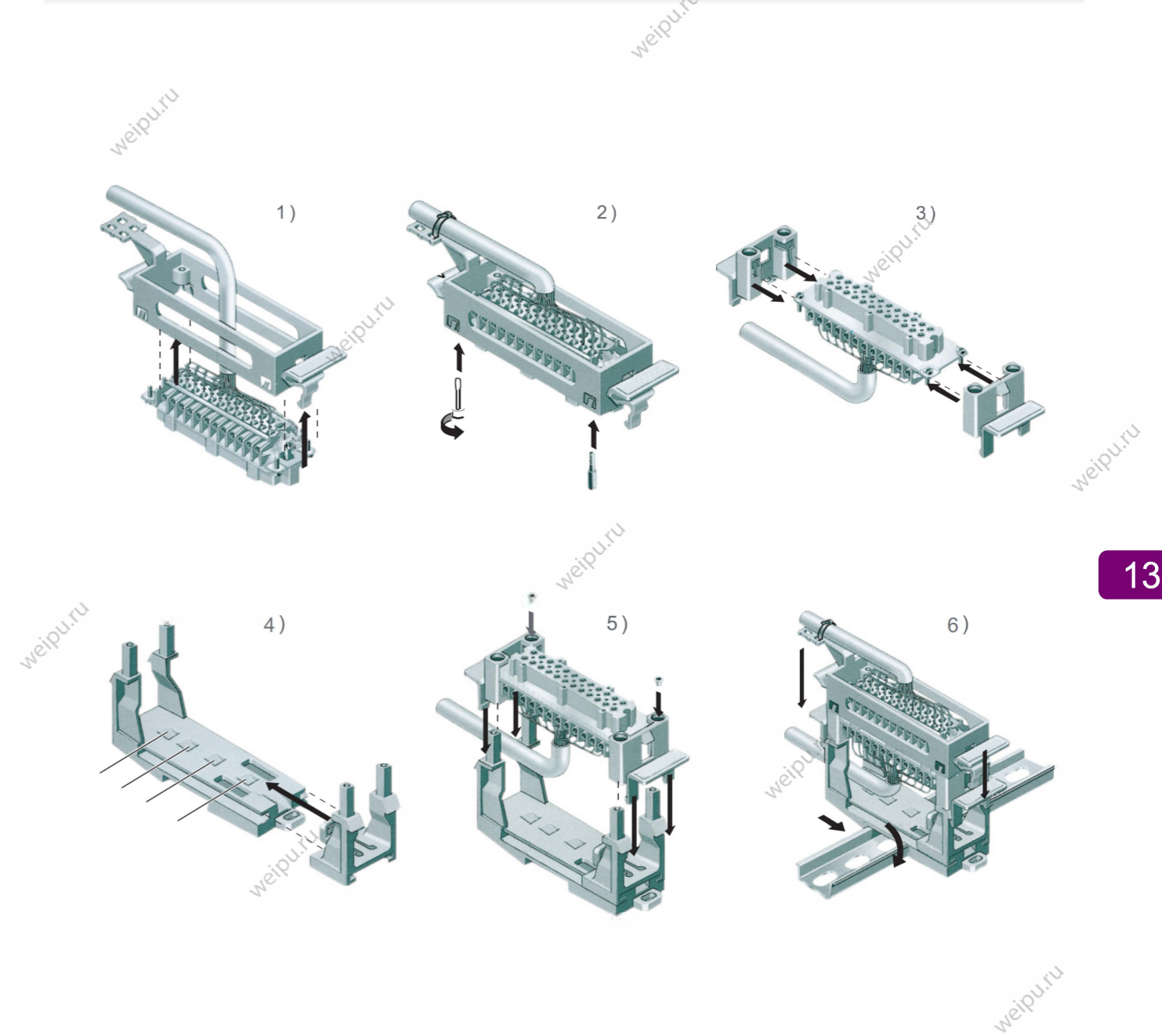
Rail Bracket Suite

Suite	Series	Part Number	Product Code	Drawings (mm)
Rail Bracket Suite, including bases and fixed mounts	6B	H6B-CC	193 001 006 0000	
	10B	H10B-CC	193 001 010 0000	
	16B	H16B-CC	193 001 016 0000	
	24B	H24B-CC	193 001 024 0000	


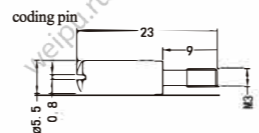
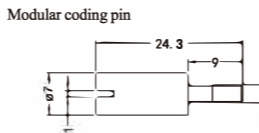

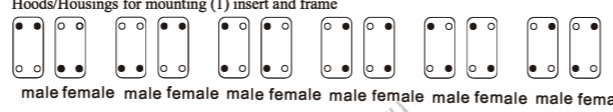
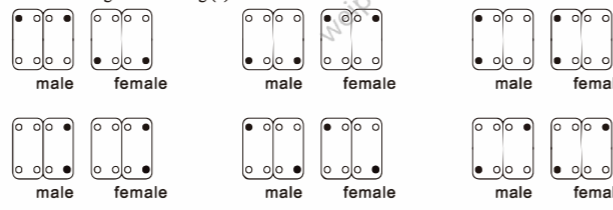


Rail bracket


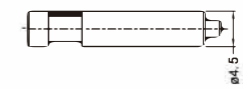

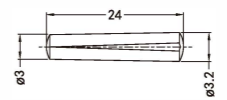
Installation Steps



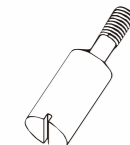
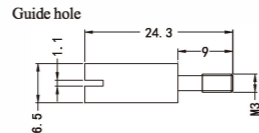
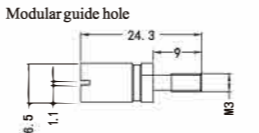

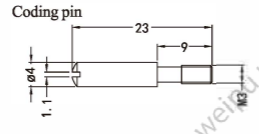
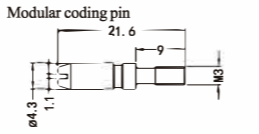
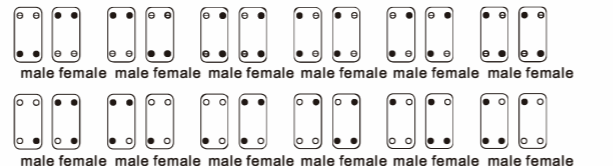
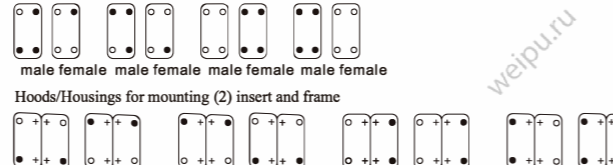
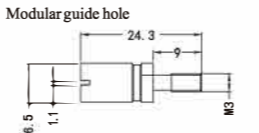
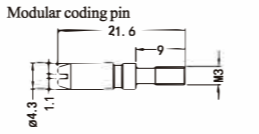
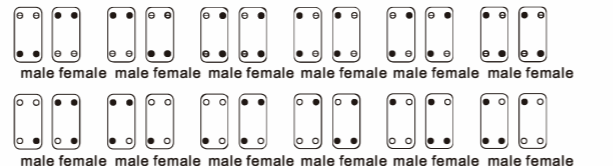
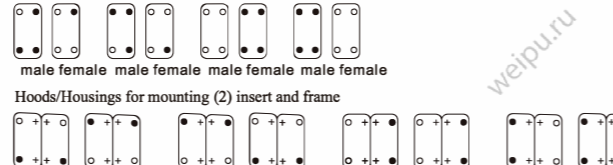
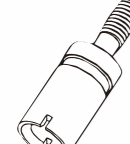
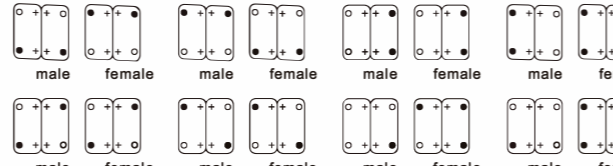
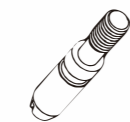
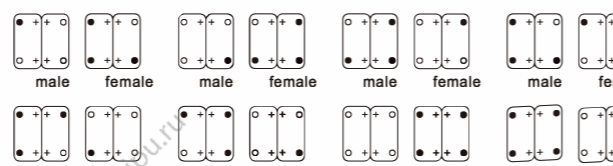
Coding pin

Numbering with coding pin	Part Number	Product Code	Coding pin	Modular coding pin
M3 coding pin 	CODE-M3	193 002 001 1000		
M3 Modular coding pin 	MCODE-M3	193 002 002 1000	<p>Hoods/Housings for mounting (1) insert and frame</p>  <p>male female male female male female male female male female</p> <p>Hoods/Housings for mounting (2) insert and frame</p>  <p>male female male female male female male female</p> <p>● Coding pin ○ Guide pin</p>	

Coding pin

	Part Number	Product Code	
E-type coding pin 	CODE-E	193 002 007 0000	 <ol style="list-style-type: none"> Use this coding pin to avoid mis-insertion of the same connector Applicable to HEC, HEE, HQ-005/0, HM-006, HM-008 When using a coding pin, the corresponding hole of the male end cannot be installed with a pin
D-type coding pin 	CODE-D	193 002 008 0000	 <ol style="list-style-type: none"> Use this coding pin to avoid mis-insertion of the same connector Applicable to HD, HDD, HMD-012, HMDD-017, HQ-7/0, HQ-012/0 When using a coding pin, the corresponding hole of the male end cannot be installed with a pin

Numbering with guide pin and guide hole

Numbering with guide pin and guide hole	Part Number	Product Code	Guide hole	Modular guide hole
M3 Guide hole 	GBUSH-M3	193 002 003 1000		
M3 Guide pin 	GPIN-M3	193 002 005 1000	<p>Guide hole</p>  <p>Coding pin</p>  <p>Hoods/Housings for mounting (1) insert and frame</p>  <p>male female male female male female male female male female</p> <p>Hoods/Housings for mounting (2) insert and frame</p>  <p>male female male female male female male female</p>	<p>Modular guide hole</p>  <p>Modular coding pin</p>  <p>Hoods/Housings for mounting (1) insert and frame</p>  <p>male female male female male female male female male female</p> <p>Hoods/Housings for mounting (2) insert and frame</p>  <p>male female male female male female male female</p>
M3 Modular guide hole 	MGBUSH-M3	193 002 004 1000	<p>Hoods/Housings for mounting (2) insert and frame</p>  <p>male female male female male female male female</p>	
M3 Modular guide pin 	MGPIN-M3	193 002 006 1000	<p>Hoods/Housings for mounting (2) insert and frame</p>  <p>male female male female male female male female</p> <p>● Coding pin ○ Guide pin + normal screws</p>	

Technical Specification for Hoods/Housings

3A Plastic Hoods/Housings IP65

Material	Polycarbonate
Color	gray (RAL 7032)
locking elements	
-locking method	Plastic elastic compression
-Material	Polyamide
sealing element	NBR
Working Temperature	-40°C~125°C
Flammability Rating	V-0
IP rating (locked, En60529)	IP65

3A Metal Hoods/Housings IP65

Material	Die-cast zinc
Color	grey
locking elements	
-locking method	Metal elastic compression
-Material	(Iron) Galvanized/Stainless Steel
sealing element	NBR
Working Temperature	-40°C~125°C
Flammability Rating	V-0
IP rating (locked, En60529)	IP65

Plastic Hoods/Housings IP65

Material	Polyamide
Color	RAL 9005 (black)
locking elements	
-locking method	Plastic elastic compression
-Material	Polyamide
sealing element	NBR
Working Temperature	-40°C~125°C
Flammability Rating	V-0
IP rating (locked, En60529)	IP65

Metal Hoods/Housings


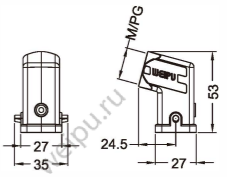

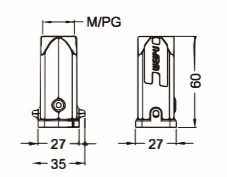

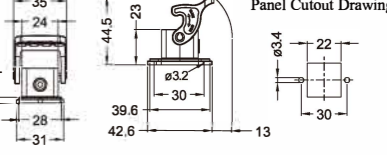

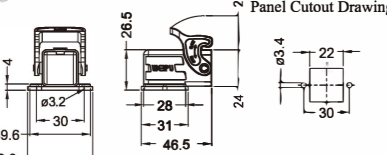

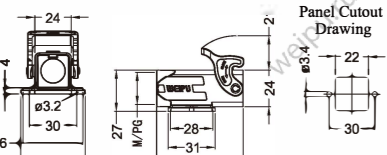

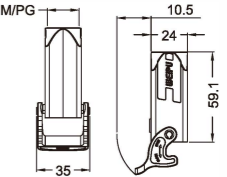
Material	Die-cast aluminum
Color	grey
locking elements	
-locking method	Metal elastic compression
-Material	see P24-02
sealing element	NBR
Working Temperature	-40°C~125°C
Flammability Rating	V-0
IP rating (locked, En60529)	IP65

IP68/IP69K

Material	Die-cast aluminum
Color	black or grey
locking elements	
-locking method	Bolted connection
-Material	Stainless steel
sealing element	NBR
Working Temperature	-40°C~125°C
Flammability Rating	V-0
IP rating (locked, En60529)	IP65/IP69K



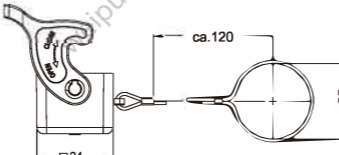



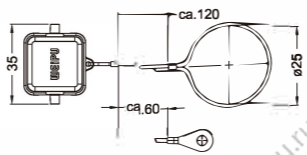



3A Plastic Hoods/Housings

IP65

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M20	171 103 010 0200	HB3A-PS-2B-M20	
	PG11	171 103 010 0110	HB3A-PS-2B-PG11	
Top Entry Hoods 	M20	171 103 040 0200	HB3A-PT-2B-M20	
	PG11	171 103 040 0110	HB3A-PT-2B-PG11	
Bulkhead Mounted Housing 	----	171 103 107 0000	HB3A-ST-1L/C	
Bulkhead Mounted Housing 	----	171 103 467 0000	HB3A-ST-1L/C-PS	
Surface Mounted Housings 	M20	171 103 137 0200	HB3A-SF-1L/C-M20	
	PG11	171 103 137 0110	HB3A-SF-1L/C-PG11	
Cable-to-Cable Housings 	M20	171 103 077 0200	HB3A-MC-1L/C-M20	
	PG11	171 103 077 0110	HB3A-MC-1L/C-PG11	


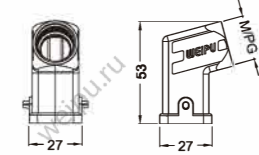

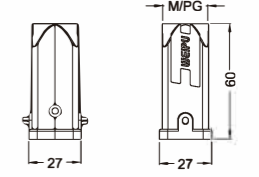

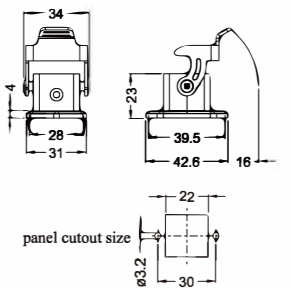

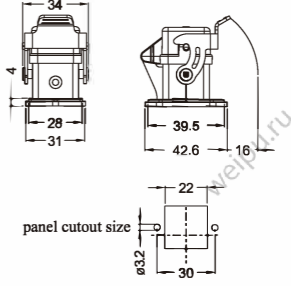
3A Plastic Hoods/Housings

IP65

	connection type	Product Code	Part Number	Drawings (mm)
plastic cover 		171 103 487 3000	HB3A-CV-1L/C-M (with male inserts)	
		171 103 487 5000	HB3A-CV-1L/C-F (with female inserts)	
plastic cover 		171 103 510 3000	HB3A-CV-2B-1M (with male inserts)	
		171 103 510 4000	HB3A-CV-2B-2M (with male inserts)	
		171 103 510 5000	HB3A-CV-2B-1F (with male inserts)	
		171 103 510 6000	HB3A-CV-2B-2F (with male inserts)	


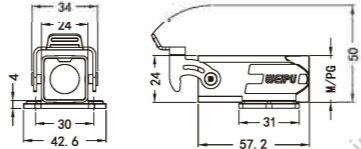

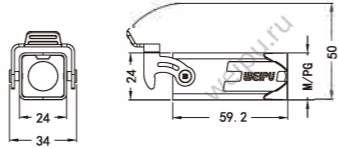
3A Metal Hoods/Housings

IP65

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M20	170 103 010 0200	HA3A-PS-2B-M20	
	PG11	170 103 010 0110	HA3A-PS-2B-PG11	
Top Entry Hoods 	M20	170 103 040 0200	HA3A-PT-2B-M20	
	PG11	170 103 040 0110	HA3A-PT-2B-PG11	
	PG13.5	170 103 040 0130	HA3A-PT-2B-PG13.5	
Bulkhead Mounted Housing 	---	170 103 106 0000	HA3A-ST-1L/W	
	---	公 170 103 126 1000	公 HA3A-ST-1L/W-MCV/M	
Bulkhead Mounted Housing 	---	母 170 103 126 2000	母 HA3A-ST-1L/W-MCV/F	
	---	171 103 466 0000	HA3A-ST-1L/W-PS	

3A Metal Hoods/Housings

IP65


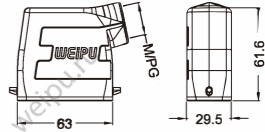

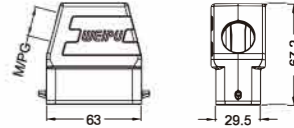

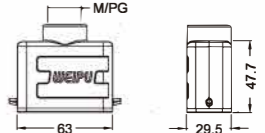

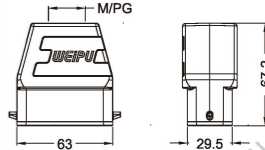

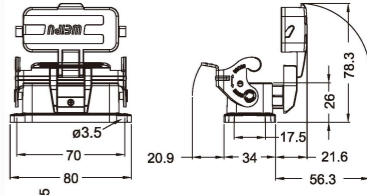
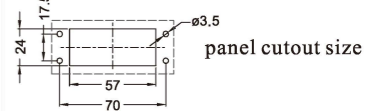
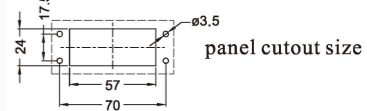
	thread	Product Code	Part Number	Drawings (mm)
Surface Mounted Housings 	PG11	panel cutout size 170 103 476 0110	HA3A-SF/ST-1L/W-PG11	
	M20	without cutout 170 103 136 0200	HA3A-SF-1L/W-M20	
	PG11	170 103 136 0110	HA3A-SF-1L/W-PG11	
	PG13.5	170 103 136 0130	HA3A-SF-1L/W-PG13.5	
Cable-to-Cable Housings 	M20	170 103 076 0200	HA3A-MC-1L/W-M20	
	PG11	170 103 076 0110	HA3A-MC-1L/W-PG11	

15

10A Metal Hoods/Housings

IP65

Lock selection, see page P24-02


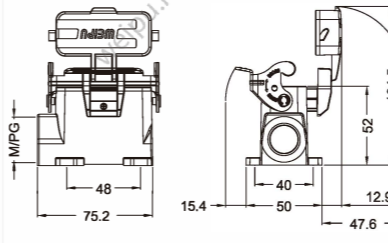
	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M20	170 110 010 0200	HA10A-PS-2B-M20	
	PG16	170 110 010 0160	HA10A-PS-2B-PG16	
Side Entry Hoods&High Structure 	M25	170 110 030 0250	HA10A-PSH-2B-M25	
	PG16	170 110 030 0160	HA10A-PSH-2B-PG16	
	PG21	170 110 030 0210	HA10A-PSH-2B-PG21	
Top Entry Hoods 	M20	170 110 040 0200	HA10A-PT-2B-M20	
	PG13.5	170 110 040 0130	HA10A-PT-2B-PG13.5	
Top Entry Hoods&High Structure 	M25	170 110 060 0250	HA10A-PTH-2B-M25	
	PG16	170 110 060 0160	HA10A-PTH-2B-PG16	
	PG21	170 110 060 0210	HA10A-PTH-2B-PG21	
Bulkhead Mounted Housing 	---	170 110 103 0000	HA10A-ST-1L/W	
	---	170 110 113 0000	HA10A-ST-1L/W-CV	
	---	170 110 123 0000	HA10A-ST-1L/W-MCV	 panel cutout size

16



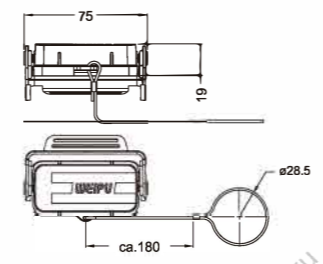


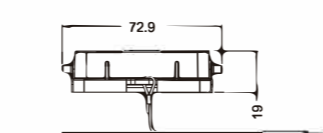

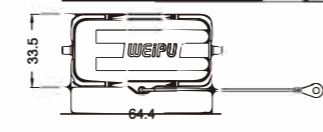
10A Metal Hoods/Housings

IP65

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)	
Surface Mounted Housings 	M20	170 110 133 0200	HA10A-SF-1L/W-M20		
	2M20	170 110 133 2200	HA10A-SF-1L/W-2M20		
	M25	170 110 133 0250	HA10A-SF-1L/W-M25		
	PG16	170 110 133 0160	HA10A-SF-1L/W-PG16		
	2PG16	170 110 133 2160	HA10A-SF-1L/W-2PG16		
	PG21	170 110 133 0210	HA10A-SF-1L/W-PG21		
	with plastic cover				
	M20	170 110 143 0200	HA10A-SF-1L/W-CV-M20		
	2M20	170 110 143 2200	HA10A-SF-1L/W-CV-2M20		
	M25	170 110 143 0250	HA10A-SF-1L/W-CV-M25		
	PG16	170 110 143 0160	HA10A-SF-1L/W-CV-PG16		
	2PG16	170 110 143 2160	HA10A-SF-1L/W-CV-2PG16		
	PG21	170 110 143 0210	HA10A-SF-1L/W-CV-PG21		
	with metal cover				
	M20	170 110 153 0200	HA10A-SF-1L/W-MCV-M20		
	2M20	170 110 153 2200	HA10A-SF-1L/W-MCV-2M20		
	M25	170 110 153 0250	HA10A-SF-1L/W-MCV-M25		
	PG16	170 110 153 0160	HA10A-SF-1L/W-MCV-PG16		
2PG16	170 110 153 2160	HA10A-SF-1L/W-MCV-2PG16			
PG21	170 110 153 0210	HA10A-SF-1L/W-MCV-PG21			

16

	connection type	Product Code	Part Number	Drawings (mm)
metal cover 	for hoods 	170 110 553 3000	HA10A-MCV-1L/W.1	
metal cover 	for housings 	170 110 530 5000	HA10A-MCV-2B/1S	
	for housings 	170 110 530 6000	HA10A-MCV-2B/2S	

16A Metal Hoods/Housings

IP65

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M20	170 116 010 0200	HA16A-PS-2B-M20	
	PG16	170 116 010 0160	HA16A-PS-2B-PG16	
Side Entry Hoods&High Structure 	M25	170 116 030 0250	HA16A-PSH-2B-M25	
	PG16	170 116 030 0160	HA16A-PSH-2B-PG16	
	PG21	170 116 030 0210	HA16A-PSH-2B-PG21	
Top Entry Hoods 	M20	170 116 040 0200	HA16A-PT-2B-M20	
	PG16	170 116 040 0160	HA16A-PT-2B-PG16	
Top Entry Hoods&High Structure 	M25	170 116 060 0250	HA16A-PTH-2B-M25	
	PG16	170 116 060 0160	HA16A-PTH-2B-PG16	
	PG21	170 116 060 0210	HA16A-PTH-2B-PG21	
Bulkhead Mounted Housing 	----	170 116 103 0000	HA16A-ST-1L/W	
	----	170 116 113 0000	HA16A-ST-1L/W-CV	
	----	170 116 123 0000	HA16A-ST-1L/W-MCV	

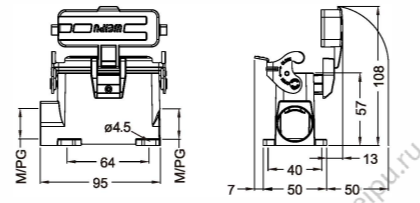
17

16A Metal Hoods/Housings

IP65

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)	
Surface Mounted Housings	M20	170 116 133 0200	HA16A-SF-1L/W-M20		
	2M20	170 116 133 2200	HA16A-SF-1L/W-2M20		
	M25	170 116 133 0250	HA16A-SF-1L/W-M25		
	2M25	170 116 133 2250	HA16A-SF-1L/W-2M25		
	PG16	170 116 133 0160	HA16A-SF-1L/W-PG16		
	2PG16	170 116 133 2160	HA16A-SF-1L/W-2PG16		
	PG21	170 116 133 0210	HA16A-SF-1L/W-PG21		
	带塑料盖				
	M20	170 116 143 0200	HA16A-SF-1L/W-CV-M20		
	2M20	170 116 143 2200	HA16A-SF-1L/W-CV-2M20		
M25	170 116 143 0250	HA16A-SF-1L/W-CV-M25			
2M25	170 116 143 2250	HA16A-SF-1L/W-CV-2M25			
PG16	170 116 143 0160	HA16A-SF-1L/W-CV-PG16			
2PG16	170 116 143 2160	HA16A-SF-1L/W-CV-2PG16			
PG21	170 116 143 0210	HA16A-SF-1L/W-CV-PG21			
带金属盖					
M20	170 116 153 0200	HA16A-SF-1L/W-MCV-M20			
2M20	170 116 153 2200	HA16A-SF-1L/W-MCV-2M20			
M25	170 116 153 0250	HA16A-SF-1L/W-MCV-M25			
2M25	170 116 153 2250	HA16A-SF-1L/W-MCV-2M25			
PG16	170 116 153 0160	HA16A-SF-1L/W-MCV-PG16			
2PG16	170 116 153 2160	HA16A-SF-1L/W-MCV-2PG16			
PG21	170 116 153 0210	HA16A-SF-1L/W-MCV-PG21			



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	connection type	Product Code	Part Number	Drawings (mm)
metal cover	for hoods	170 116 553 3000	HA16A-MCV-1L/W. 1	
metal cover	for hoods	170 116 530 5000	HA16A-MCV-2B/1S	
	for hoods	170 116 530 6000	HA16A-MCV-2B/2S	

32A Metal Hoods/Housings

IP65

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods	M25	170 132 190 0250	HA32A-PS-4B-M25	
	PG21	170 132 190 0210	HA32A-PS-4B-PG21	
Side Entry Hoods & High Structure	M32	170 132 210 0320	HA32A-PSH-4B-M32	
	PG21	170 132 210 0210	HA32A-PSH-4B-PG21	
	PG29	170 132 210 0290	HA32A-PSH-4B-PG29	
Top Entry Hoods	M25	170 132 230 0250	HA32A-PTH-4B-M25	
	M32	170 132 230 0320	HA32A-PTH-4B-M32	
	PG21	170 132 230 0210	HA32A-PTH-4B-PG21	
	PG29	170 132 230 0290	HA32A-PTH-4B-PG29	
Bulkhead Mounted Housing	M25	170 132 253 0000	HA32A-ST-2L/W	
Surface Mounted Housings	M25	170 132 263 0250	HA32A-SF-2L/W-M25	
	M32	170 132 263 0320	HA32A-SF-2L/W-M32	
	2M32	170 132 263 2320	HA32A-SF-2L/W-2M32	
	PG21	170 132 263 0210	HA32A-SF-2L/W-PG21	
	2PG21	170 132 263 2210	HA32A-SF-2L/W-2PG21	
	PG29	170 132 263 0290	HA32A-SF-2L/W-PG29	
	2PG29	170 132 253 2290	HA32A-SF-2L/W-2PG29	



Side Entry Hoods & High Structure



Top Entry Hoods



Bulkhead Mounted Housing



Surface Mounted Housings


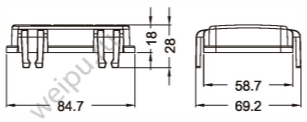


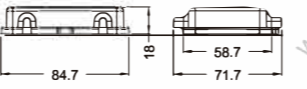




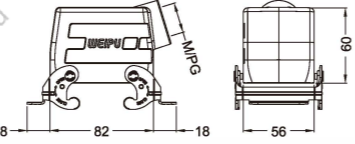

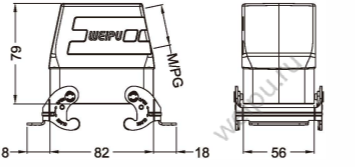

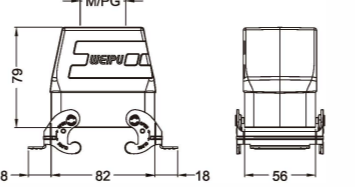
18

32A Metal Hoods/Housings

IP65

Lock selection, see pageP24-02


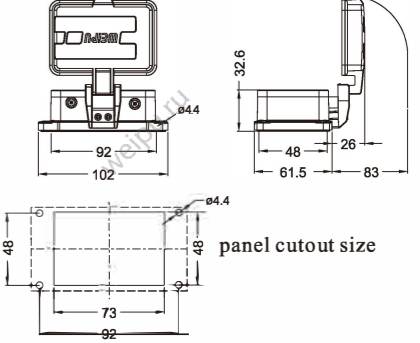

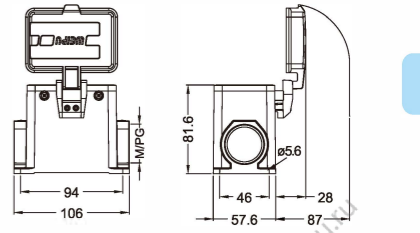
	connection type	Product Code	Part Number	Drawings (mm)
plastic cover 	plastic cove use with 4 lugs hoods ----	170 132 500 7000	HA32A-CV-4C	
plastic cover 	use with double lock lever housings 	170 132 520 4000	HA32A-CV-4B/1	
	use with double lock lever bulkhead /surfacemounted housings 	170 132 520 6000	HA32A-CV-4B/2	

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M25	170 132 313 0250	HA32A-PS-2L/W-M25	
	PG21	170 132 313 0210	HA32A-PS-2L/W-PG21	
Side Entry Hoods & High Structure 	M32	170 132 333 0320	HA32A-PSH-2L/W-M32	
	PG21	170 132 333 0210	HA32A-PSH-2L/W-PG21	
	PG29	170 132 333 0290	HA32A-PSH-2L/W-PG29	
Top Entry Hoods 	M25	170 132 363 0250	HA32A-PTH-2L/W-M25	
	M32	170 132 363 0320	HA32A-PTH-2L/W-M32	
	PG21	170 132 363 0210	HA32A-PTH-2L/W-PG21	
	PG29	170 132 363 0290	HA32A-PTH-2L/W-PG29	

32A Metal Hoods/Housings


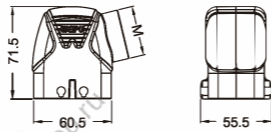

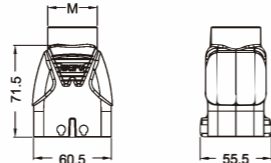

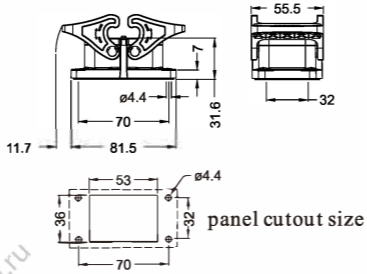

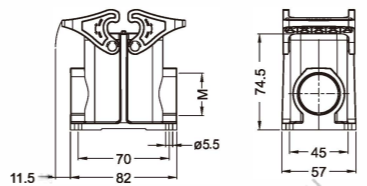

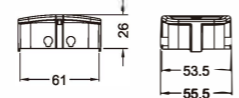

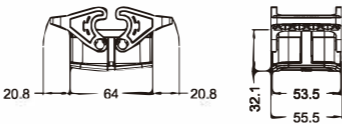
IP65

Lock selection, see pageP24-02

	thread	Product Code	Part Number	Drawings (mm)
Bulkhead Mounted Housing 	----	170 132 370 0000	HA32A-ST-4B	
	with plastic cover			
	----	170 132 380 0000	HA32A-ST-4B-CV	
Surface Mounted Housings 	with metal cover			
	----	170 132 390 0000	HA32A-ST-4B-MCV	
	M25	170 132 430 0250	HA32A-SF-4B-M25	
	M32	170 132 430 0320	HA32A-SF-4B-M32	
	2M32	170 132 430 2320	HA32A-SF-4B-2M32	
	PG21	170 132 430 0210	HA32A-SF-4B-PG21	
	2PG21	170 132 430 2210	HA32A-SF-4B-2PG21	
	PG29	170 132 430 0290	HA32A-SF-4B-PG29	
	2PG29	170 132 430 2290	HA32A-SF-4B-2PG29	
	with plastic cover			
	M25	170 132 440 0250	HA32A-SF-4B-CV-M25	
	M32	170 132 440 0320	HA32A-SF-4B-CV-M32	
	2M32	170 132 440 2320	HA32A-SF-4B-CV-2M32	
PG21	170 132 440 0210	HA32A-SF-4B-CV-PG21		
2PG21	170 132 440 2210	HA32A-SF-4B-CV-2PG21		
PG29	170 132 440 0290	HA32A-SF-4B-CV-PG29		
2PG29	170 132 440 2290	HA32A-SF-4B-CV-2PG29		
with metal cover				
M25	170 132 450 0250	HA32A-SF-4B-MCV-M25		
M32	170 132 450 0320	HA32A-SF-4B-MCV-M32		
2M32	170 132 450 2320	HA32A-SF-4B-MCV-2M32		
PG21	170 132 450 0210	HA32A-SF-4B-MCV-PG21		
2PG21	170 132 450 2210	HA32A-SF-4B-MCV-2PG21		
PG29	170 132 450 0290	HA32A-SF-4B-MCV-PG29		
2PG29	170 132 450 2290	HA32A-SF-4B-MCV-2PG29		

6B Plastic Hoods/Housings


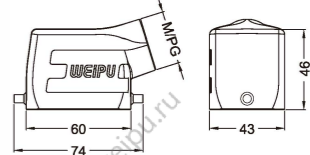

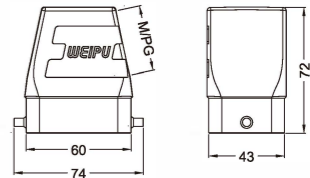

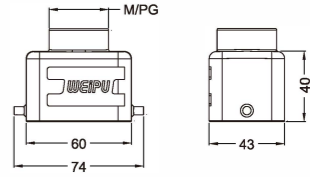

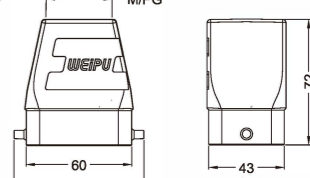

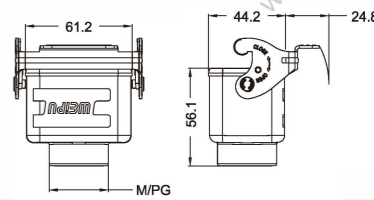

IP65

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods & High Structure 	M25	171 006 200 0250	HB6B-PSH-4B-M25	
	M32	171 006 200 0320	HB6B-PSH-4B-M32	
Top Entry Hoods & High Structure 	M25	171 006 230 0250	HB6B-PTH-4B-M25	
	M32	171 006 230 0320	HB6B-PTH-4B-M32	
Bulkhead Mounted Housing 	----	171 006 258 0000	HB6B-ST-2L/C	 panel cutout size
Surface Mounted Housings & High Structure 	M25	171 006 278 0250	HB6B-SFH-2L/C-M25	
	2M25	171 006 278 2250	HB6B-SFH-2L/C-2M25	
	M32	171 006 278 0320	HB6B-SFH-2L/C-M32	
	2M32	171 006 278 2320	HB6B-SFH-2L/C-2M32	
removable cover 	----	171 006 520 0000	HB6B-CV-4B	
removable cover 	----	171 006 570 0000	HB6B-CV-2L/C	

6B Metal Hoods/Housings

IP65


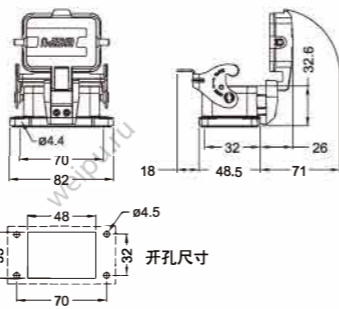

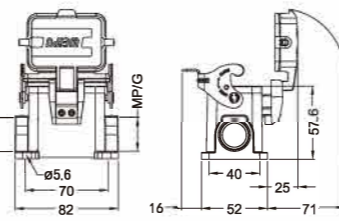

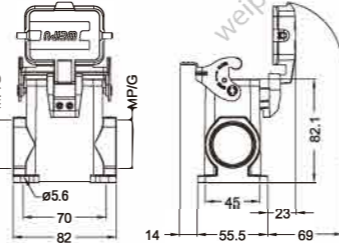
Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M20	170 006 010 0200	HA6B-PS-2B-M20	
	M25	170 006 010 0250	HA6B-PS-2B-M25	
	PG13.5	170 006 010 0130	HA6B-PS-2B-PG13.5	
	PG16	170 006 010 0160	HA6B-PS-2B-PG16	
Side Entry Hoods & High Structure 	----	170 006 720 0000	HA6B-PNH-2B(无出线孔)	
	M25	170 006 030 0250	HA6B-PSH-2B-M25	
	M32	170 006 030 0320	HA6B-PSH-2B-M32	
	PG21	170 006 030 0210	HA6B-PSH-2B-PG21	
Top Entry Hoods 	M20	170 006 040 0200	HA6B-PT-2B-M20	
	M25	170 006 040 0250	HA6B-PT-2B-M25	
	PG13.5	170 006 040 0130	HA6B-PT-2B-PG13.5	
	PG16	170 006 040 0160	HA6B-PT-2B-PG16	
Top Entry Hoods & High Structure 	----	170 006 720 0000	HA6B-PNH-2B(无出线孔)	
	M25	170 006 060 0250	HA6B-PTH-2B-M25	
	M32	170 006 060 0320	HA6B-PTH-2B-M32	
	PG21	170 006 060 0210	HA6B-PTH-2B-PG21	
Cable-to-Cable Housings 	M20	170 006 073 0200	HA6B-MC-1L/W-M20	
	PG13.5	170 006 073 0130	HA6B-MC-1L/W-PG13.5	
	PG16	170 006 073 0160	HA6B-MC-1L/W-PG16	
	Cable-to-Cable Housings & High Structure 	M20	170 006 093 0250	
M25		170 006 093 0320	HA6B-MCH-1L/W-M32	
PG21		170 006 093 0210	HA6B-MCH-1L/W-PG21	
PG29		170 006 093 0290	HA6B-MCH-1L/W-PG29	

6B Metal Hoods/Housings

IP65

Lock selection, see pageP24-02


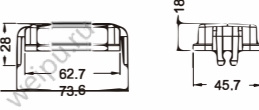


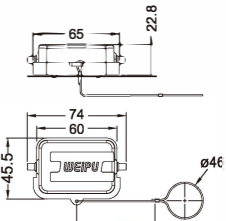



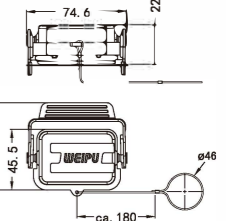
	thread	Product Code	Part Number	Drawings (mm)
	----	170 006 103 0000	HA6B-ST-1L/W	
	----	with plastic cover 170 006 113 0000	HA6B-ST-1L/W-CV	
	----	with metal cover 170 006 123 0000	HA6B-ST-1L/W-MCV	
	M20	170 006 133 0200	HA6B-SF-1L/W-M20	
	2M20	170 006 133 2200	HA6B-SF-1L/W-2M20	
	M25	170 006 133 0250	HA6B-SF-1L/W-M25	
	2M25	170 006 133 2250	HA6B-SF-1L/W-2M25	
	PG16	170 006 133 0160	HA6B-SF-1L/W-PG16	
	2PG16	170 006 133 2160	HA6B-SF-1L/W-2PG16	
		with plastic cover		
	M20	170 006 143 0200	HA6B-SF-1L/W-CV-M20	
	2M20	170 006 143 2200	HA6B-SF-1L/W-CV-2M20	
	M25	170 006 143 0250	HA6B-SF-1L/W-CV-M25	
	2M25	170 006 143 2250	HA6B-SF-1L/W-CV-2M25	
	PG16	170 006 143 0160	HA6B-SF-1L/W-CV-PG16	
	2PG16	170 006 143 2160	HA6B-SF-1L/W-CV-2PG16	
		with metal cover		
	M20	170 006 153 0200	HA6B-SF-1L/W-MCV-M20	
	2M20	170 006 153 2200	HA6B-SF-1L/W-MCV-2M20	
	M25	170 006 153 0250	HA6B-SF-1L/W-MCV-M25	
	2M25	170 006 153 2250	HA6B-SF-1L/W-MCV-2M25	
PG16	170 006 153 0160	HA6B-SF-1L/W-MCV-PG16		
2PG16	170 006 153 2160	HA6B-SF-1L/W-MCV-2PG16		
	M25	170 006 163 0250	HA6B-SFH-1L/W-M25	
	2M25	170 006 163 2250	HA6B-SFH-1L/W-2M25	
	M32	170 006 163 0320	HA6B-SFH-1L/W-M32	
	2M32	170 006 163 2320	HA6B-SFH-1L/W-2M32	
	PG21	170 006 163 0210	HA6B-SFH-1L/W-PG21	
	2PG21	170 006 163 2210	HA6B-SFH-1L/W-2PG21	
	PG29	170 006 163 0290	HA6B-SFH-1L/W-PG29	
	2PG29	170 006 163 2290	HA6B-SFH-1L/W-2PG29	
		with plastic cover		
	M25	170 006 173 0250	HA6B-SFH-1L/W-CV-M25	
	2M25	170 006 173 2250	HA6B-SFH-1L/W-CV-2M25	
	M32	170 006 173 0320	HA6B-SFH-1L/W-CV-M32	
	2M32	170 006 173 2320	HA6B-SFH-1L/W-CV-2M32	
	PG21	170 006 173 0210	HA6B-SFH-1L/W-CV-PG21	
	2PG21	170 006 173 2210	HA6B-SFH-1L/W-CV-2PG21	
	PG29	170 006 173 0290	HA6B-SFH-1L/W-CV-PG29	
	2PG29	170 006 173 2290	HA6B-SFH-1L/W-CV-2PG29	
		with metal cover		
	M25	170 006 183 0250	HA6B-SFH-1L/W-MCV-M25	
	2M25	170 006 183 2250	HA6B-SFH-1L/W-MCV-2M25	
	M32	170 006 183 0320	HA6B-SFH-1L/W-MCV-M32	
2M32	170 006 183 2320	HA6B-SFH-1L/W-MCV-2M32		
PG21	170 006 183 0210	HA6B-SFH-1L/W-MCV-PG21		
2PG21	170 006 183 2210	HA6B-SFH-1L/W-MCV-2PG21		
PG29	170 006 183 0290	HA6B-SFH-1L/W-MCV-PG29		
2PG29	170 006 183 2290	HA6B-SFH-1L/W-MCV-2PG29		

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6B Metal Hoods/Housings

IP65


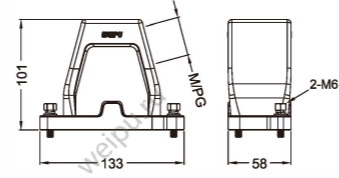

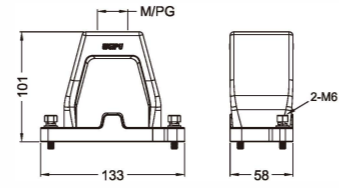

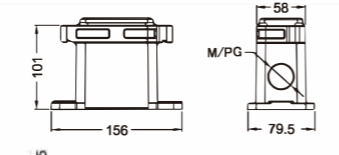
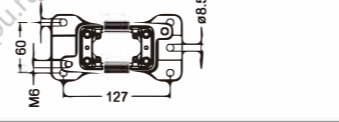

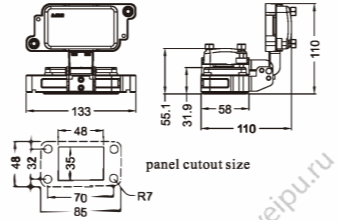

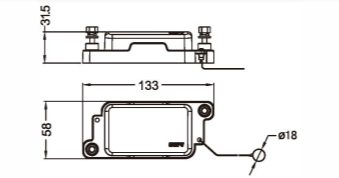





Lock selection, see pageP24-02

	Termination	Description	Product Code	Part Number	Drawings (mm)
	----	plastic cover (use with 2 lugs hoods)	170 006 490 0000	HA6B-CV-2C	
		metal cover (use with single lock lever housings)	170 006 530 3000	HA6B-MCV-2B/1	
		metal cover (use with single lock lever bulkhead/surface mounted housings)	170 006 530 6000	HA6B-MCV-2B/2	
		metal cover (use with 2 lugs hoods)	170 006 553 3000	HA6B-MCV-1L/W. 1S	

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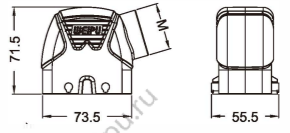

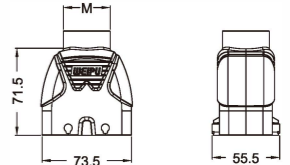

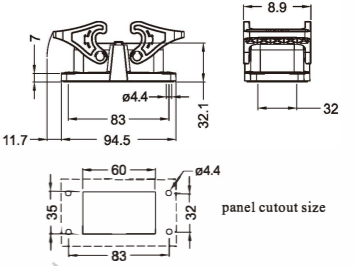

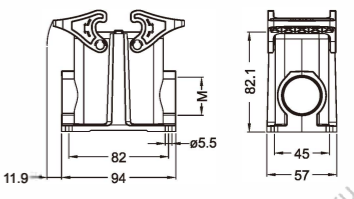

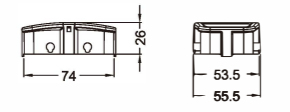

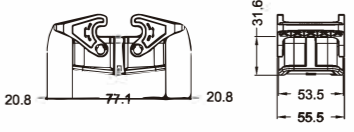
IP68/IP69K Metal Hoods/Housings

IP68/IP69K

	thread	Product Code	Part Number	Drawings (mm)	
Side Entry Hoods & High Structure 	bolt connection				
	M20	172 006 580 0200	HP6B/H-PSH-2S-M20		
	M25	172 006 580 0250	HP6B/H-PSH-2S-M25		
	M32	172 006 580 0320	HP6B/H-PSH-2S-M32		
	PG16	172 006 580 0160	HP6B/H-PSH-2S-PG16		
	PG21	172 006 580 0210	HP6B/H-PSH-2S-PG21		
	PG29	172 006 580 0290	HP6B/H-PSH-2S-PG29		
	roll pin connection				
	M20	172 006 590 0200	HP6B/H-PSH-2T-M20		
	M25	172 006 590 0250	HP6B/H-PSH-2T-M25		
	M32	172 006 590 0320	HP6B/H-PSH-2T-M32		
	PG16	172 006 590 0160	HP6B/H-PSH-2T-PG16		
	PG21	172 006 590 0210	HP6B/H-PSH-2T-PG21		
	PG29	172 006 590 0290	HP6B/H-PSH-2T-PG29		
Top Entry Hoods & High Structure 	bolt connection				
	M20	172 006 600 0200	HP6B/H-PTH-2S-M20		
	M25	172 006 600 0250	HP6B/H-PTH-2S-M25		
	M32	172 006 600 0320	HP6B/H-PTH-2S-M32		
	PG16	172 006 600 0160	HP6B/H-PTH-2S-PG16		
	PG21	172 006 600 0210	HP6B/H-PTH-2S-PG21		
	PG29	172 006 600 0290	HP6B/H-PTH-2S-PG29		
	roll pin connection				
	M20	172 006 610 0200	HP6B/H-PTH-2T-M20		
	M25	172 006 610 0250	HP6B/H-PTH-2T-M25		
	M32	172 006 610 0320	HP6B/H-PTH-2T-M32		
	PG16	172 006 610 0160	HP6B/H-PTH-2T-PG16		
	PG21	172 006 610 0210	HP6B/H-PTH-2T-PG21		
	PG29	172 006 610 0290	HP6B/H-PTH-2T-PG29		
Surface Mounted Housings & High Structure 	bolt connection				
	M20	172 006 620 0200	HP6B/H-SFH-2H-M20		
	M25	172 006 620 0250	HP6B/H-SFH-2H-M25		
	M32	172 006 620 0320	HP6B/H-SFH-2H-M32		
	PG16	172 006 620 0160	HP6B/H-SFH-2H-PG16		
	PG21	172 006 620 0210	HP6B/H-SFH-2H-PG21		
	PG29	172 006 620 0290	HP6B/H-SFH-2H-PG29		
	roll pin connection				
	M20	172 006 630 0200	HP6B/H-SFH-2T-M20		
	M25	172 006 630 0250	HP6B/H-SFH-2T-M25		
	M32	172 006 630 0320	HP6B/H-SFH-2T-M32		
	PG16	172 006 630 0160	HP6B/H-SFH-2T-PG16		
	PG21	172 006 630 0210	HP6B/H-SFH-2T-PG21		
	PG29	172 006 630 0290	HP6B/H-SFH-2T-PG29		
Bulkhead Mounted Housing 	----	bolt connection 172 006 640 0000	HP6B/H-ST-2H		
	----	roll pin connection 172 006 650 0000	HP6B/H-ST-2T		
	with metal cover				
	----	bolt connection 172 006 660 0000	HP6B/H-ST-2H-MCV		
	----	roll pin connection 172 006 670 0000	HP6B/H-ST-2T-MCV		
	panel cutout size				
removable metal cover 	connection type	Product Code	Part Number		
		for housings bolt connection 172 006 680 0000	HP6B/H-MCV-2H		
		for hoods roll pin connection 172 006 690 0000	HP6B/H-MCV-2T		
	removable metal cover 		for housings bolt connection 172 006 700 0000		HP6B/H-MCV-2H/1
		for hoods roll pin connection 172 006 710 0000	HP6B/H-MCV-2T/1		

10B Plastic Hoods/Housings


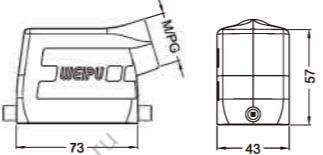

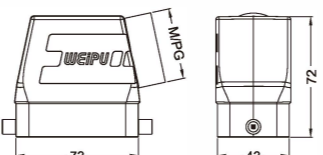

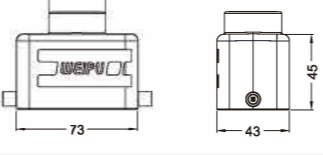

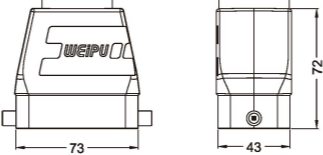

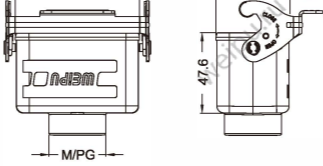

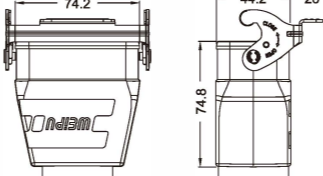
IP65

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods & High Structure 	M25	171 010 200 0250	HB10B-PSH-4B-M25	
	M32	171 010 200 0320	HB10B-PSH-4B-M32	
Top Entry Hoods & High Structure 	M25	171 010 230 0250	HB10B-PTH-4B-M25	
	M32	171 010 230 0320	HB10B-PTH-4B-M32	
Bulkhead Mounted Housing 	----	171 010 258 0000	HB10B-ST-2L/C	
	panel cutout size			
Surface Mounted Housings & High Structure 	M25	171 010 278 0250	HB10B-SFH-2L/C-M25	
	2M25	171 010 278 2250	HB10B-SFH-2L/C-2M25	
	M32	171 010 278 0320	HB10B-SFH-2L/C-M32	
	2M32	171 010 278 2320	HB10B-SFH-2L/C-2M32	
removable cover 	----	171 010 520 0000	HB10B-CV-4B	
removable cover 	----	171 010 570 0000	HB10B-CV-2L/C	

10B Metal Hoods/Housings

IP65

Lock selection, see pageP24-02


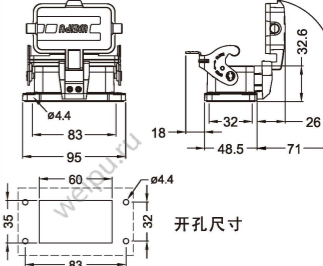

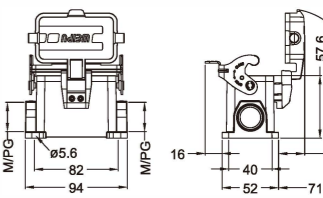

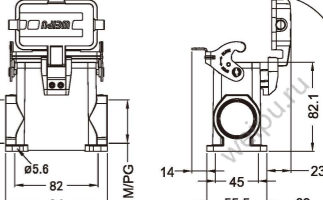
	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M20	170 010 010 0200	HA10B-PS-2B-M20	
	M25	170 010 010 0250	HA10B-PS-2B-M25	
	PG16	170 010 010 0160	HA10B-PS-2B-PG16	
Side Entry Hoods & High Structure 	----	170 010 720 0000	HA10B-PNH-2B(without cutout)	
	M25	170 010 030 0250	HA10B-PSH-2B-M25	
	M32	170 010 030 0320	HA10B-PSH-2B-M32	
	PG21	170 010 030 0210	HA10B-PSH-2B-PG21	
	PG29	170 010 030 0290	HA10B-PSH-2B-PG29	
	with extended thread			
	M25	170 010 020 0250	HA10B-PSHV-2B-M25	
	M32	170 010 020 0320	HA10B-PSHV-2B-M32	
	PG21	170 010 020 0210	HA10B-PSHV-2B-PG21	
PG29	170 010 020 0290	HA10B-PSHV-2B-PG29		
Top Entry Hoods 	M20	170 010 040 0200	HA10B-PT-2B-M20	
	M25	170 010 040 0250	HA10B-PT-2B-M25	
	PG16	170 010 040 0160	HA10B-PT-2B-PG16	
Top Entry Hoods & High Structure 	----	170 010 720 0000	HA10B-PNH-2B(without cutout)	
	M25	170 010 060 0250	HA10B-PTH-2B-M25	
	M32	170 010 060 0320	HA10B-PTH-2B-M32	
	PG21	170 010 060 0210	HA10B-PTH-2B-PG21	
	PG29	170 010 060 0290	HA10B-PTH-2B-PG29	
	with extended thread			
	M25	170 010 050 0250	HA10B-PTHV-2B-M25	
	M32	170 010 050 0320	HA10B-PTHV-2B-M32	
	PG21	170 010 050 0210	HA10B-PTHV-2B-PG21	
PG29	170 010 050 0290	HA10B-PTHV-2B-PG29		
Cable-to-Cable Housings 	M20	170 010 073 0200	HA10B-MC-1L/W-M20	
	M25	170 010 073 0250	HA10B-MC-1L/W-M25	
	PG16	170 010 073 0160	HA10B-MC-1L/W-PG16	
Cable-to-Cable Housings & High Structure 	M25	170 010 093 0250	HA10B-MCH-1L/W-M25	
	M32	170 010 093 0320	HA10B-MCH-1L/W-M32	
	PG21	170 010 093 0210	HA10B-MCH-1L/W-PG21	
	PG29	170 010 093 0290	HA10B-MCH-1L/W-PG29	
	with extended thread			
	M25	170 010 083 0250	HA10B-MCHV-1L/W-M25	
	M32	170 010 083 0320	HA10B-MCHV-1L/W-M32	
	PG21	170 010 083 0210	HA10B-MCHV-1L/W-PG21	
PG29	170 010 083 0290	HA10B-MCHV-1L/W-PG29		

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10B Metal Hoods/Housings

IP65

Lock selection, see pageP24-02

	thread	Product Code	Part Number	Drawings (mm)		
Bulkhead Mounted Housing 	----	170 010 103 0000	HA10B-ST-1L/W			
	----	170 010 113 0000	HA10B-ST-1L/W-CV			
	----	170 010 123 0000	HA10B-ST-1L/W-MCV			
Surface Mounted Housings 	M20	170 010 133 0200	HA10B-SF-1L/W-M20			
	2M20	170 010 133 2200	HA10B-SF-1L/W-2M20			
	M25	170 010 133 0250	HA10B-SF-1L/W-M25			
	2M25	170 010 133 2250	HA10B-SF-1L/W-2M25			
	PG16	170 010 133 0160	HA10B-SF-1L/W-PG16			
	2PG26	170 010 133 2160	HA10B-SF-1L/W-2PG16			
	with plastic cover					
	M20	170 010 143 0200	HA10B-SF-1L/W-CV-M20			
	2M20	170 010 143 2200	HA10B-SF-1L/W-CV-2M20			
	M25	170 010 143 0250	HA10B-SF-1L/W-CV-M25			
	2M25	170 010 143 2250	HA10B-SF-1L/W-CV-2M25			
	PG16	170 010 143 0160	HA10B-SF-1L/W-CV-PG16			
	2PG26	170 010 143 2160	HA10B-SF-1L/W-CV-2PG16			
	with metal cover					
	M20	170 010 153 0200	HA10B-SF-1L/W-MCV-M20			
	2M20	170 010 153 2200	HA10B-SF-1L/W-MCV-2M20			
	M25	170 010 153 0250	HA10B-SF-1L/W-MCV-M25			
	2M25	170 010 153 2250	HA10B-SF-1L/W-MCV-2M25			
	PG16	170 010 153 0160	HA10B-SF-1L/W-MCV-PG16			
	2PG26	170 010 153 2160	HA10B-SF-1L/W-MCV-2PG16			
	Surface Mounted Housings & High Structure 	M25	170 010 163 0250		HA10B-SFH-1L/W-M25	
		2M25	170 010 163 2250		HA10B-SFH-1L/W-2M25	
		M32	170 010 163 0320		HA10B-SFH-1L/W-M32	
		2M32	170 010 163 2320		HA10B-SFH-1L/W-2M32	
PG21		170 010 163 0210	HA10B-SFH-1L/W-PG21			
2PG21		170 010 163 2210	HA10B-SFH-1L/W-2PG21			
PG29		170 010 163 0290	HA10B-SFH-1L/W-PG29			
2PG29		170 010 163 2290	HA10B-SFH-1L/W-2PG29			
with plastic cover						
M25		170 010 173 0250	HA10B-SFH-1L/W-CV-M25			
2M25		170 010 173 2250	HA10B-SFH-1L/W-CV-2M25			
M32		170 010 173 0320	HA10B-SFH-1L/W-CV-M32			
2M32		170 010 173 2320	HA10B-SFH-1L/W-CV-2M32			
PG21		170 010 173 0210	HA10B-SFH-1L/W-CV-PG21			
2PG21		170 010 173 2210	HA10B-SFH-1L/W-CV-2PG21			
PG29		170 010 173 0290	HA10B-SFH-1L/W-CV-PG29			
2PG29		170 010 173 2290	HA10B-SFH-1L/W-CV-2PG29			
with metal cover						
M25	170 010 183 0250	HA10B-SFH-1L/W-MCV-M25				
2M25	170 010 183 2250	HA10B-SFH-1L/W-MCV-2M25				
M32	170 010 183 0320	HA10B-SFH-1L/W-MCV-M32				
2M32	170 010 183 2320	HA10B-SFH-1L/W-MCV-2M32				
PG21	170 010 183 0210	HA10B-SFH-1L/W-MCV-PG21				
2PG21	170 010 183 2210	HA10B-SFH-1L/W-MCV-2PG21				
PG29	170 010 183 0290	HA10B-SFH-1L/W-MCV-PG29				
2PG29	170 010 183 2290	HA10B-SFH-1L/W-MCV-2PG29				

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10B Metal Hoods/Housings

IP65

Lock selection, see pageP24-02

	thread	Product Code	Part Number	Drawings (mm)	
Side Entry Hoods	M20	170 010 190 0200	HA10B-PS-4B-M20		
	M25	170 010 190 0250	HA10B-PS-4B-M25		
	PG16	170 010 190 0160	HA10B-PS-4B-PG16		
Side Entry Hoods & High Structure	----	170 010 730 0000	HA10B-PNH-4B (without cutout)		
	M25	170 010 210 0250	HA10B-PSH-4B-M25		
	M32	170 010 210 0320	HA10B-PSH-4B-M32		
	PG21	170 010 210 0210	HA10B-PSH-4B-PG21		
	PG29	170 010 210 0290	HA10B-PSH-4B-PG29		
	with extended thread				
	M25	170 010 200 0250	HA10B-PSHV-4B-M25		
	M32	170 010 200 0320	HA10B-PSHV-4B-M32		
	PG21	170 010 200 0210	HA10B-PSHV-4B-PG21		
	PG29	170 010 200 0290	HA10B-PSHV-4B-PG29		
Top Entry Hoods	M20	170 010 220 0200	HA10B-PT-4B-M20		
	M25	170 010 220 0250	HA10B-PT-4B-M25		
	PG16	170 010 220 0160	HA10B-PT-4B-PG16		
Top Entry Hoods & High Structure	----	170 010 730 0000	HA10B-PNH-4B (without cutout)		
	M25	170 010 240 0250	HA10B-PTH-4B-M25		
	M32	170 010 240 0320	HA10B-PTH-4B-M32		
	PG21	170 010 240 0210	HA10B-PTH-4B-PG21		
	PG29	170 010 240 0290	HA10B-PTH-4B-PG29		
	with extended thread				
	M25	170 010 230 0250	HA10B-PTHV-4B-M25		
	M32	170 010 230 0320	HA10B-PTHV-4B-M32		
	PG21	170 010 230 0210	HA10B-PTHV-4B-PG21		
	PG29	170 010 230 0290	HA10B-PTHV-4B-PG29		
Bulkhead Mounted Housing	M20	170 010 253 0000	HA10B-ST-2L/W		
Surface Mounted Housings	M20	170 010 263 0200	HA10B-SF-2L/W-M20		
	2M20	170 010 263 2200	HA10B-SF-2L/W-2M20		
	M25	170 010 263 0250	HA10B-SF-2L/W-M25		
	2M25	170 010 263 2250	HA10B-SF-2L/W-2M25		
	2PG16	170 010 263 2160	HA10B-SF-2L/W-2PG16		

10B Metal Hoods/Housings

IP65

Lock selection, see pageP24-02

	thread	Product Code	Part Number	Drawings (mm)	
Surface Mounted Housings & High Structure	M25	170 010 273 0250	HA10B-SFH-2L/W-M25		
	2M25	170 010 273 2250	HA10B-SFH-2L/W-2M25		
	M32	170 010 273 0320	HA10B-SFH-2L/W-M32		
	2M32	170 010 273 2320	HA10B-SFH-2L/W-2M32		
	PG21	170 010 273 0210	HA10B-SFH-2L/W-PG21		
	2PG21	170 010 273 2210	HA10B-SFH-2L/W-2PG21		
	PG29	170 010 273 0290	HA10B-SFH-2L/W-PG29		
2PG29	170 010 273 2290	HA10B-SFH-2L/W-2PG29			
Cable-to-Cable Housings	M20	170 010 283 0200	HA10B-MC-2L/W-M20		
	M25	170 010 283 0250	HA10B-MC-2L/W-M25		
	PG16	170 010 283 0160	HA10B-MC-2L/W-PG16		
Cable-to-Cable Housings & High Structure	M25	170 010 303 0250	HA10B-MCH-2L/W-M25		
	M32	170 010 303 0320	HA10B-MCH-2L/W-M32		
	PG21	170 010 303 0210	HA10B-MCH-2L/W-PG21		
	PG29	170 010 303 0290	HA10B-MCH-2L/W-PG29		
	with extended thread				
	M25	170 010 293 0250	HA10B-MCHV-2L/W-M25		
	M32	170 010 293 0320	HA10B-MCHV-2L/W-M32		
	PG21	170 010 293 0210	HA10B-MCHV-2L/W-PG21		
	PG29	170 010 293 0290	HA10B-MCHV-2L/W-PG29		
	plastic cover	----	use with 4 lugs hoods 170 010 500 0000		HA10B-CV-4C
removable plastic cover		use with double lock lever housings 170 010 520 5000	HA10B-CV-4B/1		

10B Metal Hoods/Housings

IP65

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)	
Side Entry Hoods	M20	170 010 313 0200	HA10B-PS-2L/W-M20		
	PG16	170 010 313 0160	HA10B-PS-2L/W-PG16		
Side Entry Hoods & High Structure	M25	170 010 333 0250	HA10B-PSH-2L/W-M25		
	M32	170 010 333 0320	HA10B-PSH-2L/W-M32		
	PG21	170 010 333 0210	HA10B-PSH-2L/W-PG21		
	PG29	170 010 333 0290	HA10B-PSH-2L/W-PG29		
	with extended thread				
	M25	170 010 323 0250	HA10B-PSHV-2L/W-M25		
	M32	170 010 323 0320	HA10B-PSHV-2L/W-M32		
Top Entry Hoods	M20	170 010 343 0200	HA10B-PT-2L/W-M20		
	PG16	170 010 343 0160	HA10B-PT-2L/W-PG16		
	Top Entry Hoods & High Structure	M25	170 010 363 0250		HA10B-PTH-2L/W-M25
		M32	170 010 363 0320		HA10B-PTH-2L/W-M32
Top Entry Hoods & High Structure	PG21	170 010 363 0210	HA10B-PTH-2L/W-PG21		
	PG29	170 010 363 0290	HA10B-PTH-2L/W-PG29		
	with extended thread				
	M25	170 010 353 0250	HA10B-PTHV-2L/W-M25		
	M32	170 010 353 0320	HA10B-PTHV-2L/W-M32		
	PG21	170 010 353 0210	HA10B-PTHV-2L/W-PG21		
	PG29	170 010 353 0290	HA10B-PTHV-2L/W-PG29		
Bulkhead Mounted Housing	----	170 010 370 0000	HA10B-ST-4B		
	----	with plastic cover 170 010 380 0000	HA10B-ST-4B-CV		
	----	with metal cover 170 010 390 0000	HA10B-ST-4B-MCV		

10B Metal Hoods/Housings


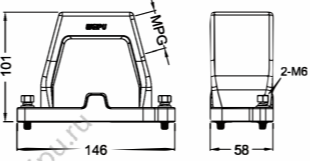

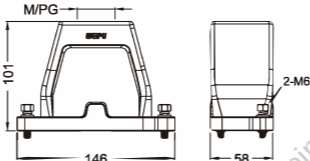

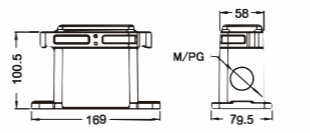

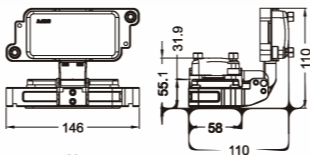
IP65



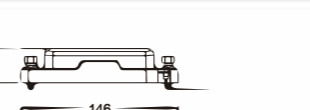





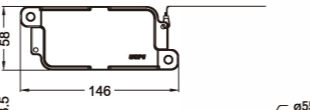


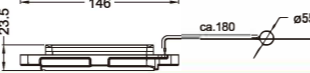
Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)	
Surface Mounted Housings	M20	170 010 400 0200	HA10B-SF-4B-M20		
	2M20	170 010 400 2200	HA10B-SF-4B-2M20		
	M25	170 010 400 0250	HA10B-SF-4B-M25		
	2M25	170 010 400 2250	HA10B-SF-4B-2M25		
	PG16	170 010 400 0160	HA10B-SF-4B-PG16		
	2PG16	170 010 400 2160	HA10B-SF-4B-2PG16		
	with plastic cover				
	M20	170 010 410 0200	HA10B-SF-4B-CV-M20		
	2M20	170 010 410 2200	HA10B-SF-4B-CV-2M20		
	M25	170 010 410 0250	HA10B-SF-4B-CV-M25		
	2M25	170 010 410 2250	HA10B-SF-4B-CV-2M25		
	PG16	170 010 410 0160	HA10B-SF-4B-CV-PG16		
	2PG16	170 010 410 2160	HA10B-SF-4B-CV-2PG16		
	with metal cover				
Surface Mounted Housings & High Structure	M20	170 010 420 0200	HA10B-SF-4B-MCV-M20		
	2M20	170 010 420 2200	HA10B-SF-4B-MCV-2M20		
	M25	170 010 420 0250	HA10B-SF-4B-MCV-M25		
	2M25	170 010 420 2250	HA10B-SF-4B-MCV-2M25		
	PG16	170 010 420 0160	HA10B-SF-4B-MCV-PG16		
	2PG16	170 010 420 2160	HA10B-SF-4B-MCV-2PG16		
	with plastic cover				
	M25	170 010 430 0250	HA10B-SFH-4B-M25		
	2M25	170 010 430 2250	HA10B-SFH-4B-2M25		
	M32	170 010 430 0320	HA10B-SFH-4B-M32		
	2M32	170 010 430 2320	HA10B-SFH-4B-2M32		
	PG21	170 010 430 0210	HA10B-SFH-4B-PG21		
	2PG21	170 010 430 2210	HA10B-SFH-4B-2PG21		
	PG29	170 010 430 0290	HA10B-SFH-4B-PG29		
	2PG29	170 010 430 2290	HA10B-SFH-4B-2PG29		
	with metal cover				
	M25	170 010 440 0250	HA10B-SFH-4B-MCV-M25		
	2M25	170 010 440 2250	HA10B-SFH-4B-MCV-2M25		
	M32	170 010 440 0320	HA10B-SFH-4B-MCV-M32		
	2M32	170 010 440 2320	HA10B-SFH-4B-MCV-2M32		
	PG21	170 010 440 0210	HA10B-SFH-4B-MCV-PG21		
	2PG21	170 010 440 2210	HA10B-SFH-4B-MCV-2PG21		
PG29	170 010 440 0290	HA10B-SFH-4B-MCV-PG29			
2PG29	170 010 440 2290	HA10B-SFH-4B-MCV-2PG29			
with plastic cover					
M25	170 010 450 0250	HA10B-SFH-4B-MCV-M25			
2M25	170 010 450 2250	HA10B-SFH-4B-MCV-2M25			
M32	170 010 450 0320	HA10B-SFH-4B-MCV-M32			
2M32	170 010 450 2320	HA10B-SFH-4B-MCV-2M32			
PG21	170 010 450 0210	HA10B-SFH-4B-MCV-PG21			
2PG21	170 010 450 2210	HA10B-SFH-4B-MCV-2PG21			
PG29	170 010 450 0290	HA10B-SFH-4B-MCV-PG29			
2PG29	170 010 450 2290	HA10B-SFH-4B-MCV-2PG29			
removable metal cover	----	use with double lock lever hoods 170 010 540 3000	HA10B-MCV-4B/1S		
	----	use with double lock lever bulkhead/surface mounted housings 170 010 540 6000	HA10B-MCV-4B/2		
	----	use with 4 lugs hoods 170 010 563 3000	HA10B-MCV-2L/W. 1S		
	----	use with 4 lugs bulkhead/surface mounted housings 170 010 563 6000	HA10B-MCV-2L/W. 2		

10B IP68/IP69K Hoods/Housings


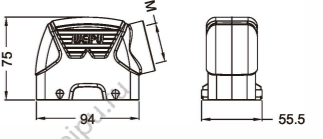

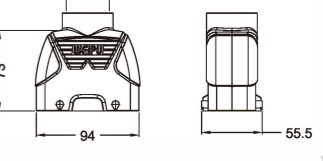

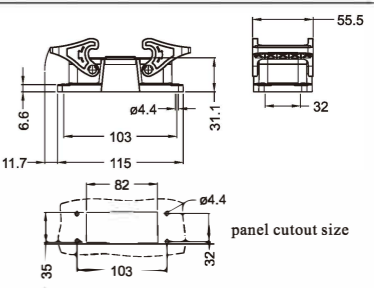

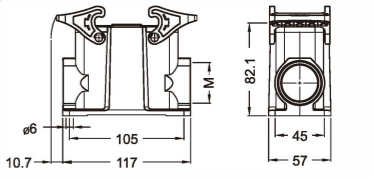

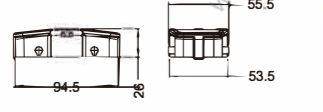

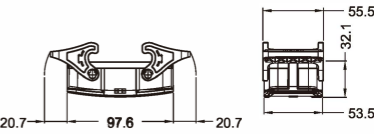
IP68/IP69K

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods & High Structure 	bolt connection			
	M20	172 010 580 0200	HP10B/H-PSH-2S-M20	
	M25	172 010 580 0250	HP10B/H-PSH-2S-M25	
	M32	172 010 580 0320	HP10B/H-PSH-2S-M32	
	PG16	172 010 580 0160	HP10B/H-PSH-2S-PG16	
	PG21	172 010 580 0210	HP10B/H-PSH-2S-PG21	
	roll pin connection			
	M20	172 010 590 0200	HP10B/H-PSH-2T-M20	
	M25	172 010 590 0250	HP10B/H-PSH-2T-M25	
	M32	172 010 590 0320	HP10B/H-PSH-2T-M32	
PG16	172 010 590 0160	HP10B/H-PSH-2T-PG16		
PG21	172 010 590 0210	HP10B/H-PSH-2T-PG21		
Top Entry Hoods & High Structure 	bolt connection			
	M20	172 010 600 0200	HP10B/H-PTH-2S-M20	
	M25	172 010 600 0250	HP10B/H-PTH-2S-M25	
	M32	172 010 600 0320	HP10B/H-PTH-2S-M32	
	PG16	172 010 600 0160	HP10B/H-PTH-2S-PG16	
	PG21	172 010 600 0210	HP10B/H-PTH-2S-PG21	
	PG29	172 010 600 0290	HP10B/H-PTH-2S-PG29	
	roll pin connection			
	M20	172 010 610 0200	HP10B/H-PTH-2T-M20	
	M25	172 010 610 0250	HP10B/H-PTH-2T-M25	
M32	172 010 610 0320	HP10B/H-PTH-2T-M32		
PG16	172 010 610 0160	HP10B/H-PTH-2T-PG16		
PG21	172 010 610 0210	HP10B/H-PTH-2T-PG21		
PG29	172 010 610 0290	HP10B/H-PTH-2T-PG29		
Surface Mounted Housings & High Structure 	bolt connection			
	M20	172 010 620 0200	HP10B/H-SFH-2H-M20	
	M25	172 010 620 0250	HP10B/H-SFH-2H-M25	
	M32	172 010 620 0320	HP10B/H-SFH-2H-M32	
	PG16	172 010 620 0160	HP10B/H-SFH-2H-PG16	
	PG21	172 010 620 0210	HP10B/H-SFH-2H-PG21	
	roll pin connection			
	M20	172 010 630 0200	HP10B/H-SFH-2T-M20	
	M25	172 010 630 0250	HP10B/H-SFH-2T-M25	
	M32	172 010 630 0320	HP10B/H-SFH-2T-M32	
PG16	172 010 630 0160	HP10B/H-SFH-2T-PG16		
PG21	172 010 630 0210	HP10B/H-SFH-2T-PG21		
Bulkhead Mounted Housing 	bolt connection			
	----	172 010 640 0000	HP10B/H-ST-2H	
	roll pin connection			
	----	172 010 650 0000	HP10B/H-ST-2T	
	with metal cover			
	bolt connection			
----	172 010 660 0000	HP10B/H-ST-2H-MCV		
roll pin connection				
----	172 010 670 0000	HP10B/H-ST-2T-MCV		

	connection type	Product Code	Part Number	Drawings (mm)
removable metal cover 		for housings	HP10B/H-ZMCV-2H	
		bolt connection		
removable metal cover 		for hoods	HP10B/H-ZMCV-2T	
		roll pin connection		
removable metal cover 		for housings	HP10B/H-TMCV-2H	
		bolt connection		
removable metal cover 		for hoods	HP10B/H-TMCV-2T	
		roll pin connection		

16B Plastic Hoods/Housings


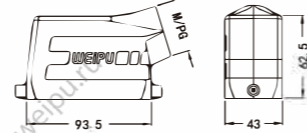



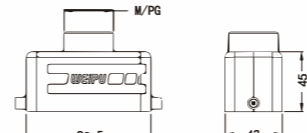



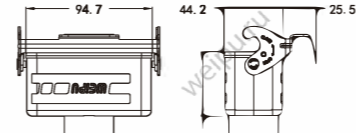

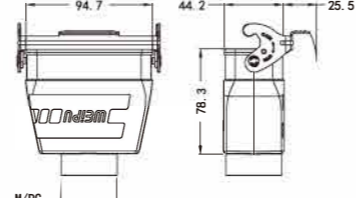
IP65

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods & High Structure 	M32	171 016 200 0320	HB16B-PSH-4B-M32	
	M40	171 016 200 0400	HB16B-PSH-4B-M40	
Top Entry Hoods & High Structure 	M32	171 016 210 0320	HB16B-PTH-4B-M32	
	M40	171 016 210 0400	HB16B-PTH-4B-M40	
Bulkhead Mounted Housing 	----	171 016 258 0000	HB16B-ST-2L/C	
Surface Mounted Housings & High Structure 	M32	171 016 278 0320	HB16B-SFH-2L/C-M32	
	2M32	171 016 278 2320	HB16B-SFH-2L/C-2M32	
	M40	171 016 278 0400	HB16B-SFH-2L/C-M40	
	2M40	171 016 278 2400	HB16B-SFH-2L/C-2M40	
removable cover 	----	171 016 520 0000	HB16B-CV-4B/2	
removable cover 	----	171 016 578 0000	HB16B-CV-2L/C	

16B Metal Hoods/Housings

IP65


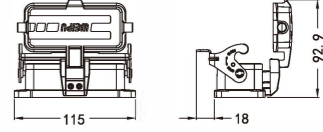

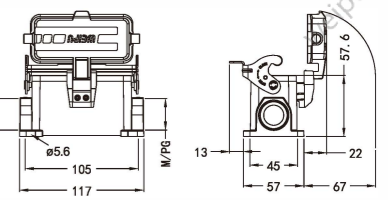

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M25	170 016 010 0250	HA16B-PS-2B-M25	
	M32	170 016 010 0320	HA16B-PS-2B-M32	
	PG21	170 016 010 0210	HA16B-PS-2B-PG21	
Side Entry Hoods & High Structure 	---	170 016 720 0000	HA16B-PNH-2B (without wire outlet)	
	M40	170 016 030 0400	HA16B-PSH-2B-M40	
	with extended thread			
	M32	170 016 020 0320	HA16B-PSHV-2B-M32	
	PG21	170 016 020 0210	HA16B-PSHV-2B-PG21	
	PG29	170 016 020 0290	HA16B-PSHV-2B-PG29	
Top Entry Hoods 	M25	170 016 040 0250	HA16B-PT-2B-M25	
	M32	170 016 040 0320	HA16B-PT-2B-M32	
	PG21	170 016 040 0210	HA16B-PT-2B-PG21	
Top Entry Hoods & High Structure 	---	170 016 720 0000	HA16B-PNH-2B (without wire outlet)	
	M40	170 016 060 0400	HA16B-PTH-2B-M40	
	with extended thread			
	M32	170 016 050 0320	HA16B-PTHV-2B-M32	
	PG21	170 016 050 0210	HA16B-PTHV-2B-PG21	
Cable-to-Cable Housings 	M25	170 016 073 0250	HA16B-MC-1L/W-M25	
	M32	170 016 073 0320	HA16B-MC-1L/W-M32	
	PG21	170 016 073 0210	HA16B-MC-1L/W-PG21	
Cable-to-Cable Housings & High Structure 	M40	170 016 093 0400	HA16B-MCH-1L/W-M40	
	with extended thread			
	M32	170 016 083 0320	HA16B-MCHV-1L/W-M32	
	PG21	170 016 083 0210	HA16B-MCHV-1L/W-PG21	
PG29	170 016 083 0290	HA16B-MCHV-1L/W-PG29		

16B Metal Hoods/Housings

IP65


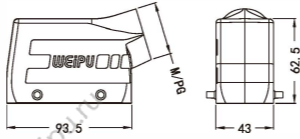

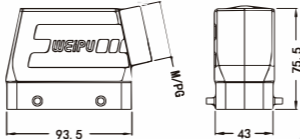

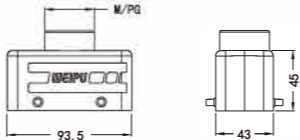

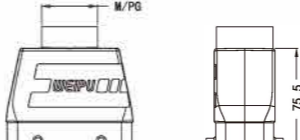

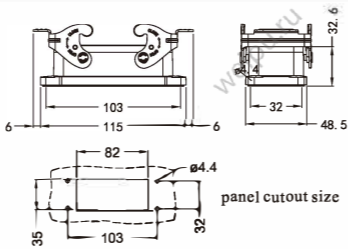

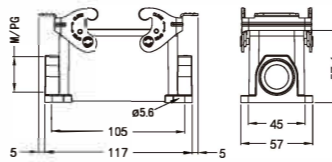
Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Bulkhead Mounted Housing 	---	170 016 103 0000	HA16B-ST-1L/W	
	---	170 016 113 0000	HA16B-ST-1L/W-CV	
	---	170 016 123 0000	HA16B-ST-1L/W-MCV	
Surface Mounted Housings 	M25	170 016 133 0250	HA16B-SF-1L/W-M25	
	2M25	170 016 133 2250	HA16B-SF-1L/W-2M25	
	PG21	170 016 133 0210	HA16B-SF-1L/W-PG21	
	2PG21	170 016 133 2210	HA16B-SF-1L/W-2PG21	
	with plastic cover			
	M25	170 016 143 0250	HA16B-SF-1L/W-CV-M25	
	2M25	170 016 143 2250	HA16B-SF-1L/W-CV-2M25	
	PG21	170 016 143 0210	HA16B-SF-1L/W-CV-PG21	
	2PG21	170 016 143 2210	HA16B-SF-1L/W-CV-2PG21	
	with metal cover			
	M25	170 016 153 0250	HA16B-SF-1L/W-MCV-M25	
	2M25	170 016 153 2250	HA16B-SF-1L/W-MCV-2M25	
	PG21	170 016 153 0210	HA16B-SF-1L/W-MCV-PG21	
	2PG21	170 016 153 2210	HA16B-SF-1L/W-MCV-2PG21	
	Surface Mounted Housings & High Structure 	M32	170 016 163 0320	
2M32		170 016 163 2320	HA16B-SFH-1L/W-2M32	
PG21		170 016 163 0210	HA16B-SFH-1L/W-PG21	
2PG21		170 016 163 2210	HA16B-SFH-1L/W-2PG21	
PG29		170 016 163 0290	HA16B-SFH-1L/W-PG29	
2PG29		170 016 163 2290	HA16B-SFH-1L/W-2PG29	
with plastic cover				
M32		170 016 173 0320	HA16B-SFH-1L/W-CV-M32	
2M32		170 016 173 2320	HA16B-SFH-1L/W-CV-2M32	
PG21		170 016 173 0210	HA16B-SFH-1L/W-CV-PG21	
2PG21		170 016 173 2210	HA16B-SFH-1L/W-CV-2PG21	
PG29		170 016 173 0290	HA16B-SFH-1L/W-CV-PG29	
2PG29	170 016 173 2290	HA16B-SFH-1L/W-CV-2PG29		
with metal cover				
M32	170 016 183 0320	HA16B-SFH-1L/W-MCV-M32		
2M32	170 016 183 2320	HA16B-SFH-1L/W-MCV-2M32		
PG21	170 016 183 0210	HA16B-SFH-1L/W-MCV-PG21		
2PG21	170 016 183 2210	HA16B-SFH-1L/W-MCV-2PG21		
PG29	170 016 183 0290	HA16B-SFH-1L/W-MCV-PG29		
2PG29	170 016 183 2290	HA16B-SFH-1L/W-MCV-2PG29		

16B Metal Hoods/Housings

IP65


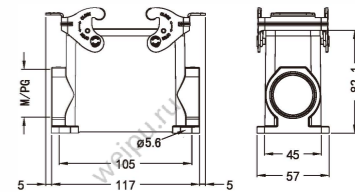

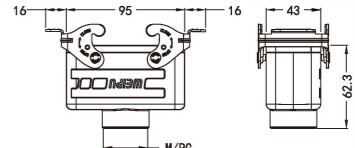

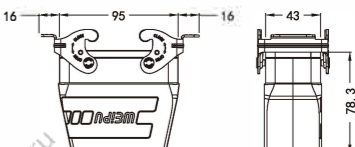

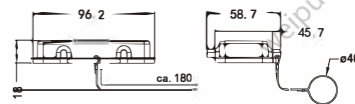


Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M25	170 016 190 0250	HA16B-PS-4B-M25	
	M32	170 016 190 0320	HA16B-PS-4B-M32	
	PG21	170 016 190 0210	HA16B-PS-4B-PG21	
Side Entry Hoods & High Structure 	----	170 016 720 0000	HA16B-PNH-4B (without wire outlet)	
	M40	170 016 210 0400	HA16B-PSH-4B-M40	
	with extended thread			
	M32	170 016 200 0320	HA16B-PSHV-4B-M32	
	PG21	170 016 200 0210	HA16B-PSHV-4B-PG21	
Top Entry Hoods 	M25	170 016 220 0250	HA16B-PT-4B-M25	
	M32	170 016 220 0320	HA16B-PT-4B-M32	
	PG21	170 016 220 0210	HA16B-PT-4B-PG21	
	PG29	170 016 200 0290	HA16B-PSHV-4B-PG29	
Top Entry Hoods & High Structure 	----	170 016 720 0000	HA16B-PNH-4B (without wire outlet)	
	M40	170 016 240 0400	HA16B-PTH-4B-M40	
	with extended thread			
	M32	170 016 230 0320	HA16B-PTHV-4B-M32	
	PG21	170 016 230 0210	HA16B-PTHV-4B-PG21	
Bulkhead Mounted Housing 	----	170 016 253 0000	HA16B-ST-2L/W	
	panel cutout size			
Surface Mounted Housings 	M25	170 016 263 0250	HA16B-SF-2L/W-M25	
	2M25	170 016 263 2250	HA16B-SF-2L/W-2M25	
	PG21	170 016 263 0210	HA16B-SF-2L/W-PG21	
	2PG21	170 016 263 2210	HA16B-SF-2L/W-2PG21	

16B Metal Hoods/Housings

IP65


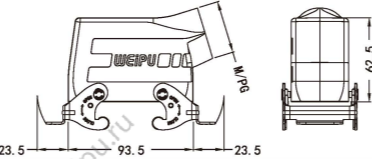

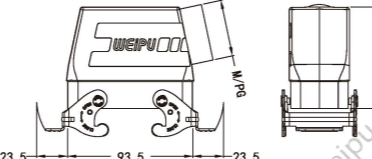

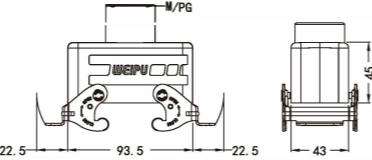

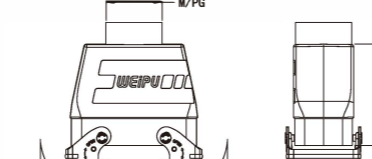

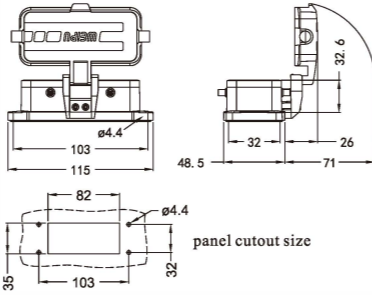
Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)	
Surface Mounted Housings & High Structure 	M25	170 016 273 0250	HA16B-SFH-2L/W-M25		
	M32	170 016 273 0320	HA16B-SFH-2L/W-M32		
	2M32	170 016 273 2320	HA16B-SFH-2L/W-2M32		
	M40	170 016 273 0400	HA16B-SFH-2L/W-M40		
	2M40	170 016 273 2400	HA16B-SFH-2L/W-2M40		
	PG21	170 016 273 0210	HA16B-SFH-2L/W-PG21		
	2PG21	170 016 273 2210	HA16B-SFH-2L/W-2PG21		
	PG29	170 016 273 0290	HA16B-SFH-2L/W-PG29		
Cable-to-Cable Housings 	M25	170 016 283 0250	HA16B-MC-2L/W-M25		
	M32	170 016 283 0320	HA16B-MC-2L/W-M32		
	PG21	170 016 283 0210	HA16B-MC-2L/W-PG21		
Cable-to-Cable Housings & High Structure 	M40	170 016 303 0400	HA16B-MCH-2L/W-M40		
	with extended thread				
	M25	170 016 293 0250	HA16B-MCHV-2L/W-M25		
	M32	170 016 293 0320	HA16B-MCHV-2L/W-M32		
	PG21	170 016 293 0210	HA16B-MCHV-2L/W-PG21		
	PG29	170 016 293 0290	HA16B-MCHV-2L/W-PG29		
plastic cover 	----	use with 4 lugs hoods 170 016 500 0000	HA16B-CV-4C		
	removable plastic cover 		use with double lock lever housings 170 016 500 5000		HA16B-CV-4B/1
			use with double lock lever bulkhead/surface mounted housings 170 016 500 6000		HA16B-CV-4B/2

16B Metal Hoods/Housings

IP65


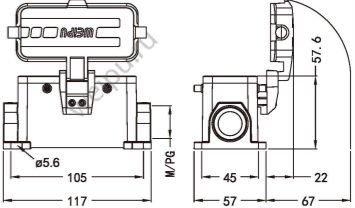

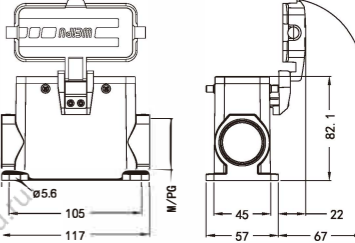

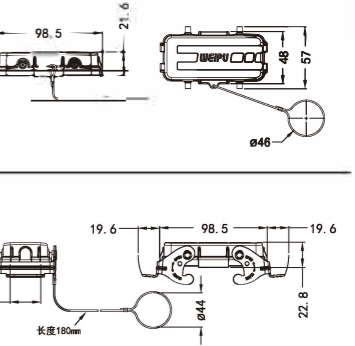

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M25	170 016 313 0250	HA16B-PS-2L/W-M25	
	M32	170 016 313 0320	HA16B-PS-2L/W-M32	
	PG21	170 016 313 0210	HA16B-PS-2L/W-PG21	
Side Entry Hoods & High Structure 	M40	170 016 333 0400	HA16B-PSH-2L/W-M40	
	with extended thread			
	M32	170 016 323 0320	HA16B-PSHV-2L/W-M32	
	PG21	170 016 323 0210	HA16B-PSHV-2L/W-PG21	
Top Entry Hoods 	M25	170 016 343 0250	HA16B-PT-2L/W-M25	
	M32	170 016 343 0320	HA16B-PT-2L/W-M32	
	PG21	170 016 343 0210	HA16B-PT-2L/W-PG21	
Top Entry Hoods & High Structure 	M40	170 016 363 0400	HA16B-PTH-2L/W-M40	
	with extended thread			
	M32	170 016 353 0320	HA16B-PTHV-2L/W-M32	
	PG21	170 016 353 0210	HA16B-PTHV-2L/W-PG21	
Bulkhead Mounted Housing 	----	170 016 370 0000	HA16B-ST-4B	
	----	with plastic cover 170 016 380 0000	HA16B-ST-4B-CV	
	----	with metal cover 170 016 390 0000	HA16B-ST-4B-MCV	

16B Metal Hoods/Housings


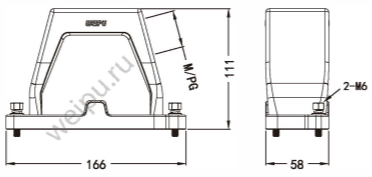

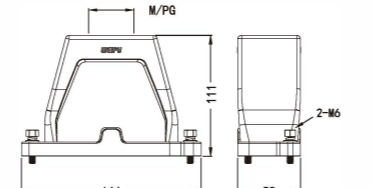

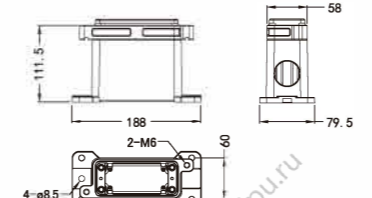

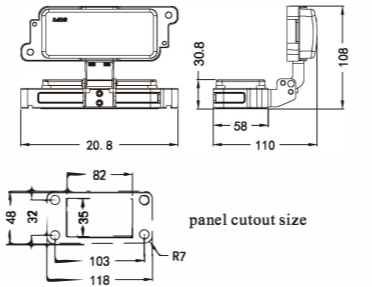
IP65

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)	
Surface Mounted Housings 	M25	170 016 400 0250	HA16B-SF-4B-M25		
	2M25	170 016 400 2250	HA16B-SF-4B-2M25		
	PG21	170 016 400 0210	HA16B-SF-4B-PG21		
	2PG21	170 016 400 2210	HA16B-SF-4B-2PG21		
	with plastic cover				
	M25	170 016 410 0250	HA16B-SF-4B-CV-M25		
	2M25	170 016 410 2250	HA16B-SF-4B-CV-2M25		
	PG21	170 016 410 0210	HA16B-SF-4B-CV-PG21		
	2PG21	170 016 410 2210	HA16B-SF-4B-CV-2PG21		
	with metal cover				
Surface Mounted Housings & High Structure 	M25	170 016 420 0250	HA16B-SF-4B-MCV-M25		
	2M25	170 016 420 2250	HA16B-SF-4B-MCV-2M25		
	PG21	170 016 420 0210	HA16B-SF-4B-MCV-PG21		
	2PG21	170 016 420 2210	HA16B-SF-4B-MCV-2PG21		
	with plastic cover				
	M32	170 016 430 0320	HA16B-SFH-4B-M32		
	2M32	170 016 430 2320	HA16B-SFH-4B-2M32		
	PG21	170 016 430 0210	HA16B-SFH-4B-PG21		
	2PG21	170 016 430 2210	HA16B-SFH-4B-2PG21		
	PG29	170 016 430 0290	HA16B-SFH-4B-PG29		
2PG29	170 016 430 2290	HA16B-SFH-4B-2PG29			
with metal cover					
removable metal cover 	connection type	Product Code	Part Number		
		use with double lock lever hoods 170 016 540 3000	HA16B-MCV-4B/1S		
		use with double lock lever bulkhead/surface mounted housings 170 016 540 6000	HA16B-MCV-4B/2		
	removable metal cover 		use with 4 lugs hoods 170 016 563 3000		HA16B-MCV-2L/W.1S
			use with 4 lugs bulkhead/surface mounted housings 170 016 563 6000		HA16B-MCV-2L/W.2



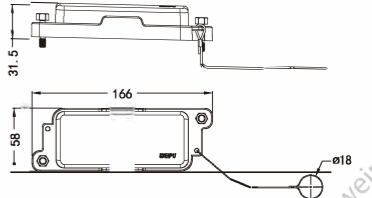


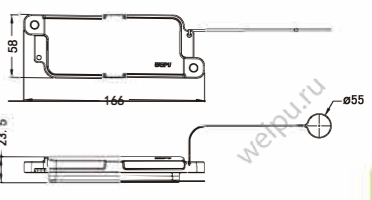
10B IP68/IP69K Hoods/Housings

IP68/IP69K

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods & High Structure 	bolt connection			
	M25	172 016 580 0250	HP16B/H-PSH-2S-M25	
	M32	172 016 580 0320	HP16B/H-PSH-2S-M32	
	M40	172 016 580 0400	HP16B/H-PSH-2S-M40	
	M50	172 016 580 0500	HP16B/H-PSH-2S-M50	
	PG21	172 016 580 0210	HP16B/H-PSH-2S-PG21	
	PG29	172 016 580 0290	HP16B/H-PSH-2S-PG29	
	PG36	172 016 580 0360	HP16B/H-PSH-2S-PG36	
	roll pin connection			
	M25	172 016 590 0250	HP16B/H-PSH-2T-M25	
	M32	172 016 590 0320	HP16B/H-PSH-2T-M32	
	M40	172 016 590 0400	HP16B/H-PSH-2T-M40	
	M50	172 016 590 0500	HP16B/H-PSH-2T-M50	
	PG21	172 016 590 0210	HP16B/H-PSH-2T-PG21	
PG29	172 016 590 0290	HP16B/H-PSH-2T-PG29		
PG36	172 016 590 0360	HP16B/H-PSH-2T-PG36		
Top Entry Hoods & High Structure 	bolt connection			
	M25	172 016 600 0250	HP16B/H-PTH-2S-M25	
	2M25	172 016 600 2250	HP16B/H-PTH-2S-2M25	
	M32	172 016 600 0320	HP16B/H-PTH-2S-M32	
	M40	172 016 600 0400	HP16B/H-PTH-2S-M40	
	M50	172 016 600 0500	HP16B/H-PTH-2S-M50	
	PG21	172 016 600 0210	HP16B/H-PTH-2S-PG21	
	2PG21	172 016 600 2210	HP16B/H-PTH-2S-2PG21	
	PG29	172 016 600 0290	HP16B/H-PTH-2S-PG29	
	PG36	172 016 600 0360	HP16B/H-PTH-2S-PG36	
	roll pin connection			
	M25	172 016 610 0250	HP16B/H-PTH-2T-M25	
	2M25	172 016 610 2250	HP16B/H-PTH-2T-2M25	
	M32	172 016 610 0320	HP16B/H-PTH-2T-M32	
M40	172 016 610 0400	HP16B/H-PTH-2T-M40		
M50	172 016 610 0500	HP16B/H-PTH-2T-M50		
PG21	172 016 610 0210	HP16B/H-PTH-2T-PG21		
2PG21	172 016 610 2210	HP16B/H-PTH-2T-2PG21		
PG29	172 016 610 0290	HP16B/H-PTH-2T-PG29		
PG36	172 016 610 0360	HP16B/H-PTH-2T-PG36		
Surface Mounted Housings & High Structure 	bolt connection			
	M25	172 016 620 0250	HP16B/H-SFH-2H-M25	
	M32	172 016 620 0320	HP16B/H-SFH-2H-M32	
	M40	172 016 620 0400	HP16B/H-SFH-2H-M40	
	2M40	172 016 620 2400	HP16B/H-SFH-2H-2M40	
	PG21	172 016 620 0210	HP16B/H-SFH-2H-PG21	
	PG29	172 016 620 0290	HP16B/H-SFH-2H-PG29	
	PG36	172 016 620 0360	HP16B/H-SFH-2H-PG36	
	roll pin connection			
	M25	172 016 630 0250	HP16B/H-SFH-2T-M25	
	M32	172 016 630 0320	HP16B/H-SFH-2T-M32	
	M40	172 016 630 0400	HP16B/H-SFH-2T-M40	
	2M40	172 016 630 2400	HP16B/H-SFH-2T-2M40	
	PG21	172 016 630 0210	HP16B/H-SFH-2T-PG21	
PG29	172 016 630 0290	HP16B/H-SFH-2T-PG29		
PG36	172 016 630 0360	HP16B/H-SFH-2T-PG36		
Bulkhead Mounted Housing 	----	bolt connection 172 016 640 0000	HP16B/H-ST-2H	
	----	roll pin connection 172 016 650 0000	HP16B/H-ST-2T	
	----	bolt connection with metal cover 172 016 660 0000	HP16B/H-ST-2H-MCV	
	----	bolt connection 172 016 670 0000	HP16B/H-ST-2T-MCV	


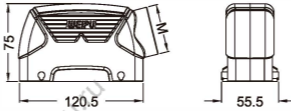

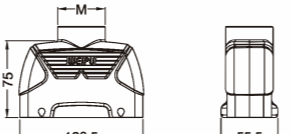

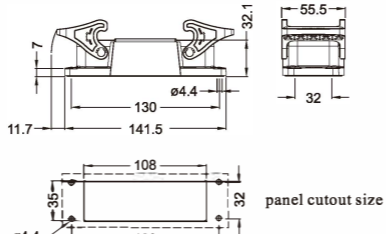

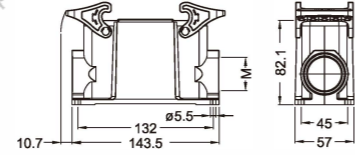

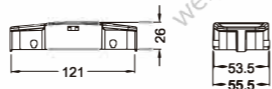

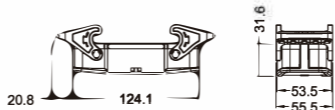
10B IP68/IP69K Hoods/Housings

IP68/IP69K

	connection type	Product Code	Part Number	Drawings (mm)
removable metal cover 		for housings bolt connection 172 016 680 0000	HP16B/H-MCV-2S	
		for housings roll pin connection 172 016 690 0000	HP16B/H-MCV-2T	
removable metal cover 		for hoods bolt connection 172 016 700 0000	HP16B/H-MCV-2H/1	
		for hoods roll pin connection 172 016 710 0000	HP16B/H-MCV-2T/1	

24B Plastic Hoods/Housings


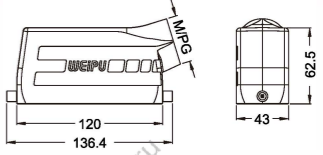

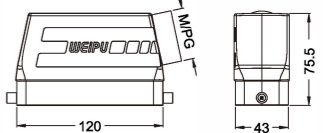


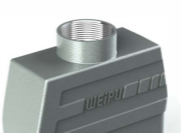


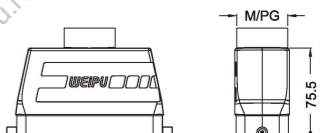

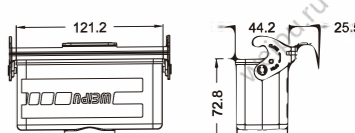

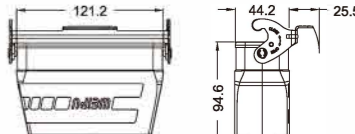
IP65

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods & High Structure 	M32	171 024 200 0320	HB24B-PSH-4B-M32	
	M40	171 024 200 0400	HB24B-PSH-4B-M40	
Top Entry Hoods & High Structure 	M32	171 024 210 0320	HB24B-PTH-4B-M32	
	M40	171 024 210 0400	HB24B-PTH-4B-M40	
Bulkhead Mounted Housing 	---	171 024 258 0000	HB24B-ST-2L/C	 panel cutout size
Surface Mounted Housings & High Structure 	M32	171 024 278 0320	HB24B-SFH-2L/C-M32	
	2M32	171 024 278 2320	HB24B-SFH-2L/C-2M32	
	M40	171 024 278 0400	HB24B-SFH-2L/C-M40	
	2M40	171 024 278 2400	HB24B-SFH-2L/C-2M40	
removable cover 	---	171 024 520 0000	HB24B-CV-4B/2	
removable cover 	---	171 024 578 0000	HB24B-CV-2L/C	

24B Metal Hoods/Housings

IP65


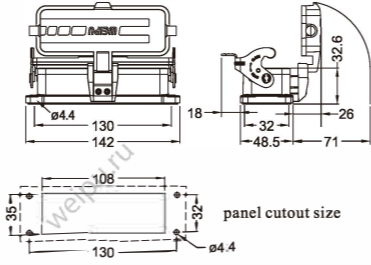

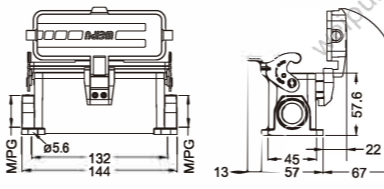

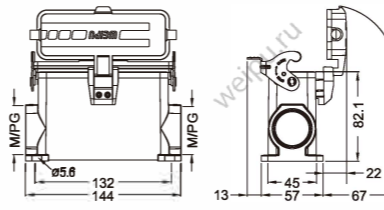
Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)	
Side Entry Hoods 	M25	170 024 010 0250	HA24B-PS-2B-M25		
	M32	170 024 010 0320	HA24B-PS-2B-M32		
	PG21	170 024 010 0210	HA24B-PS-2B-PG21		
Side Entry Hoods & High Structure 	---	170 024 720 0000	HA24B-PNH-2B		
	M40	170 024 030 0400	HA24B-PSH-2B-M40		
	with extended thread				
	M32	170 024 020 0320	HA24B-PSHV-2B-M32		
Top Entry Hoods 	PG21	170 024 020 0210	HA24B-PSHV-2B-PG21		
	PG29	170 024 020 0290	HA24B-PSHV-2B-PG29		
	M25	170 024 040 0250	HA24B-PT-2B-M25		
	M32	170 024 040 0320	HA24B-PT-2B-M32		
Top Entry Hoods & High Structure 	PG21	170 024 040 0210	HA24B-PT-2B-PG21		
	PG29	170 024 040 0290	HA24B-PT-2B-PG29		
	---	170 024 720 0000	HA24B-PNH-2B		
	M40	170 024 060 0400	HA24B-PTH-2B-M40		
Cable-to-Cable Housings 	with extended thread				
	M32	170 024 050 0320	HA24B-PTHV-2B-M32		
	PG21	170 024 050 0210	HA24B-PTHV-2B-PG21		
	PG29	170 024 050 0290	HA24B-PTHV-2B-PG29		
Cable-to-Cable Housings & High Structure 	M25	170 024 073 0250	HA24B-MC-1L/W-M25		
	M32	170 024 073 0320	HA24B-MC-1L/W-M32		
	PG21	170 024 073 0210	HA24B-MC-1L/W-PG21		
	PG29	170 024 073 0290	HA24B-MC-1L/W-PG29		
Cable-to-Cable Housings & High Structure 	M40	170 024 093 0400	HA24B-MCH-1L/W-M40		
	with extended thread				
	M32	170 024 083 0320	HA24B-MCHV-1L/W-M32		
	PG21	170 024 083 0210	HA24B-MCHV-1L/W-PG21		
	PG29	170 024 083 0290	HA24B-MCHV-1L/W-PG29		

24B Metal Hoods/Housings

IP65


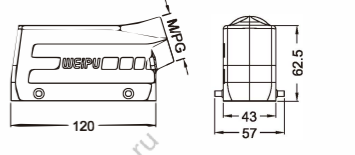

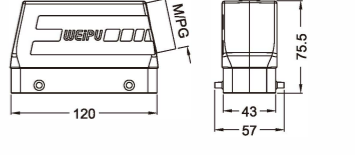

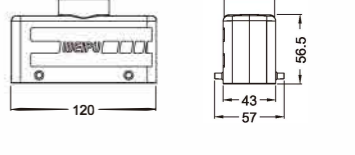



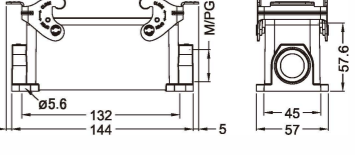
Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Bulkhead Mounted Housing 	----	170 024 103 0000	HA24B-ST-1L/W	
	with plastic cover			
	----	170 024 113 0000	HA24B-ST-1L/W-CV	
Surface Mounted Housings 	with metal cover			
	----	170 024 123 0000	HA24B-ST-1L/W-MCV	
	M25	170 024 133 0250	HA24B-SF-1L/W-M25	
	2M25	170 024 133 2250	HA24B-SF-1L/W-2M25	
	PG21	170 024 133 0210	HA24B-SF-1L/W-PG21	
	2PG21	170 024 133 2210	HA24B-SF-1L/W-2PG21	
	with plastic cover			
	M25	170 024 143 0250	HA24B-SF-1L/W-CV-M25	
	2M25	170 024 143 2250	HA24B-SF-1L/W-CV-2M25	
	PG21	170 024 143 0210	HA24B-SF-1L/W-CV-PG21	
	2PG21	170 024 143 2210	HA24B-SF-1L/W-CV-2PG21	
	with metal cover			
	M25	170 024 153 0250	HA24B-SF-1L/W-MCV-M25	
	2M25	170 024 153 2250	HA24B-SF-1L/W-MCV-2M25	
	PG21	170 024 153 0210	HA24B-SF-1L/W-MCV-PG21	
2PG21	170 024 153 2210	HA24B-SF-1L/W-MCV-2PG21		
Surface Mounted Housings & High Structure 	with plastic cover			
	M32	170 024 163 0320	HA24B-SFH-1L/W-M32	
	2M32	170 024 163 2320	HA24B-SFH-1L/W-2M32	
	PG21	170 024 163 0210	HA24B-SFH-1L/W-PG21	
	2PG21	170 024 163 2210	HA24B-SFH-1L/W-2PG21	
	PG29	170 024 163 0290	HA24B-SFH-1L/W-PG29	
	2PG29	170 024 163 2290	HA24B-SFH-1L/W-2PG29	
	with metal cover			
	M32	170 024 173 0320	HA24B-SFH-1L/W-CV-M32	
	2M32	170 024 173 2320	HA24B-SFH-1L/W-CV-2M32	
	PG21	170 024 173 0210	HA24B-SFH-1L/W-CV-PG21	
	2PG21	170 024 173 2210	HA24B-SFH-1L/W-CV-2PG21	
	PG29	170 024 173 0290	HA24B-SFH-1L/W-CV-PG29	
	2PG29	170 024 173 2290	HA24B-SFH-1L/W-CV-2PG29	
	with metal cover			
	M32	170 024 183 0320	HA24B-SFH-1L/W-MCV-M32	
	2M32	170 024 183 2320	HA24B-SFH-1L/W-MCV-2M32	
	PG21	170 024 183 0210	HA24B-SFH-1L/W-MCV-PG21	
2PG21	170 024 183 2210	HA24B-SFH-1L/W-MCV-2PG21		
PG29	170 024 183 0290	HA24B-SFH-1L/W-MCV-PG29		
2PG29	170 024 183 2290	HA24B-SFH-1L/W-MCV-2PG29		

24B Metal Hoods/Housings

IP65


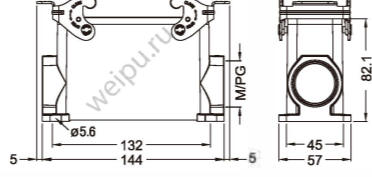

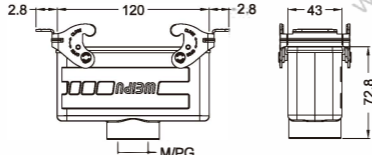

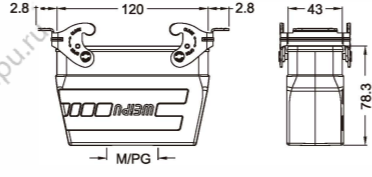

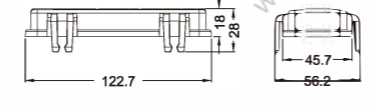



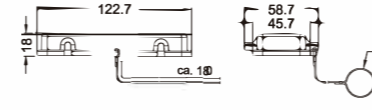
Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M25	170 024 190 0250	HA24B-PS-4B-M25	
	M32	170 024 190 0320	HA24B-PS-4B-M32	
	PG21	170 024 190 0210	HA24B-PS-4B-PG21	
Side Entry Hoods & High Structure 	----	170 024 720 0000	HA24B-PNH-4B	
	M32	170 024 200 0320	HA24B-PSHV-4B-M32	
	M40	170 024 210 0400	HA24B-PSH-4B-M40	
	PG21	170 024 200 0210	HA24B-PSHV-4B-PG21	
	PG29	170 024 200 0290	HA24B-PSHV-4B-PG29	
Top Entry Hoods 	M25	170 024 220 0250	HA24B-PT-4B-M25	
	M32	170 024 220 0320	HA24B-PT-4B-M32	
	PG21	170 024 220 0210	HA24B-PT-4B-PG21	
	PG29	170 024 220 0290	HA24B-PT-4B-PG29	
	Top Entry Hoods & High Structure 	----	170 024 720 0000	
M40		170 024 240 0400	HA24B-PTH-4B-M40	
2M32		170 024 240 2320	HA24B-PTH-4B-2M32	
M32		170 024 230 0320	HA24B-PTHV-4B-M32	
PG21		170 024 230 0210	HA24B-PTHV-4B-PG21	
PG29		170 024 230 0290	HA24B-PTHV-4B-PG29	
Bulkhead Mounted Housing 		----	170 024253 0000	HA24B-ST-2L/W
Surface Mounted Housings 	M25	170 024 263 0250	HA24B-SF-2L/W-M25	
	2M25	170 024 263 2250	HA24B-SF-2L/W-2M25	
	PG21	170 024 263 0210	HA24B-SF-2L/W-PG21	
	2PG21	170 024 263 2210	HA24B-SF-2L/W-2PG21	

24B Metal Hoods/Housings

IP65


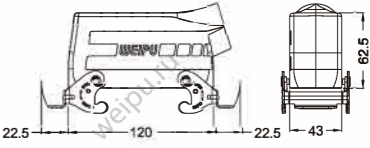

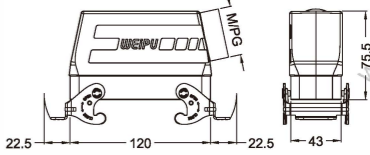
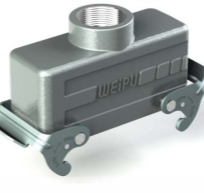
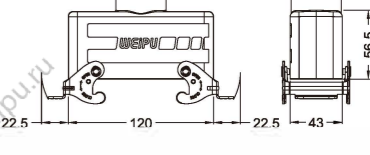
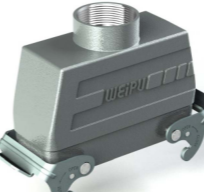
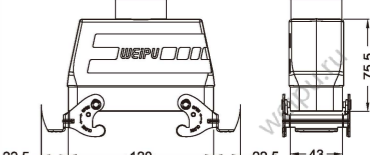

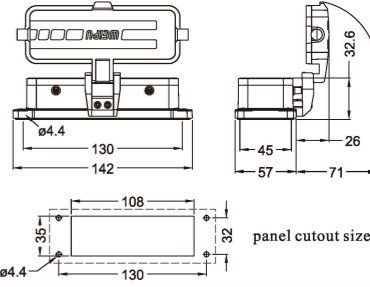
Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Surface Mounted Housings & High Structure 	M32	170 024 273 0320	HA24B-SFH-2L/W-M32	
	2M32	170 024 273 2320	HA24B-SFH-2L/W-2M32	
	M40	170 024 273 0400	HA24B-SFH-2L/W-M40	
	PG21	170 024 273 0210	HA24B-SFH-2L/W-PG21	
	2PG21	170 024 273 2210	HA24B-SFH-2L/W-2PG21	
	PG29	170 024 273 0290	HA24B-SFH-2L/W-PG29	
	2PG29	170 024 273 2290	HA24B-SFH-2L/W-2PG29	
Cable-to-Cable Housings 	M25	170 024 283 0250	HA24B-MC-2L/W-M25	
	M32	170 024 283 0320	HA24B-MC-2L/W-M32	
	PG21	170 024 283 0210	HA24B-MC-2L/W-PG21	
	PG29	170 024 283 0290	HA24B-MC-2L/W-PG29	
Cable-to-Cable Housings & High Structure 	M40	170 024 303 0400	HA24B-MCH-2L/W-M40	
	with extended thread			
	M32	170 024 293 0320	HA24B-MCHV-2L/W-M32	
	PG21	170 024 293 0210	HA24B-MCHV-2L/W-PG21	
	PG29	170 024 293 0290	HA24B-MCHV-2L/W-PG29	
plastic cover 	---	use with 4 lugs hoods 170 024 500 0000	HA24B-CV-4C	
	removable plastic cover 	 	use with double lock lever housings 170 024 500 5000	
use with double lock lever bulkhead/surface mounted housings 170 024 500 6000			HA24B-CV-4B/2	

24B Metal Hoods/Housings

IP65

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M25	170 024 313 0250	HA24B-PS-2L/W-M25	
	M32	170 024 313 0320	HA24B-PS-2L/W-M32	
	PG21	170 024 313 0210	HA24B-PS-2L/W-PG21	
Side Entry Hoods & High Structure 	M40	170 024 333 0400	HA24B-PSH-2L/W-M40	
	with extended thread			
	M32	170 024 323 0320	HA24B-PSHV-2L/W-M32	
	PG21	170 024 323 0210	HA24B-PSHV-2L/W-PG21	
Top Entry Hoods 	M25	170 024 343 0250	HA24B-PT-2L/W-M25	
	M32	170 024 343 0320	HA24B-PT-2L/W-M32	
	PG21	170 024 343 0210	HA24B-PT-2L/W-PG21	
Top Entry Hoods & High Structure 	M40	170 024 363 0400	HA24B-PTH-2L/W-M40	
	with extended thread			
	M32	170 024 353 0320	HA24B-PTHV-2L/W-M32	
	PG21	170 024 353 0210	HA24B-PTHV-2L/W-PG21	
Bulkhead Mounted Housing 	---	170 024 370 0000	HA24B-ST-4B	
	---	with plastic cover 170 024 380 0000	HA24B-ST-4B-CV	
	---	with metal cover 170 024 390 0000	HA24B-ST-4B-MCV	

24B Metal Hoods/Housings IP65

Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)	
Surface Mounted Housings	M25	170 024 400 0250	HA24B-SF-4B-M25		
	2M25	170 024 400 2250	HA24B-SF-4B-2M25		
	PG21	170 024 400 0210	HA24B-SF-4B-PG21		
	2PG21	170 024 400 2210	HA24B-SF-4B-2PG21		
	with plastic cover				
	M25	170 024 410 0250	HA24B-SF-4B-CV-M25		
	2M25	170 024 410 2250	HA24B-SF-4B-CV-2M25		
	PG21	170 024 410 0210	HA24B-SF-4B-CV-PG21		
	2PG21	170 024 410 2210	HA24B-SF-4B-CV-2PG21		
	with metal cover				
M25	170 024 420 0250	HA24B-SF-4B-MCV-M25			
2M25	170 024 420 2250	HA24B-SF-4B-MCV-2M25			
PG21	170 024 420 0210	HA24B-SF-4B-MCV-PG21			
2PG21	170 024 420 2210	HA24B-SF-4B-MCV-2PG21			
with plastic cover					
M32	170 024 430 0320	HA24B-SFH-4B-M32			
2M32	170 024 430 2320	HA24B-SFH-4B-2M32			
PG21	170 024 430 0210	HA24B-SFH-4B-PG21			
2PG21	170 024 430 2210	HA24B-SFH-4B-2PG21			
PG29	170 024 430 0290	HA24B-SFH-4B-PG29			
2PG29	170 024 430 2290	HA24B-SFH-4B-2PG29			
with plastic cover					
M32	170 024 440 0320	HA24B-SFH-4B-CV-M32			
2M32	170 024 440 2320	HA24B-SFH-4B-CV-2M32			
PG21	170 024 440 0210	HA24B-SFH-4B-CV-PG21			
2PG21	170 024 440 2210	HA24B-SFH-4B-CV-2PG21			
PG29	170 024 440 0290	HA24B-SFH-4B-CV-PG29			
2PG29	170 024 440 2290	HA24B-SFH-4B-CV-2PG29			
with metal cover					
M32	170 024 450 0320	HA24B-SFH-4B-MCV-M32			
2M32	170 024 450 2320	HA24B-SFH-4B-MCV-2M32			
PG21	170 024 450 0210	HA24B-SFH-4B-MCV-PG21			
2PG21	170 024 450 2210	HA24B-SFH-4B-MCV-2PG21			
PG29	170 024 450 0290	HA24B-SFH-4B-MCV-PG29			
2PG29	170 024 450 2290	HA24B-SFH-4B-MCV-2PG29			



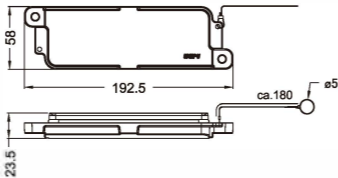



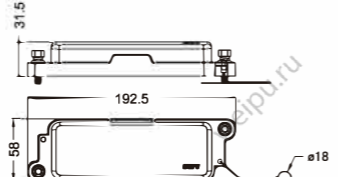

	connection type	Product Code	Part Number	Drawings (mm)
removable metal cover		use with double lock lever hoods 170 024 540 3000	HA24B-MCV-4B/1S	
		use with double lock lever bulkhead/surface mounted housings 170 024 540 6000	HA24B-MCV-4B/2	
removable metal cover		use with 4 lugs hoods 170 024 563 3000	HA24B-MCV-2L/W.1S	
		use with 4 lugs bulkhead/surface mounted housings 170 024 563 6000	HA24B-MCV-2L/W.2	

24B IP68/IP69K Hoods/Housings IP68/IP69K

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods & High Structure	bolt connection			
	M25	172 024 580 0250	HP24B/H-PSH-2S-M25	
	M32	172 024 580 0320	HP24B/H-PSH-2S-M32	
	M40	172 024 580 0400	HP24B/H-PSH-2S-M40	
	M50	172 024 580 0500	HP24B/H-PSH-2S-M50	
	PG21	172 024 580 0210	HP24B/H-PSH-2S-PG21	
	PG29	172 024 580 0290	HP24B/H-PSH-2S-PG29	
	PG36	172 024 580 0360	HP24B/H-PSH-2S-PG36	
	roll pin connection			
	M25	172 024 590 0250	HP24B/H-PSH-2T-M25	
M32	172 024 590 0320	HP24B/H-PSH-2T-M32		
M40	172 024 590 0400	HP24B/H-PSH-2T-M40		
M50	172 024 590 0500	HP24B/H-PSH-2T-M50		
PG21	172 024 590 0210	HP24B/H-PSH-2T-PG21		
PG29	172 024 590 0290	HP24B/H-PSH-2T-PG29		
PG36	172 024 590 0360	HP24B/H-PSH-2T-PG36		
bolt connection				
M25	172 024 600 0250	HP24B/H-PTH-2S-M25		
M32	172 024 600 0320	HP24B/H-PTH-2S-M32		
M40	172 024 600 0400	HP24B/H-PTH-2S-M40		
M50	172 024 600 0500	HP24B/H-PTH-2S-M50		
PG21	172 024 600 0210	HP24B/H-PTH-2S-PG21		
2PG21	172 024 600 2210	HP24B/H-PTH-2S-2PG21		
PG29	172 024 600 0290	HP24B/H-PTH-2S-PG29		
PG36	172 024 600 0360	HP24B/H-PTH-2S-PG36		
roll pin connection				
M25	172 024 610 0250	HP24B/H-PTH-2T-M25		
M32	172 024 610 0320	HP24B/H-PTH-2T-M32		
M40	172 024 610 0400	HP24B/H-PTH-2T-M40		
M50	172 024 610 0500	HP24B/H-PTH-2T-M50		
PG21	172 024 610 0210	HP24B/H-PTH-2T-PG21		
2PG21	172 024 610 2210	HP24B/H-PTH-2T-2PG21		
PG29	172 024 610 0290	HP24B/H-PTH-2T-PG29		
PG36	172 024 610 0360	HP24B/H-PTH-2T-PG36		
bolt connection				
M25	172 024 620 0250	HP24B/H-SFH-2H-M25		
M32	172 024 620 0320	HP24B/H-SFH-2H-M32		
M40	172 024 620 0400	HP24B/H-SFH-2H-M40		
2M40	172 024 620 2400	HP24B/H-SFH-2H-2M40		
PG21	172 024 620 0210	HP24B/H-SFH-2H-PG21		
PG29	172 024 620 0290	HP24B/H-SFH-2H-PG29		
PG36	172 024 620 0360	HP24B/H-SFH-2H-PG36		
roll pin connection				
M25	172 024 630 0250	HP24B/H-SFH-2T-M25		
M32	172 024 630 0320	HP24B/H-SFH-2T-M32		
M40	172 024 630 0400	HP24B/H-SFH-2T-M40		
2M40	172 024 630 2400	HP24B/H-SFH-2T-2M40		
PG21	172 024 630 0210	HP24B/H-SFH-2T-PG21		
PG29	172 024 630 0290	HP24B/H-SFH-2T-PG29		
PG36	172 024 630 0360	HP24B/H-SFH-2T-PG36		
Bulkhead Mounted Housing	bolt connection			
	----	172 024 640 0000	HP24B/H-ST-2H	
	roll pin connection			
	----	172 024 650 0000	HP24B/H-ST-2T	
	with metal cover			
	----	172 024 660 0000	HP24B/H-ST-2H-MCV	
roll pin connection				
----	172 024 670 0000	HP24B/H-ST-2T-MCV		


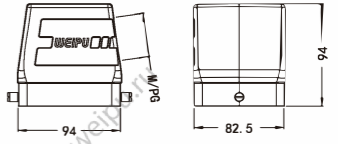

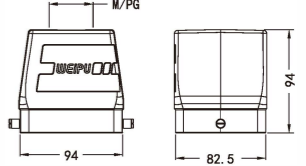

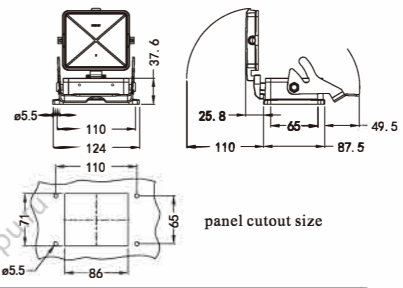
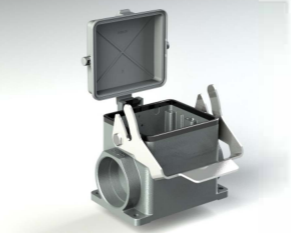
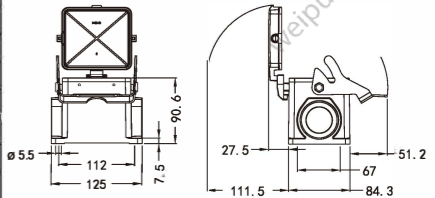
24B Metal Hoods/Housings

IP65

	connection type	Product Code	Part Number	Drawings (mm)
removable metal cover for housings 		bolt connection 172 024 680 0000	HP24B/H-MCV-2S	
		roll pin connection 172 024 690 0000	HP24B/H-MCV-2T	
removable metal cover for hoods 		bolt connection 172 024 700 0000	HP24B/H-MCV-2H/1	
		roll pin connection 172 024 710 0000	HP24B/H-MCV-2T/1	

32B Metal Hoods/Housings


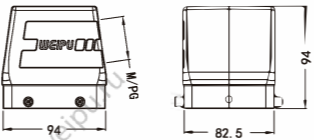

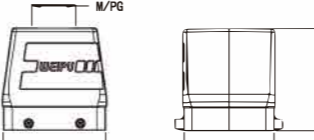

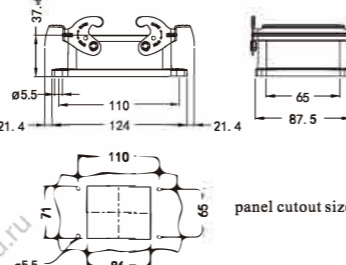
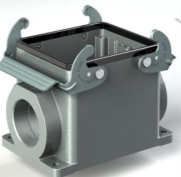
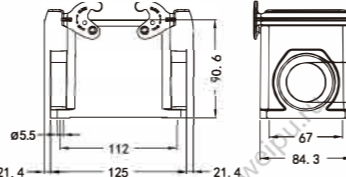

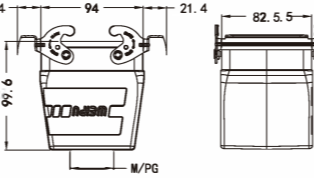
IP65

	thread	Product Code	Part Number	Drawings (mm)	
Side Entry Hoods 	M32	170 032 010 0320	HA32B-PS-2B-M32		
	M40	170 032 010 0400	HA32B-PS-2B-M40		
	M50	170 032 010 0500	HA32B-PS-2B-M50		
	PG29	170 032 010 0290	HA32B-PS-2B-PG29		
	PG36	170 032 010 0360	HA32B-PS-2B-PG36		
	PG42	170 032 010 0420	HA32B-PS-2B-PG42		
Top Entry Hoods 	M32	170 032 040 0320	HA32B-PT-2B-M32		
	M40	170 032 040 0400	HA32B-PT-2B-M40		
	M50	170 032 040 0500	HA32B-PT-2B-M50		
	PG29	170 032 040 0290	HA32B-PT-2B-PG29		
	PG36	170 032 040 0360	HA32B-PT-2B-PG36		
	PG42	170 032 040 0420	HA32B-PT-2B-PG42		
Bulkhead Mounted Housing 	---	170 032 107 0000	HA32B-ST-1L/S		
	---	with plastic cover 170 032 117 0000	HA32B-ST-1L/S-CV		
	---	with metal cover 170 032 127 0000	HA32B-ST-1L/S-MCV		
Surface Mounted Housings & High Structure 	M32	170 032 137 0320	HA32B-SF-1L/S-M32		
	2M32	170 032 137 2320	HA32B-SF-1L/S-2M32		
	M40	170 032 137 0400	HA32B-SF-1L/S-M40		
	2M40	170 032 137 2400	HA32B-SF-1L/S-2M40		
	PG29	170 032 137 0290	HA32B-SF-1L/S-PG29		
	2PG29	170 032 137 2290	HA32B-SF-1L/S-2PG29		
	PG36	170 032 137 0360	HA32B-SF-1L/S-PG36		
	2PG36	170 032 137 2360	HA32B-SF-1L/S-2PG36		
	with plastic cover				
	M32	170 032 147 0320	HA32B-SF-1L/S-CV-M32		
	2M32	170 032 147 2320	HA32B-SF-1L/S-CV-2M32		
	M40	170 032 147 0400	HA32B-SF-1L/S-CV-M40		
	2M40	170 032 147 2400	HA32B-SF-1L/S-CV-2M40		
	PG29	170 032 147 0290	HA32B-SF-1L/S-CV-PG29		
	2PG29	170 032 147 2290	HA32B-SF-1L/S-CV-2PG29		
	PG36	170 032 147 0360	HA32B-SF-1L/S-CV-PG36		
	2PG36	170 032 147 2360	HA32B-SF-1L/S-CV-2PG36		
	with metal cover				
	M32	170 032 157 0320	HA32B-SF-1L/S-MCV-M32		
	2M32	170 032 157 2320	HA32B-SF-1L/S-MCV-2M32		
	M40	170 032 157 0400	HA32B-SF-1L/S-MCV-M40		
	2M40	170 032 157 2400	HA32B-SF-1L/S-MCV-2M40		
	PG29	170 032 157 0290	HA32B-SF-1L/S-MCV-PG29		
	2PG29	170 032 157 2290	HA32B-SF-1L/S-MCV-2PG29		
PG36	170 032 157 0360	HA32B-SF-1L/S-MCV-PG36			
2PG36	170 032 157 2360	HA32B-SF-1L/S-MCV-2PG36			

32B Metal Hoods/Housings

IP65


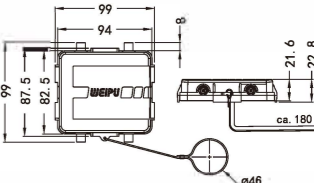

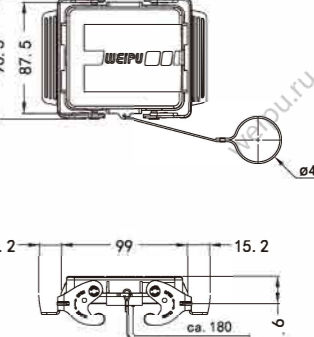
Lock selection, see page P24-02

	thread	Product Code	Part Number	Drawings (mm)
Side Entry Hoods 	M32	170 032 190 0320	HA32B-PS-4B-M32	
	M40	170 032 190 0400	HA32B-PS-4B-M40	
	M50	170 032 190 0500	HA32B-PS-4B-M50	
	PG29	170 032 190 0290	HA32B-PS-4B-PG29	
	PG36	170 032 190 0360	HA32B-PS-4B-PG36	
	PG42	170 032 190 0420	HA32B-PS-4B-PG42	
Top Entry Hoods 	M32	170 032 220 0320	HA32B-PT-4B-M32	
	M40	170 032 220 0400	HA32B-PT-4B-M40	
	M50	170 032 220 0500	HA32B-PT-4B-M50	
	PG29	170 032 220 0290	HA32B-PT-4B-PG29	
	PG36	170 032 220 0360	HA32B-PT-4B-PG36	
	PG42	170 032 220 0420	HA32B-PT-4B-PG42	
Bulkhead Mounted Housing 	----	170 032 253 0000	HA32B-ST-2L/W	
Surface Mounted Housings 	M32	170 032 263 0320	HA32B-SF-2L/W-M32	
	2M32	170 032 263 2320	HA32B-SF-2L/W-2M32	
	M40	170 032 263 0400	HA32B-SF-2L/W-M40	
	2M40	170 032 263 2400	HA32B-SF-2L/W-2M40	
	PG29	170 032 263 0290	HA32B-SF-2L/W-PG29	
	2PG29	170 032 263 2290	HA32B-SF-2L/W-2PG29	
	PG36	170 032 263 0360	HA32B-SF-2L/W-PG36	
	2PG36	170 032 263 2360	HA32B-SF-2L/W-2PG36	
2PG42	170 032 263 2420	HA32B-SF-2L/W-2PG42		
Cable-to-Cable Housings 	M32	170 032 283 0320	HA32B-MC-2L/W-M32	
	M40	170 032 283 0400	HA32B-MC-2L/W-M40	
	M50	170 032 283 0500	HA32B-MC-2L/W-M50	
	PG29	170 032 283 0290	HA32B-MC-2L/W-PG29	
	PG36	170 032 283 0360	HA32B-MC-2L/W-PG36	
	PG42	170 032 283 0420	HA32B-MC-2L/W-PG42	

32B Metal Hoods/Housings


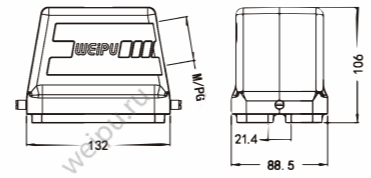

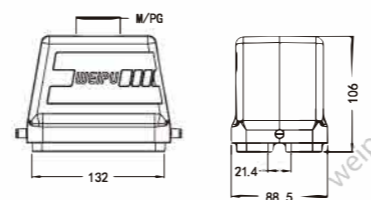

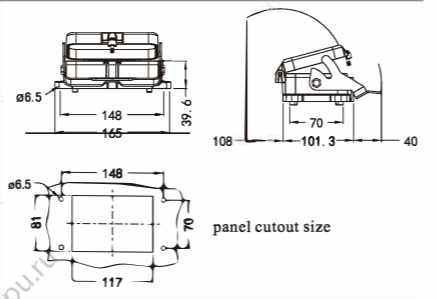

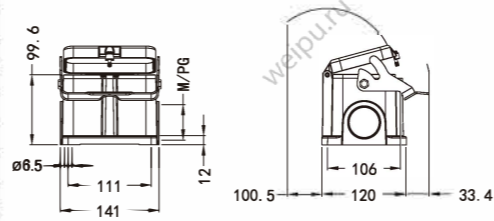
IP65

Lock selection, see page P24-02



	thread	Product Code	Part Number	Drawings (mm)
removable metal cover 		use with double lock lever bulkhead/surface mounted housings 170 032 540 6000	HA32B-MCV-4B/2	
removable metal cover 		use with 4 lugs hoods 170 032 563 3000	HA32B-MCV-2L/W.1S	

48B Metal Hoods/Housings

IP65

	thread	Product Code	Part Number	Drawings (mm)	
Side Entry Hoods 	M32	170 048 010 0320	HA48B-PS-2B-M32		
	M40	170 048 010 0400	HA48B-PS-2B-M40		
	M50	170 048 010 0500	HA48B-PS-2B-M50		
	PG29	170 048 010 0290	HA48B-PS-2B-PG29		
	PG36	170 048 010 0360	HA48B-PS-2B-PG36		
Top Entry Hoods 	M32	170 048 040 0320	HA48B-PT-2B-M32		
	M40	170 048 040 0400	HA48B-PT-2B-M40		
	M50	170 048 040 0500	HA48B-PT-2B-M50		
	PG29	170 048 040 0290	HA48B-PT-2B-PG29		
	PG36	170 048 040 0360	HA48B-PT-2B-PG36		
Bulkhead Mounted Housing 	----	170 048 107 0000	HA48B-ST-1L/S		
	----	with plastic cover 170 048 117 0000	HA48B-ST-1L/S-CV		
	----	with metal cover 170 048 127 0000	HA48B-ST-1L/S-MCV		
Surface Mounted Housings & High Structure 	M32	170 048 137 0320	HA48B-SF-1L/S-M32		
	2M32	170 048 137 2320	HA48B-SF-1L/S-2M32		
	M40	170 048 137 0400	HA48B-SF-1L/S-M40		
	2M40	170 048 137 2400	HA48B-SF-1L/S-2M40		
	PG29	170 048 137 0290	HA48B-SF-1L/S-PG29		
	2PG29	170 048 137 2290	HA48B-SF-1L/S-2PG29		
	PG36	170 048 137 0360	HA48B-SF-1L/S-PG36		
	2PG36	170 048 137 2360	HA48B-SF-1L/S-2PG36		
	with plastic cover				
	M32	170 048 147 0320	HA48B-SF-1L/S-CV-M32		
	2M32	170 048 147 2320	HA48B-SF-1L/S-CV-2M32		
	M40	170 048 147 0400	HA48B-SF-1L/S-CV-M40		
	2M40	170 048 147 2400	HA48B-SF-1L/S-CV-2M40		
	PG29	170 048 147 0290	HA48B-SF-1L/S-CV-PG29		
	2PG29	170 048 147 2290	HA48B-SF-1L/S-CV-2PG29		
	PG36	170 048 147 0360	HA48B-SF-1L/S-CV-PG36		
	2PG36	170 048 147 2360	HA48B-SF-1L/S-CV-2PG36		
	with metal cover				
	M32	170 048 157 0320	HA48B-SF-1L/S-MCV-M32		
	2M32	170 048 157 2320	HA48B-SF-1L/S-MCV-2M32		
M40	170 048 157 0400	HA48B-SF-1L/S-MCV-M40			
2M40	170 048 157 2400	HA48B-SF-1L/S-MCV-2M40			
PG29	170 048 157 0290	HA48B-SF-1L/S-MCV-PG29			
2PG29	170 048 157 2290	HA48B-SF-1L/S-MCV-2PG29			
PG36	170 048 157 0360	HA48B-SF-1L/S-MCV-PG36			
2PG36	170 048 157 2360	HA48B-SF-1L/S-MCV-2PG36			

Optional locks

	Mark	Material	Description	Part Number	Product Code
	L/GC	Stainless steel+TPR	High-strength lock, with soft rubber protection, suitable for harsh environments	HA16B-SFH-2L/GC-M25	170 016 271 0250
	L/G	Stainless steel	High-strength lock, suitable for harsh environments	HA16B-SFH-2L/G-M25	170 016 272 0250
	L/W	Iron zinc-nickel alloy + metal spring	Common lock, suitable for general industrial environment	HA16B-SFH-2L/W-M25	170 016 273 0250
	L/P	Plastic+Stainless Steel	Detachable lock, suitable for general industrial environment	HA16B-SFH-2L/P-M25	170 016 275 0250
	L/E	Plastic+Stainless Steel	Detachable lock, suitable for general industrial environment	HA16B-SFH-2L/E-M25	170 016 276 0250

Tools

Removal tool

Part Number	Product Code
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5A Removal tool



RT-5A

193 004 001 2000

HD Series 10A Removal tool



RT-HD/10A

193 004 002 2000

HEE Series 16A Removal tool



RT-HEE/16A

193 004 003 2000

Crimp tool

Crimping wire range	Part Number	Product Code
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0.041mm² AWG 25-11

CTW-0.14/4

104 980 014



0.37-4mm²

CT-0.37/4

193 003 003 0000