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TE Heavy Duty Connectors - Applications







Rolling Stock

Machinery

Factory Automation

The broad range of Heavy Duty Connectors (HDC) are designed for reliably performing under the most demanding operating and harsh environmental conditions. With a tested salt spray and corrosion resistance of over 1000 hours and an IP 69 K rating, these connectors are suited for various applications in industrial environments. Thanks to their modular system, TE's Heavy Duty Connectors offer power, signal and data transmission in one connector.

TE CONNECTIVITY AT YOUR SERVICE



TE Connectivity Online

The TE Connectivity website is an innovative and interactive source for application information, product updates and technical solutions. Our step-by-step software makes our website intuitive and user-friendly to better serve you! Please contact us at: te.com

Product Information Centers

You've got questions? TE's Product Information Centers (PIC) will help you get answers. Contact a technical product information specialist.

- Email us
- Call us
- Chat with us

Please go to te.com/help for more information.

Internet

te.com



Restriction on the Use of Hazardous Substances (RoHS)

At TE Connectivity (TE), we are ready to support your RoHS requirements. We have assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials. Part numbers in this catalog are identified as:

ROHS COMPLIANT

Part numbers in this catalog are RoHS Compliant, unless marked otherwise.

These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electricelectronic products sold into the EU as of 1 July 2006.

Note: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

NON-ROHS COMPLIANT

These part numbers are identified with a "♠" symbol. These products do not comply with the material restrictions of the European Union Directive 2002/95/EC.

5 OF 6 COMPLIANT

A "O" symbol identifies these part numbers. These products do not fully comply with the European Union Directive 2002/95/EC because they contain lead in solderable interfaces (they do not contain any of the other five restricted substances above allowable limits). However, these products may be suitable for use in RoHS applications where there is an application-based exception for lead in solders, such as the server, storage, or networking infrastructure exemption.

Note: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced below.

GETTING THE INFORMATION YOU NEED

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog: te.com/customersupport/productcoinpliance
- More detailed information regarding the definitions used above

So whatever your questions when it comes to RoHS, we've got the answers at www.te.com/leadfree



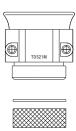


General overview of heavy duty connectors

General features	TE's HDC product series is designed for data, signal and power connections in harsh environments. The modular connector design provides a high degree of flexibility so solutions can be customized for different applications such as machinery, robotics, railway, wind energy and conventional energy generation and distribution.
Inserts	HDC products consist of three key elements: inserts, contacts and hoods and housings. The inserts and contacts are modular and assembled together to provide electrical performance offering crimp-, screw- and spring-clamp termination technology.
Enclosures	The hoods and housings are made of powder coated die cast aluminum alloy or of thermoplastic and are protecting the connector inserts against the ingress of dust or water according to the degree of protection IP 65, IP 68 and IP 69 K. Cable glands in different versions or DIN-rail mounts are completing the connector-solutions as accessories.
Customized design	For customer's special requirement, we can provide customized design. Please contact us.
	Specifications DIN VDE 0110 Concerning clearance and creepage distances DIN VDE 0627 Connectors and plug devices
Specifications, Standards and Approvals	2. Standards DIN EN 175 301-801 DIN EN 60664-1 DIN EN 61 984 IEC 60 529
	3. Approvals



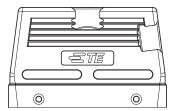
Connector components



CABLE FITTING

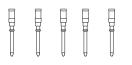
Special cable fittings for protection up to IP69K and for electro-magnetic compatibility available





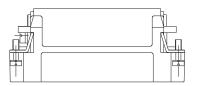
Standard and corrosion-resistant connector hoods:

- low and high construction
- 4 different locking systems
- · different cable entries and directions:
 - M Thread
 - PG Thread



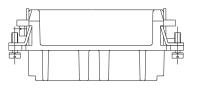
CONTACTS

Silver or gold plated Solid machined contacts with screw, spring or crimp termination Stamped and formed contacts



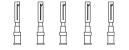
MALE INSERT

Screw, Spring clamp or crimp terminal

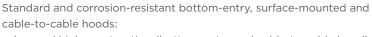


FEMALE INSERT

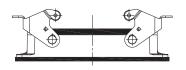
Screw, Spring clamp or crimp terminal



HOOD AND HOUSING



- low and high construction (bottom-entry and cable-to-cable hood) with/without cover
- 4 different locking systems





Terminal types

Screw dimensions and tightening torque for screw terminals

Wire gauge (mm²)	1.5	2.5	4.0	6.0	10	16
Screw thread	МЗ	МЗ	M3.5	M4	M4	M6
Test moment of torque (Nm)	0.5	0.5	0.8	1.2	1.2	1.2
Min. pull-out for stranded wire (N)	40	50	60	80	90	100

Spring terminal

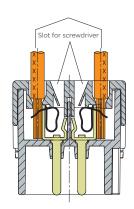
No special tools

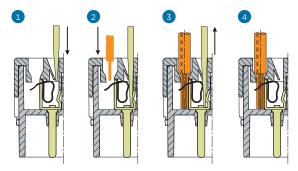


60% faster



One conductor per termination





3.5x0.5mm Screwdriver width: 3.5x0.5mm

SCREW TERMINAL

The screw terminal is the most common type of connection. Ratings are based on VDE 0609/EN 60 999. Please refer to the table at the left for the tightening torque.

The series HE, HSB, HAVE are equipped with a wire protection, thus the use of ferrules is not necessary. The series HA is not equipped with wire protection and ferrules must be used.

SPRING TERMINAL

The spring terminal offers a vibration proof termination for solid and stranded wires with cross sections ranging from 0.14 mm^2 to 2.5 mm^2 (AWG 26-14).

Easy operation of the spring terminal with a screw driver, which is inserted in the same direction of the cable opening.

Internationally approved by UL, CSA, VDE.

CRIMP TERMINATION

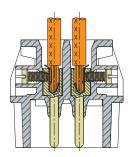
A proper crimp connection is gastight, therefore corrosion free and represents a cold weld of the parts being connected. Wires to be connected must be matched with the correct size of crimp contacts. The crimp termination represents a highly reliable vibration proof connection with low contact resistance and highest contact density which can be applied with manual and automatic crimping tools.



Terminal types

SCREW TERMINAL

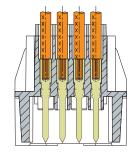
HA series HE, HVE series HSB series HK series HWK series HEAV series



Inserts	Max. wir	e gauge	Stripping length
	mm²	AWG	L (mm)
HA-003, HA-004	2.5	14	4.5
HA, HEAV	2.5	14	7.5
HE, HVE	2.5	14	7.5
HSB	6.0	10	7.5
HK, HWK	35.0	2.0	10.5

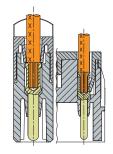
CRIMP TERMINAL

HD series HDD series



Inserts	Max. wire gauge		Stripping length	
mserts		mm²	AWG	L (mm)
	HD	0.5	20	8.0
	HDD	0.75	18	8.0
	HMN(10A)	1.0	18	8.0
	HQ(10A)	1.5	16	8.0
	HK(10A)	2.5	14	6.2

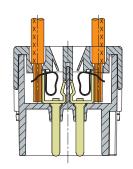
HAC, HEC series HEEE, HEE series HMN(16A/40A) series HQ(16A/40A) series HK(16A/40A) series



Inserts	Max. wii	e gauge	Stripping length L (mm)		
mocres	mm²	AWG	16A	40A	
	0.5	20	7.5	-	
HAC HEC HEE/HEEE HMN(16A/40A) HQ(16A/40A) HK(16A/40A)	0.75	18	7.5	-	
	1.0	18	7.5	9.2	
	1.5	16	7.5	9.2	
	2.5	14	7.5	9.2	
	4.0	12	7.5	9.2	
	6.0	10	-	9.2	

SPRING TERMINAL

HAS series HES series HESAV series



Inserts	Max. wire gauge		Stripping length
mserts	mm²	AWG	L (mm)
HAS, HES, HESAV	2.5	14	9-11

RECOMMENDED TIGHTENING TORQUE AND SIZE OF SCREW DRIVER

Size of screw	Connector type	Tightening torque [Nm]	Tightening torque [lbft]	Recommended size of screwdriver
M3	Screw terminal HA-003/HA-004/HQ-005	0.25	0.20	0.4x2.5
M3	Screw terminal HA-010, HA-016	0.50	0.40	0.5x3.5 or ±size 1
M3	HE, HVAE Screw terminal HE, HVAE fixing screws of all kinds, guiding pins and bushes	0.50	0.40	0.5x3.5
M4	Ground terminal HA, HE, HD, HDD	1.20	0.90	0.5x3.5 or ±size 1+2
M4	Terminal blocks HSB	1.20	0.90	0.8x4.5
M5	Ground terminal HSB	2.00	1.40	0.8x4.5/1.2x8.0



Notes	

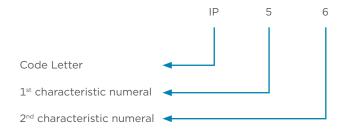


Degree of protection provided by enclosures

For safety reasons, electrical equipment needs to be protected against outside influences. The basis for the determination is the standard IEC 529 titled 'Degree of protection provided by enclosures (IP-Code)'.

Using a standardized test procedure the extent of the protection class is verified. To classify different housings according to their protection class, a designation system is used which consists of the code – letters 'IP' and two code numbers.

ARRANGEMENT OF THE IP-CODE (INTERNATIONAL/INGRESS PROTECTION)



MEANING OF THE 1ST CHARACTERISTIC NUMERAL

The first numeral describes the protection of the housing against intrusion of foreign bodies as well as the protection of people against dangerous parts or influences. Because of this, there are two descriptions and definitions for each of the first code letter.

1 st numeral	Protection against solid objects and against a	ccess to hazardous parts
	short description	definition
0	No protection	
1	protection against solid foreign bodies of Ø 50mm	A sphere of Ø 50mm, must not intrude
	 protection against access to hazardous parts with the back of a hand 	A spriere of 9 30mm, must not intrude
2	• protection against solid foreign bodies of Ø 12mm	A sphere of Ø 12mm diameter, must not intrude
	protection against access to hazardous parts with the finger	A spriere of Ø 12mm diameter, must not intrude
_	protection against solid foreign bodies of 2.5mm diameter and bigger	A sphere of Ø 2.5mm diameter, must not intrude
3	protection against access to hazardous parts with a tool	A spriere of \$\omega\$ 2.3mm diameter, must not intrude
4	protection against solid foreign bodies of 1.0mm diameter and bigger	The grade appears of Ø 1 Opens grade get introde
	protection against access to hazardous parts with a wire	The probe, sphere of Ø 1.0mm, must not intrude
5	Protected against dust	The infiltration of dust is not completely prevented, but it does not infiltrate to such an extent that the operation or the safety of the device is affected
6	Dust proof	No infiltration of dust



MEANING OF THE 2ND CHARACTERISTIC NUMERAL

The second numeral describes the protection of the housing against the intrusion of water with harmful effects.

2 nd numeral Protection degrees against the intrusion of water, designated by the second code digit				
	short description	definition		
0	Not protected	-		
1	Protected against dripping water	Vertically falling drops shall have not harmful effects		
2	Protected against dripping water when the housing is at an angle of up to 15°	Vertically falling drops shall have not harmful effects when the enclosure is tiled up to 15°		
3	Protected against water spray	Water sprayed at an angle up to 60°, shall have no harmful effects		
4	Protected against splash water	Water splashed against the enclosure from any direction, shall have no harmful effects		
4K	Protected against splash water with increased pressure	Water splashed against the enclosure with increased pressure from any direction, shall have no harmful effects (Applies acc. to DIN 40050-9 only for road vehicles)		
5	Protected against jets of water	Water splashes against the enclosure from any direction as a water jet, shall have no harmful effects		
6	Protected against strong jets of water	Water splashes against the enclosure from any direction as a strong water jet, shall have no harmful effects		
6K	Protected against strong jets of water with increased pressure	Water splashes directly against the enclosure from any direction as a strong water jet with increased pressure, shall have no harmful effects (Applies acc. to DIN 40050-9 only for road vehicles)		
7	Protection against the effects of temporary submersion in water	Quantity of water that ingresses an enclosure, when it is temporarily immersed under standardized conditions of pressure and time, shall have no harmful effects		
8	Protection against the effects of continuous submersion in water	Quantity of water that ingresses an enclosure, when it is continuously immersed under conditions of pressure and time, shall have no harmful effects. The conditions must, however be harder than for code digit 7 and agreed between user and producer		
9K	Protected against water during high- pressure / jet-stream cleaning	Water that is directed against the housing with greatly increased pressure from any direction must not have any detrimental effect (Applies acc. to DIN 40050-9 only for road vehicles)		



Standards

SPECIFICATIONS

TE connectors are still made on IEC 664/664 A, DIN VDE 0110/01.89 and DIN VDE 0627/06.86 standards. The standards have defined normal rules and requirements which include features construction and requirements.

To determine the minimum clearances and creepage distance, the recent applicable standard is the IEC 60664-1 standard (10.92), a fundamental safety standard to which all product in the committees should refer.

If no notice to products in the cataloge, clearance and creepage distances of all products in the cataloge are based on DIN VDE 0110:1989-01 and degrees pollution 3.

Include some contents:

- 1. Over-voltage categories (I, II, III, IV)
- 2. Degrees of pollution
- 3. Insulating material
- 4. Determination of clearances

OVER-VOLTAGE CATEGORIES

1. Over-voltage category I

Equipment in over-voltage category I is only intended for use in apparatus or parts of systems in which no over-voltages will occur or are specially protected against over-voltages by means of surge voltages, filters or capacitors.

2. Over-voltage category II

Equipment in over-voltage category II is intended for use in systems or parts there of in which lighting over-voltages do not have to be taken into account.

3. Over-voltage category III

Equipment in over-voltage category III is intended for use in equipment for fixed installation, i.e. protective devices, relays, switches and plug devices.



Insulation Coordination for Electrical Connectors in Low Voltage Plants

Dimensioning of Clearance and Creeping Distances acc. to DIN EN60664-1; following pages show only a part of the standards.

INSULATION COORDINATION

Insulation coordination includes the design of the electrical insulation of a connector depending on its use and environment. This occurs either by design of the clearance distances (basis is the expected power surge) or by design of the creeping distance (basis is the operating voltage as well as the quality of the insulating material). Furthermore, insulation-changing conditions are taken into account (pollution, protective measures against pollution, air pressure, thermal or chemical influences).

Air distances are measured according to the outer or inner power surge expected. The four power surge classes (power surge categories I to IV) take the different use of the connector into account. Depending on the homogeneity of the field between the electrodes (case A – inhomogeneous field, case B – homogeneous field) the air distances can be determined according to table 2a (minimum air distances); industrial connectors are always determined according to case A.

The influence from pollution when determining the air- and creeping distances is taken into account by using four degrees of severity (pollution degree 1 to 4).

Basis of the creeping distances is the rated voltage which is deduced from the operating voltage. The minimum creeping distances are allocated in table 4 depending on the severity of pollution. If the product descriptions do not contain any additional information the products listed in this catalogue were rated according tonorm DIN VDE 0110 for surge category III and severity of pollution 3.

SURGE CATEGORY I TO IV

- Resources of surge category I are goods for the termination of fixed electrical installations of a building. Measures for the limitation of transient surges were taken either in the fixed installation or between the fixed installation and the equipment.
- Resources of surge category II are resources which use power and are fed from a fixed installation. Note: e.g. domestic appliances, portable tools and other appliances as well as similar consumers.
- Resources of surge category III are part of a fixed installation. They are resources from which a high degree of availability is expected. Note: Examples for such appliances are e.g. industrial connectors, distribution panels, power switches, distributors, switches, sockets.
- Devices of surge category IV are for use at the supply terminal of the installation. Note: Examples for such appliances are electricity counters, overload cut-out switches.

POLLUTION DEGREE 1 TO 4

DIN VDE 0110 defines the pollution degrees as follows:

Pollution Degree 1:

There is no or only dry, non-conductive pollution. The pollution is without influence.

Pollution Degree 2:

There is only non-conductive pollution. Occasional momentary conductivity due to condensation.

Pollution Degree 3:

There is conductive pollution or dry non-conductive pollution, which becomes conductive due to condensation.

Pollution Degree 4:

There is a continuous conductivity due to conductive dust, rain or moisture.

Insulation Material

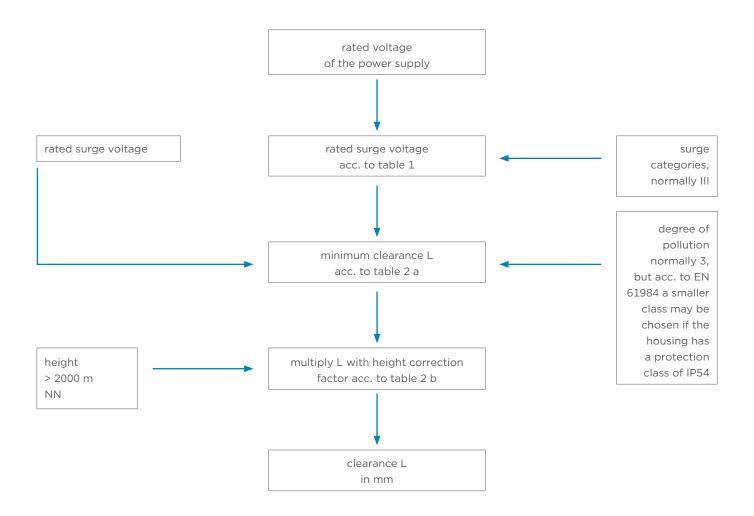
The insulation materials are divided into the following four groups depending on their comparative tracking index (CTI):

Insulation material I:	600 ≤ CTI
Insulation material II:	400 ≤ CTI < 600
Insulation material III a:	175 ≤ CTI < 400



Measurement of Clearances

DIAGRAM FOR THE DETERMINATION OF CLEARANCES



RATED SURGE VOLTAGE FOR UTILITIES

Rated voltage of the power supply* in V		Rated Surge Voltage in kV (1.2/50ms) for					
3-phase systems	single systems in the centre	utilities at the feed of the installation (surge category IV)	utilities as part of a fixed installation (surge category III)	utilities for connection to fixed installations (surge category II)	Specially protected utilities (surge category I)		
	120 up to 240	4	2.5	1.5	0.8		
230/400** 277/480**		6	4	2.5	1.5		
400/690**		8	6	4	2.5		
1000		12	8	6	4		



^{*)} chosen voltage values
**) the / dash is for a 3-phase system with 4 lines. The lower value is for phase to neutral, the higher value is for phase to phase

MINIMUM CLEARANCE IN AIR AT INSTALLATION HEIGHTS OF UP TO 2000 M ABOVE SEA LEVEL (NN)

"rated surge	case A, inhomogenous field, degree of pollution				case B, homogenous field, degree of pollution			
voltage [kV]"	1 (mm)	2 (mm)	3 (mm)	4 (mm)	1 (mm)	2 (mm)	3 (mm)	4 (mm)
0.33 _)	0.01	_)			0.01	_)		
0.40	0.02				0.02			
0.5 _)	0.04				0.04			
0.60	0.06				0.06			
0.80 _)	0.10	0.2	0.80		0.10	0.2	0.8	
1.0	0.15			1.6	0.15			1.6
1.2	0.25	0.25			0.2			
1.5 _)	0.5	0.5			0.3	0.3		
2.0	1.0	1.0	1.0		0.45	0.5		
2.5 _)	1.5	1.5	1.5		0.6	0.6		
3.0	2	2	2	2	0.8	0.8		
4.0 _)	3	3	3	3	1.2	1.2	1.2	
5.0	4	4	4	4	1.5	1.5	1.5	
6.0 _)	5.5	5.5	5.5	5.5	2	2	2	2
8.0 _)	8	8	8	8	3	3	3	3
10	11	11	11	11	3.5	3.5	3.5	3.5
12 _)	14	14	14	14	4.5	4.5	4.5	4.5
15	18	18	18	18	5.5	5.5	5.5	5.5
20	25	25	25	25	8	8	8	8
25	33	33	33	33	10	10	10	10
30	40	40	40	40	12.5	12.5	12.5	12.5
40	60	60	60	60	17	17	17	17
50	75	75	75	75	22	22	22	22
60	90	90	90	90	27	27	27	27
80	130	130	130	130	35	35	35	35
100	170	170	170	170	45	45	45	45

1) This voltage is

- for functional insulation: the maximum impulse voltage expected to occur across the clearance
- for basic insulation directly exposed by transient overvoltages
- for other basic insulation
- _) Preferred values

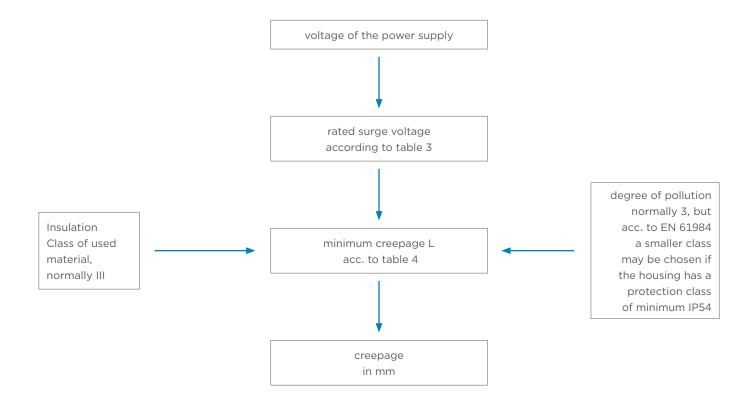
FACTORS FOR HEIGHT CORRECTION

height in m	normal air pressure in kPa	multiplication factor for distances
2000	80.0	1.00
3000	70.0	1.14
4000	62.0	1.29
5000	54.0	1.48
6000	47.0	1.70
7000	41.0	1.95
8000	35.5	2.25
9000	30.5	2.62
10000	26.5	3.02
15000	12.0	6.67
20000	5.5	14.50



Measurement of creepage

DIAGRAM FOR THE DETERMINATION OF CREEPAGE



voltage of the power supply [V]	rated voltage [V]
60	63
110/120/127	125
150	160
208	200
220/230/240	250
300	320
380/400/415	400
440	500
480/500	500
575	630
600	630
660/690	630
720/830	800
960	1000
1000	1000

Table 3

*the above shown table does not give the entire correlation of world-wide used networks and rated voltages; it is reduced to the most common ones; further details, see DIN EN60664-1

CREEPAGES IN [MM] FOR ELECTRICAL EQUIPMENTS

rated	degree of pollution										
voltage	1 All Insulator	2 Insulat	ion Class		3 Insula	3 Insulation Class			4 Insulation Class		
[V]	Classes	1	П	Ш	ı	П	Ш	1	П	Ш	
10	0.08	0.40	0.40	0.40	1.00	1.00	1.00	1.6	1.6	1.6	
12.5	0.09	0.42	0.42	0.42	1.05	1.05	1.05	1.6	1.6	1.6	
16	0.10	0.45	0.45	0.45	1.10	1.10	1.10	1.6	1.6	1.6	
20	0.110	0.48	0.48	0.48	1.20	1.20	1.20	1.6	1.6	1.6	
25	0.125	0.50	0.50	0.50	1.25	1.25	1.25	1.7	1.7	1.7	
32	0.140	0.53	0.53	0.53	1.30	1.30	1.30	1.8	1.8	1.8	
40	0.16	0.56	0.80	1.10	1.4	1.6	1.8	1.9	2.4	3.0	
50	0.18	0.60	0.85	1.20	1.5	1.7	1.9	2.0	2.5	3.2	
63	0.20	0.63	0.90	1.25	1.6	1.8	2.0	2.1	2.6	3.4	
80	0.22	0.67	0.95	1.3	1.7	1.9	2.1	2.2	2.8	3.6	
100	0.25	0.71	1.00	1.4	1.8	2.0	2.2	2.4	3.0	3.8	
125	0.28	0.75	1.05	1.5	1.9	2.1	2.4	2.5	3.2	4.0	
160	0.32	0.80	1.1	1.6	2.0	2.2	2.5	3.2	4.0	5.0	
200	0.42	1.00	1.4	2.0	2.5	2.8	3.2	4.0	5.0	6.3	
250	0.56	1.25	1.8	2.5	3.2	3.6	4.0	5.0	6.3	8.0	
320	0.75	1.60	2.2	3.2	4.0	4.5	5.0	6.3	8.0	10.0	
400	1.00	2.00	2.8	4.0	5.0	5.6	6.3	8.0	10.0	12.5	
500	1.30	2.50	3.6	5.0	6.3	7.1	8.0	10.0	12.5	16.0	
630	1.8	3.2	4.5	6.3	8.0	9	10.0	12.5	16	20	
800	2.4	4.0	5.6	8.0	10.0	11	12.5	16.0	20	25	
1000	3.2	5.0	7.1	10.0	12.5	14	16.0	20.0	25	32	

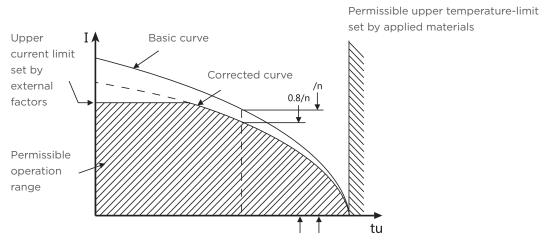
Table 4



Standards

CURRENT CARRYING CAPACITY

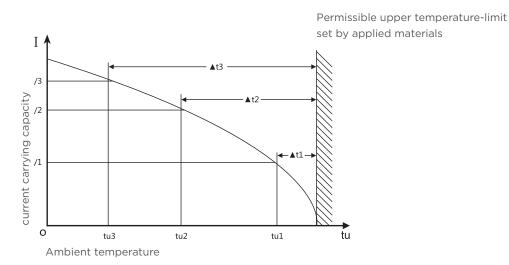
The current carrying capacity is determined in tests which are conducted on the basis of the DIN IEC 60 512 part 3. The current carrying capacity is limited by the thermal properties of materials which are used for inserts as well as by the insulating materials. These components have a maximum temperature which should not be exceeded.



Example of a current capacity curve

The relationship between the current, the temperature rise (loss at the contact resistance) and the ambient temperature of the connector is represented by a curve. On a linear coordinate system the current lies on the vertical line (ordinate) and the ambient temperature on the horizontal line (abscissa) which ends at the permissible upper-limit temperature.

In another measurement the self-heating (Δt) at different currents is determined. The corrected current carrying capacity curve is derived from this basic curve. The reasons for the correction are external factors that bring an additional limitation to the current carrying capacity, i.e. connectable wire gauge or an unequal dispersion of current. In practice it is not usual to load all terminals simultaneously with the maximum current. In such a case one contact can be loaded with a higher current as permitted by the current capacity curve, if less than 20% of the whole is loaded.





Standards

TIGHTENING TORQUE OF TERMINAL BLOCK SCREWS

IEC 60 947-1:1996/EN 60 947-1:1977 modified, table 4 specifies tightening torques for screw connections based on the type and size of the screw for electrical and mechanical type tests. Tightening contact terminal block to this torque guarantees that the connected conductors are reliably connected. The technical product data given in this catalog differ from this value. However they indicate a practical range of tightening torques which provides a gas-tightening contact and offers long-term contact stability.

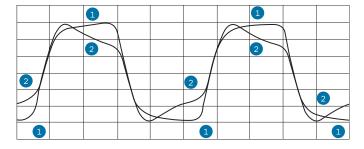
Extract from IEC 60 947-1/EN 60 947, Table 4

The torque according to IEC, EN

Head screw with slot						
There and There	Recommended tighter	ning torque				
Thread Type	Torque [Nm]	CuZn or CuSN screw [Nm]	Steel screw [Nm]			
M2.5	0.4	0.6	0.8			
M3	0.5	0.8	1.0			
M3.5	0.8	1.2	-			
M4	1.2	1.8	2.0			
M5	2.0	3.0	4.5			
M6	2.5	4.0	8.0			

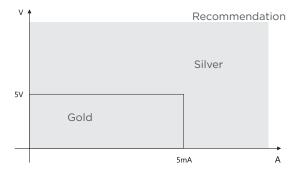
LOW CURRENTS AND VOLTAGES

Standard contacts have a silver plated surface. This precious metal has excellent conductive properties. In the course of a contact's lifetime, the silver surface generates a black oxide layer due to its affinity to sulphur. This layer is smooth and very thin and is partly interrupted. When the contacts are mated and unmated, thus guaranteeing very a low contact resistances. In the case of very low currents or voltages small changes to the transmitted signal may be encountered. This is illustrated below where an artifically aged contact representing a twenty year life is compared with a new contact.



- 1 New contact
- 2 After ageing

Changes to the transmitted signal after artifical ageing



Left is a table derived from actual experiences



Selection guide

TECHNICAL INFORMATION OF INSERTS

Insert	Туре	Poles	Current	Voltage	Terminal	Contacts	Shells
	HA-003	3+PE	10A	250 V	screw	-	НЗА
	HA-004	4+PE	10A	250V	screw	-	НЗА
	HA-010	10+PE	16A	250V			H10A
НА	HA-016	16+PE	16A	250V	screw crimp	CEM/F(16A) DEM/F(16A)	H16A
	HA-032	32+PE	16A	250V	Crimp	DENT (10A)	H32A
	HAS-003	003+PE	10A	400V	spring	-	НЗА
	HAS-004	004+PE	10A	400V	spring	-	НЗА
	HD-007	7+PE	10A	250V			НЗА
	HD-008	8	10A	50V			НЗА
	HD-015	15+PE	10A	250V			H10A
	HD-025	25+PE	10A	250V		CDM/F(10A)	H16A
HD	HD-040	40+PE	10A	250V	crimp	DDM/F(10A)	H16B
	HD-050	50+PE	10A	250V		CJM/F(10A)	H32A
	HD-064	64+PE	10A	250V			H24B
	HD-080	80+PE	10A	250V			H32B
	HD-128	128+PE	10A	250V			H48B
	HDD-016	16+PE	10A	250V		CDM/F(10A) DDM/F(10A) CJM/F(10A)	Н6В
	HDD-024	24+PE	10A	250V			Н6В
	HDD-042	42+PE	10A	250V			H10B
HDD	HDD-072	72+PE	10A	250V	crimp		H16B
	HDD-108	108+PE	10A	250V			H24B
	HDD-144	144+PE	10A	250V			H32B
	HDD-216	216+PE	10A	250V			H48B
	HE-006	6+PE	16A	500V			Н6В
	HE-010	10+PE	16A	500V	screw		H10B
ПЕ	HE-016	16+PE	16A	500V	crimp	CEM/F(16A)	H16B
HE	HE-024	24+PE	16A	500V	spring double	DEM/F(16A)	H24B
	HE-032	32+PE	16A	500V	spring		H32B
	HE-048	48+PE	16A	500V			H48B
	HEE-010	10+PE	16A	500V			Н6В
	HEE-018	18+PE	16A	500V			H10B
	HEE-032	32+PE	16A	500V		CEM/F(16A)	
HEE	HEE-046	46+PE	16A	500V	crimp	DEM/F(16A)	H24B
	HEE-064	64+PE	16A	500V			H32B
	HEE-092	92+PE	16A	500V			H48B
	HEE-015	14+PE	16A	200V		CSF(16A)	-



Selection guide

TECHNICAL INFORMATION OF INSERTS

Insert	Туре	Poles	Current	Voltage	Terminal	Contacts	Shells
	HEEE-020	20+PE	16A	400V		Н6В	
	HEEE-032	32+PE	16A	400V			H10B
	HEEE-040	40+PE	16A	500V			H16B
	HEEE-048	48+PE	16A	400V			H16B
	HEEE-064	64+PE	16A	500V] .	CEM/F(16A)	H24B
HEEE	HEEE-072	72+PE	16A	400V	crimp	DEM/F(16A)	H24B
	HEEE-080	80+PE	16A	500V			H32B
	HEEE-096	96+PE	16A	400V			H32B
	HEEE-128	128+PE	16A	500V			H48B
	HEEE-144	144+PE	16A	400V			H48B
	HVE-003	3+PE+2	16A	830V	screw		H10B
HVE	HVE-006	6+PE+2	16A	830V	crimp	CEM/F(16A) DEM/F(16A)	H16B
	HVE-010	10+PE+2	16A	830V	spring		H24B
LICD	HSB-006	6+PE	35A	400/690V	screw	-	H16B
HSB	HSB-012	12+PE	35A	400/690V	screw	-	H32B
	HQ-005	5+PE	16A	400V		CEM/F(16A) DEM/F(16A)	НЗА
HQ	HQ-007	7+PE	10A	400V		CDM/F(10A) DDM/F(10A)	НЗА
	HQ-008	8+PE	16A	500V	- crimp	CEM/F(16A) DEM/F(16A)	Н8А
110	HQ-012	12+PE	10A	400V	Cinip	CDM/F(10A)	НЗА
	HQ-017	17+PE	10A	250V		DDM/F(10A)	Н8А
	HQ4/2	4+PE+2	40A+10A	600V+250V		CDM/F(10A) DDM/F(10A) CMM/F(40A) DMM/F(40A)	Н8А
	HEAV-006	6+PE	16A	500V		-	Н6В
	HEAV-010	10+PE	16A	500V	screw	-	H10B
HEAV	HEAV-016	16+PE	16A	500V	spring	-	H16B
	HEAV-024	24+PE	16A	500V		-	H24B
	HMN-001	1	200A	1000V	crimp	CHM/F(200A)	-
	HMN-D2	2	100A	1000V	crimp	CNM/F(100A)	-
	HMN-002	2	70A	1000V	crimp	CSM/F(70A)	-
	HMN-003	3	40A	690V	crimp	CMM/F(40A) DMM/F(40A)	-
HMN	HMN-004	4	40A	830V	crimp	CMM/F(40A) DMM/F(40A)	-
	HMN-004SC	4	-	-	-	-	-
	HMN-005	5	16A	400V	spring	-	-
	HMN-006	6	16A	500V	crimp	CEM/E(16A)	_
	HMN-006P	6	16A	830V	crimp	DEM /F(16A)	



Selection guide

TECHNICAL INFORMATION OF INSERTS

Insert	Туре	Poles	Current	Voltage	Terminal	Contacts	Shells	
	HMN-008	8	16A	400V	crimp	CEM/F(16A) DEM/F(16A)	-	
	HMN-012	12	10A	250V	crimp	CDM/F(10A) DDM/F(10A)	-	
	HMN-017	17	10A	160V	crimp	CDM/F(10A) DDM/F(10A)	-	
	HMN-020	20	16A	500V	crimp	CEM/F(16A) DEM/F(16A)	-	
	HMN-025	25	5A	50V	crimp	CAM/F(5A) DAM/F(5A)	-	
	HMN-009	9	5A	50V	crimp	CAM/F(5A) DAM/F(5A)	-	
	HMN-RJ45	8	1A	50V	crimp	-	-	
HMN	HMN-Q1	1+1	16A	50V	crimp	CEM/F(16A) DEM/F(16A)	-	
	HMN-Q2	4+4	10A	50V	crimp	CDM/F(10A) DDM/F(10A)	-	
	HMN-Q3	8+8	5A	50V	crimp	CAM/F(5A) DAM/F(5A)	-	
	PIN-Q1	1	16A	50V	crimp	CEM/F(16A) DEM/F(16A)	-	
	PIN-Q2	4	10A	50V	crimp	CDM/F(10A) DDM/F(10A	-	
	PIN-Q3	8	5A	50V	crimp	CAM/F(5A) DAM/F(5A)	-	
	HMN-DM	-	-	-	-	-	-	
	HK4/0	4+PE	80A	690V	screw	-	H16B	
	HK4/2	4+PE+2	80A+16A	690V+400V	screw	-	H16B	
	HK6/12	6+PE+12	40A+10A	690V+230/400V	screw	-	H16B	
	HK12/2	12+PE+2	40A+10A	690V+250V	crimp	CMM/F(40A) DMM/F(40A) CDM/F(10A) DDM/F(10A)	H16B	
HK/ HWK	HK6/36	6+PE+36	40A+10A	690V+160V	crimp	CMM/F(40A) DMM/F(40A) CDM/F(10A) DDM/F(10A)	H16B	
	HK4/8	4+PE+8	80A+16A	400V	screw	-	H24B	
	HK8/24	8+PE+24	16A+10A	230/400V+160V	crimp	CEM/F(16A) DEM/F(16A) CDM/F(10A) DDM/F(10A)	H10B	
	HWK6/6	6+PE+6	40A+16A	690V+400V	screw	-	H16B	
	HWK3/3/6	3+PE+3+6	100A+40A+16A	400/690V+400/ 690V+250/400V	screw	-	H24B	



HA Series



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

2. StandardsDIN EN 60664-1DIN EN 61 984

3. Approvals





HD technical characteristics

Specifications	DIN VDE 0627
	DIN VDE 0110
Standards	DIN 43 652
	CECC 75 301-801
Number of contacts	
	80(2×40).128(2×64) + PF

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

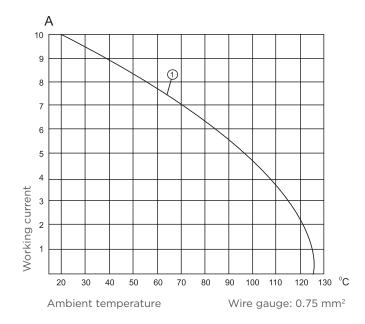
Working current	10A max
(See current carrying capacity)	
Working voltage	(8D is 50V)
	250V, Insulation group C
Test voltage urms	4KV(8D is 0.8KV)
Pollution degree	3
Pollution degree 2 also 10A; 25	0V/400V
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate or Polybutylece
Temperature range	40°C +100°C/125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CS.	A600V
Mechanical working life-mating	cycles≥500

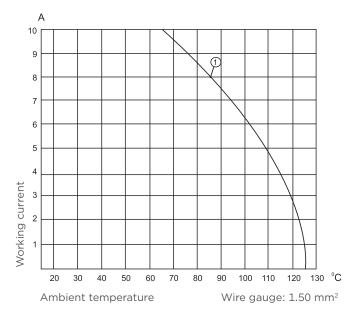
CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤3mΩ
Terminal	Crimp terminal
	Rolled terminal
- mm²	0.15-2.5mm²
- AWG	26-14

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	-40°C +125°C
Degree of protection acc. to D	DIN40 050IP65





1 HD-007



HD-007/008 inserts

INSERTS FOR H3A HOOD/HOUSING

250V/50V 10A

7+⊕ 8

Dimensions (mm) Contact arrangement view		Part Number	Туре	
	from termination side	Male insert	Female insert	
250V/10A	M (21.0)	T 2 02 007 2101-000		HD-007-M
3	F 21.0 ***		T 2 02 007 2201-000	HD-007-F
50V/10A	M	T 2 02 008 2101-000		HD-008-M
	F 210		T 2 02 008 2201-000	HD-008-F

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	Crimp con	tacts, silver-plated	Crimp con	tacts, gold-plated
Contact resistance: ≤3mΩ	3 2.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000



HA technical characteristics

INSERTS

Working current	
HA-3, HA-4	4
HA-10, HA-16, HA-32	4
Working voltage	
HA-3, HA-4250V/400V	/
HA-10, HA-16, HA-32250V	/
Test voltage urms	
HA-003, HAS-004, HA-10, HA-16, HA-324KV	/
HAS-0036KV	/
HA-004	/
Pollution degree	2
Insulation resistance≥10 ¹⁰ Ω	2
MaterialPolycarbonate or Polybutylece	5
Temperature range40°C +100°C/125°C)
Flammability acc. to UL94V0)
Working voltage acc. to UL/CSA600V	/
Mechanical working life-mating cycles≥500)

CONTACTS

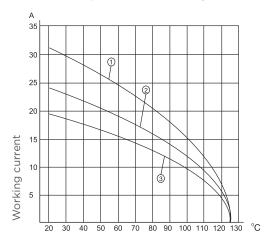
Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-xplated
Contact resistance	≤1mΩ
Terminal	Screw terminal
	Crimp terminal
	Spring terminal
- mm ² 0.5-2.5mm ²	² /0.14-4.0mm ² /0.5-2.5mm ²
- AWG	20-14/26-14/20-14
- Tightening/test torque 0.5Nr	m: HA-010, HA-016, HA-032
	0.25Nm: HA-003, HA-004

HOODS, HOUSINGS

Material	Die cast zinc
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +100°C/125°C
Degree of protection acc. to	DIN40 050IP65

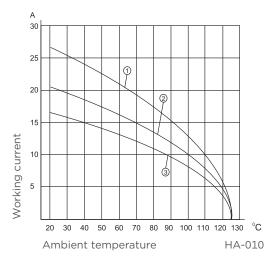
CURRENT CARRYING CAPACITY

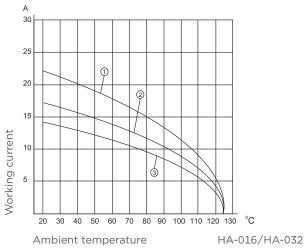
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.



Ambient temperature

HA-003/HA-004





1 Wire gauge: 2.5mm²

2 Wire gauge: 1.5mm²

3 Wire gauge: 1.0mm²



HA-003/004 inserts

INSERTS FOR H3A HOOD/HOUSING

250V/400V 10A

3+⊕

	_
4+	

Dimensions (mm) Contact arrangement view from termination side		Part Number	Part Number		
		Male insert	Female insert		
Screw terminal					
250V/10A	M 5 3 • 2	T 2 01 003 2101-000		HA-003-M	
	F 21.0		T 2 01 003 2201-000	HA-003-F	
Spring terminal					
400V/10A	M ≈ 31.6 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 2 01 003 3101-000		HA-003-MS	
PI	F N 31.6		T 2 01 003 3201-000	HA-003-FS	
Screw terminal					
250V/10A	M ⊗ 0 0 2 4 • • • • 1	T 2 01 004 2101-000		HA-004-M	
	F \(\frac{4 \cdot \cdot 1}{3 \cdot \cdot 2} \)		T 2 01 004 2201-000	HA-004-F	
Spring terminal					
400V/10A	M 2 31.8 10.6 4 2 6.3	T 2 01 004 3101-000		HA-004-MS	
P	F 21.0		T 2 01 004 3201-000	HA-004-FS	



HQ technical characteristics

Specifications DIN EN 60 664-1 DIN EN 61 984

CURRENT CARRYING CAPACITY

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

INSERTS

Working current	
HQ-005,008	16A max
HQ-007,012,017	10A max
Working voltage	
HQ-005,007,012	400V
HQ-008	500V
HQ-017	250V
Test voltage urms	
HQ-005,017	4KV
HQ-007,008,012	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	
Temperature range	-40°C +100°C/125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

CONTACTS

Material	
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤1mΩ
Terminal	Crimp terminal
- mm ²	0.14-4.0/0.14-2.5/1.5-6mm ²
- AWG	26-12/26-14/16-10
- Tightening/test torque	0.25Nm

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc. to D	DIN40 050IP65



HQ-007/012 inserts

INSERTS FOR H3A HOOD/HOUSING

400V MAX. 10A

7+ 🖶

12+ 🖶

Dimensions (mm)		Contact arrangement view	Part Number	Туре	
		from termination side	Male insert		
Crimp terminal (O	rder crimp cor	ntacts separately)		_	
		M 2 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	T 2 08 007 2101-000		HQ-007-M
		F (2) 21.69		T 2 08 007 2201-000	HQ-007-F
		M 221	T 2 08 012 2101-000		HQ-012-M
		F 3 21		T 2 08 012 2201-000	HQ-012-F

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	ping			Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	3 200	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5	26-22 20 18 18	8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000		
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0	26-22 20 18 18	8.0 8.0 8.0 8.0 8.0	CDM-2.5 CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5	T 2 02 000 1025-000 T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000	DDM-2.5 DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5	T 2 02 001 1025-000 T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2010-000 T 2 02 001 2015-000		
		2.5	14	6.0	CDF-1.5 CDF-2.5	T 2 02 000 2015-000	DDF-1.5 DDF-2.5	T 2 02 001 2015-00		



HQ-005 inserts

INSERTS FOR H3A HOOD/HOUSING

400V MAX. 16A

5+⊕

Dimensions (mm)	Contact arrangement view	Part Number	Туре	
	from termination side	Male insert	Female insert	
Crimp terminal (Order crimp co	ntacts separately)			
	M & R M M M M M M M M M M M M M M M M M	T 2 08 005 2101-000		HQ-005-M
	F \$\frac{2}{5}\$ F \$\frac{2}{5}\$ \$\frac{1}{5}\$ \$\frac{1}{5}		T 2 08 005 2201-000	HQ-005-F

16A Contact

Tech data Material: copper alloy	16A Male crimp contacts	Wire gauge Strip ping leng			Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	7.50 a 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection		0.14-0.37	26-22 20	7.5 7.5	CEM-0.3 CEM-0.5	T 2 03 000 1002-000	DEM-0.3 DEM-0.5	T 2 03 001 1002-000	
CEM/Male		0.75	18	7.5	CEM-0.75	T 2 03 000 1005-000 T 2 03 000 1008-000	DEM-0.75	T 2 03 001 1005-000 T 2 03 001 1008-000	
		1.0 1.5	18 16	7.5 7.5	CEM-1.0 CEM-1.5	T 2 03 000 1010-000 T 2 03 000 1015-000	DEM-1.0 DEM-1.5	T 2 03 001 1010-000 T 2 03 001 1015-000	
		2.5 4.0	14 12	7.5 7.5	CEM-2.5 CEM-4.0	T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-2.5 DEM-4.0	T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37	26-22 20	7.5 7.5	CEF-0.3 CEF-0.5	T 2 03 000 2002-000 T 2 03 000 2005-000	DEF-0.3 DEF-0.5	T 2 03 001 2002-000 T 2 03 001 2005-000	
The second secon		0.75	18 18	7.5 7.5 7.5	CEF-0.75 CEF-1.0	T 2 03 000 2008-000 T 2 03 000 2010-000	DEF-0.75 DEF-1.0	T 2 03 001 2008-000 T 2 03 001 2010-000	
	220 7.50	1.5	16	7.5	CEF-1.5	T 2 03 000 2015-000	DEF-1.5	T 2 03 001 2015-000	
		2.5 4.0	14 12	7.5 7.5	CEF-2.5 CEF-4.0	T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-2.5 DEF-4.0	T 2 03 001 2025-000 T 2 03 001 2040-000	



H3A metal hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm	1)	Metr.	PG	Туре	Part Number
Top entry					
	FSM (5) (20) (20) (20) (20) (20) (20) (20) (20	M20	PG11	H3A-MTG-PG11 H3A-MTG-M20	T 1 32 903 0111-000 T 1 32 903 0120-000
Side entry					
	26.8 36.5	M20	PG11	H3A-MTS-PG11 H3A-MTS-M20	T 1 31 903 0111-000 T 1 31 903 0120-000
Bulkhead mount	ing: Bottom entry				
	30.0			H3A-MAG	T 1 50 903 0000-000
Bulkhead mount	ing: Side entry	'			
	000			H3A-MAGS	T 1 54 903 0000-000
Surface mountin	g: Side entry				
	9 40.5 40.5	M16 M20	PG11	H3A-MAGSV-PG11 H3A-MAGSV-M16 H3A-MAGSV-M20	T 1 61 903 0111-000 T 1 61 903 0116-000 T 1 61 903 0120-000
Cable-to-cable h	ood:				
		M20	PG11	H3A-MTGVB-PG11 H3A-MTGVB-M20	T 1 73 903 0111-000 T 1 73 903 0120-000
Protection cover	s for hoods (thermoplastic)				
6	Note: For mounted male insert and hood			H3A-KDTP	T 1 01 003 1100-000
Metal protection	covers for hoods	1			
	Note: For mounted female insert and hood			H3A-KDB	T 1 01 003 3100-000



H3A thermoplastic hoods/housings

THERMOPLASTIC HOODS, HOUSINGS

Dimensions (mr	n)	Metr.	PG	Туре	Part Number
Top entry					
	PoM 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	M20	PG11	H3A-TG-PG11 H3A-TG-M20	T 1 32 903 1111-000 T 1 32 903 1120-000
Side entry		l .			
	7 00 00 00 00 00 00 00 00 00 00 00 00 00	M20	PG11	H3A-TS-PG11 H3A-TS-M20	T 1 31 903 1111-000 T 1 31 903 1120-000
Bulkhead mount	ing: Bottom entry				
1.00	30.0			H3A-AG	T 1 50 903 1100-000
Bulkhead mount	ring: Side entry				
10.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			H3A-AGS	T 1 50 903 1111-000
Surface mountin	ng: Side entry				
6.	9 9 9 57.0 57.0	M16 M20	PG11	H3A-AGSV-PG11 H3A-AGSV-M16 H3A-AGSV-M20	T 1 61 903 1111-000 T 1 61 903 1116-000 T 1 61 903 1120-000
Cable-to-cable h	nood:				
6		M20	PG11	H3A-TGVB-PG11 H3A-TGVB-M20	T 1 73 903 1111-000 T 1 73 903 1120-000
Protection cover	rs for hoods (thermoplastic)	1			
6	Note: For mounted male insert and hood			H3A-KDTP	T 1 01 003 1100-000
Protection cover	rs for hoods	1			
White Grey	Note: For mounted female insert and hood			H3A-KDBP (White) H3A-KDBPG (Grey)	T 1 01 003 2100-000 T 1 01 003 2300-000
Covers without	sealing type				
				H3A-KDBP (White) H3A-KDBP (Grey)	T 1 01 003 3200-000 T 1 01 003 2200-000

HIP.3/4, HIP-K.3/4, EMV-K.3/4 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Top entry					
				HIP	
	M/DO		11	HIP.3/4.ST0.1.11.G	1-1102600-5
	M/PG	M16		HIP.3/4.ST0.1.M16.G	0-1106408-1
	+ + + + + + + + + + + + + + + + + + + +			HIP-K	
			11	HIP-K.3/4.ST0.1.11.G	2-1102600-5
- 15	54 M4 <u>x2</u> 2 M3 <u>x8</u>	M16		HIP-K.3/4.ST0.1.M16.G	0-1106408-2
		M20		HIP-K.3/4.ST0.1.M20.G	0-1106408-3
				EMV-K	
	51 32		11	EMV-K.3/4.ST0.1.11.G	4-1102700-5
		M16		EMV-K.3/4.ST0.1.M16.G	0-1106402-2
		M20		EMV-K.3/4.ST0.1.M20.G	0-1106402-3
Surface mounte	d housing: Bottom entry				
				HIP	
	M3x8			HIP.3/4.AG	1-1102603-5
	22 •				
	4,3-11- 1-22-1			HIP-K	0.1100007.5
	41 32			HIP-K.3/4.AG	2-1102603-5
	Panel cut-out 21 x 21			EMV-K	
				EMV-K.3/4.AG	4-1102703-5
Surface mounte	d housing: Bottom entry (by panel cut-ou	t)	_		
				HIP	
	51 — 41 — 41 — 41 — 41 — 41 — 41 — 41 —			HIP.3/4.SGF	1-1102602-5
The second second	M3x8				
	38 48			HIP-K	
	⊕ 4,3 ±			HIP-K.3/4.SGF	2-1102602-5
	Panel cut-out Ø 20			EMV-K	
	Tallet out b 20			EMV-K.3/4.SGF	4-1102702-5



HIP.3/4, HIP-K.3/4, EMV-K.3/4 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Surface mounte	d housing: Side entry	'	'		
				HIP	
			PG11	HIP.3/4.SG.1.11.G	1-1102601-5
		M16		HIP.3/4.SG.1.M16.G	0-1106407-1
	51	M20		HIP.3/4.SG.1.M20.G	0-1106401-4
and put in higher which is	M3x8			HIP-K	
	38 48		PG11	HIP-K.3/4.SG.1.11.G	2-1102601-5
	4,3	M16		HIP-K.3/4.SG.1.M16.G	0-1106407-2
	→ M/PG			EMV-K	
			PG11	EMV-K.3/4.SG.1.11.G	4-1102701-5
		M16		EMV-K.3/4.SG.1.M16.G	0-1106401-2
		M20		EMV-K.3/4.SG.1.M20.G	0-1106401-3
Protective cover	rs for housings	·			
	M4x22			HIP/EMV	
	14			HIP/EMV.3/4.SKB	3-1106200-5
				HIP-K/EMV-K	
	51 32			HIP-K/EMV-K.3/4.SKB	4-1106200-5



HA.10 contact inserts

SCREW TERMINAL, SPRING CLAMP TERMINAL, CRIMP TERMINAL FOR SCREW MACHINED HE/HA CRIMP CONTACTS

250V 16A

10+⊕

Description		Туре	Part Number		
Male insert	Female insert		Male insert	Female insert	
Screw terminal					
Per la		HA-010-M	T 2 01 010 2101-000		
A. Charles	10,0000	HA-010-F		T 2 01 010 2201-000	
Spring Clamp terminal					
		HA.10.Sti.SC.B 1-10	7-1103414-1		
	100000	HA.10.Bu.SC.B 1-10		7-1103415-1	
Crimp terminal				'	
De la companya della companya della companya de la companya della		HA.10.Sti.C.B 1-10	2-1103414-3		
Badas		HA.10.Bu.C.B 1-10		2-1103415-3	

Dimensions	А	В	С	D	Е
mm	49.5	57	23	31	28

Dimensions (mm)	Contact arrangement	Panel cut-out	
	Male insert	Female insert	
Sti	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+ 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	43.5 43.5 49.5



H10A metal hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	63.0	M20 M25	PG16 PG21	H10A-TS-PG16 H10A-TS-PG21 H10A-TS-M20 H10A-TS-M25	T 1 31 910 0116-000 T 1 31 910 0121-000 T 1 31 910 0120-000 T 1 31 910 0125-000
Hood: Top entry					
	PG/M 63.0 29.5	M20 M25	PG16 PG21	H10A-TG-PG16 H10A-TG-PG21 H10A-TG-M20 H10A-TG-M25	T 1 32 910 0116-000 T 1 32 910 0121-000 T 1 32 910 0120-000 T 1 32 910 0125-000
Protection covers f	or hoods				
	63.0 See 1	With plas	tic rope	H10A-KDT	T 1 01 910 1101-000 T 1 01 910 1201-000
Bulkhead mounted					
	70.0 63.6 81.0 53.5 53.5			H10A-AGS H10A-ADMS	T 1 50 910 1000-000 T 1 51 910 1000-000
	With protection cover			H10A-ADMS	T 1 51 910 1000-000
Surface mounted: S	Side entry				
	1 Side entry 2 Side entry Wind Wind	M20 M25 M20 M25	PG16 PG21 PG16 PG21	H10A-SGRS-PG16 H10A-SGRS-PG21 H10A-SGRS-M20 H10A-SGRS-M25 H10A-SGRS-2PG16 H10A-SGRS-2PG21 H10A-SGRS-2M20 H10A-SGRS-2M25	T 1 61 910 1116-000 T 1 61 910 1121-000 T 1 61 910 1120-000 T 1 61 910 1125-000 T 1 61 910 1216-000 T 1 61 910 1221-000 T 1 61 910 1220-000 T 1 61 910 1225-000
	With protection cover	M25	PG16 PG21 PG16 PG21	H10A-SDRMS-PG16 H10A-SDRMS-PG21 H10A-SDRMS-M20 H10A-SDRMS-M25 H10A-SDRMS-2PG16 H10A-SDRMS-2PG21 H10A-SDRMS-2M20 H10A-SDRMS-2M25	T 1 62 910 1116-000 T 1 62 910 1121-000 T 1 62 910 1120-000 T 1 62 910 1125-000 T 1 62 910 1216-000 T 1 62 910 1221-000 T 1 62 910 1220-000 T 1 62 910 1225-000
Cable-to-cable hoc	od				
	Construction H Low 52.6 Hight 66.6	M20 M25 M25	PG16	H10A-TBFS-PG16 H10A-TBFS-M20 H10A-TBFS-M25 H10A-TBFHS-PG21 H10A-TBFHS-M25	T 1 73 910 1116-000 T 1 73 910 1120-000 T 1 73 910 1125-000 T 1 77 910 1121-000 T 1 77 910 1125-000



HA.16 contact inserts

SCREW TERMINAL, SPRING CLAMP TERMINAL, CRIMP TERMINAL FOR SCREW MACHINED HE/HA CRIMP CONTACTS

250V 16A

16+⊕

Description		Туре	Part Number		
Male insert	Female insert		Male insert	Female insert	
Screw terminal					
		HA-016-M	T 2 01 016 2101-000		
	(a) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HA-016-F		T 2 01 016 2201-000	
Spring Clamp terminal					
b and a second	A STATE OF THE STA	HA.16.Sti.SC.B 1-16	7-1103416-1		
	1000000000	HA.16.Bu.SC.B 1-16		7-1103417-1	
Crimp terminal					
6	W	HA-016-MC	T 2 01 016 4101-000		
a Madadada		HA-016-FC		T 2 01 016 4201-000	

Dimensions	А	В	С	D	Е
mm	66	73	23	31	28

Dimensions (mm)	Contact arrangement	Panel cut-out	
	Male insert	Female insert	
Sti	+ 6 0 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+ 1 2 2 8 4 8 6 6 7 8 + - 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1	66 0 1 3 60 60



H16A metal hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number			
Hood: Side entry								
	Low construction High construction	M20 M25	PG16 PG21	H16A-TS-PG16 H16A-TS-PG21 H16A-TS-M20 H16A-TS-M25	T 1 31 916 0116-000 T 1 31 916 0121-000 T 1 31 916 0120-000 T 1 31 916 0125-000			
	79.0 29.5 High construction	M25	PG21	H16A-TSH-PG21 H16A-TSH-M25	T 1 33 916 0121-000 T 1 33 916 0125-000			
Hood: Top entry								
	Low construction High construction	M20 M25	PG16 PG21	H16A-TG-PG16 H16A-TG-PG21 H16A-TG-M20 H16A-TG-M25	T 1 32 916 0116-000 T 1 32 916 0121-000 T 1 32 916 0120-000 T 1 32 916 0125-000			
	79.0 29.5 79.0 29.5 High construction	M25	PG21	H16A-TGH-PG21 H16A-TGH-M25	T 1 34 916 0121-000 T 1 34 916 0125-000			
Protection covers	for hoods							
	79.0	with pl	astic rope	H16A-KDT	T 1 01 916 1101-000 T 1 01 916 1201-000			
Bulkhead mounted	d							
	86.0							
M	86.0 Ø3.5 96.0 53.5 96.0			H16A-AGS	T 1 50 916 1000-000			
	With protection cover			H16A-ADS H16A-ADMS	T 1 51 916 2000-000 T 1 51 916 1000-000			
Surface mounted:	Side entry							
	Vith protection cover	M20 M25 M20 M25	PG16 PG21 PG16 PG21	H16A-SGRS-PG16 H16A-SGRS-PG21 H16A-SGRS-M20 H16A-SGRS-M25 H16A-SGRS-2PG16 H16A-SGRS-2PG21 H16A-SGRS-2M20 H16A-SGRS-2M20	T 1 61 916 1116-000 T 1 61 916 1121-000 T 1 61 916 1120-000 T 1 61 916 1125-000 T 1 61 916 1216-000 T 1 61 916 1221-000 T 1 61 916 1220-000 T 1 61 916 1225-000			
	2 Side entry 2 Side entry 1 Side entry 2 Side entry 1 Side entry 2 Side entry 3 Side entry 2 Side entry 3 Sid	M20 M25 M20 M25	PG16 PG21 PG16 PG21	H16A-SDRMS-PG16 H16A-SDRMS-PG21 H16A-SDRMS-M20 H16A-SDRMS-M25 H16A-SDRMS-2PG16 H16A-SDRMS-2PG21 H16A-SDRMS-2M20 H16A-SDRMS-2M25	T 1 62 916 1116-000 T 1 62 916 1121-000 T 1 62 916 1120-000 T 1 62 916 1125-000 T 1 62 916 1216-000 T 1 62 916 1221-000 T 1 62 916 1220-000 T 1 62 916 1225-000			
Cable-to-cable ho	Cable-to-cable hood							
	Construction H Low 66.6 Hight 80.6	M20 M25 M25	PG16	H16A-TBFS-PG16 H16A-TBFS-M20 H16A-TBFS-M25 H16A-TBFHS-PG21 H16A-TBFHS-M25	T 1 73 916 1116-000 T 1 73 916 1120-000 T 1 73 916 1125-000 T 1 77 916 1121-000 T 1 77 916 1125-000			



HA.32 contact inserts

SCREW TERMINAL, SPRING CLAMP TERMINAL, CRIMP TERMINAL FOR SCREW MACHINED HE/HA CRIMP CONTACT

250V 16A

(2x16) 32+ 🕏

Description		Туре	Part Number		
Male insert	Female insert		Male insert	Female insert	
Screw terminal					
		HA-016-M(1-16) HA-016-M(17-32)	T 2 01 016 2101-000 T 2 01 032 2101-000		
No. of the last of		HA-016-F(1-16) HA-016-F(17-32)		T 2 01 016 2201-000 T 2 01 032 2201-000	
Spring Clamp terminal					
No.		HA.16.Sti.SC.B 1-16 HA.16.Sti.SC.B 17-32	7-1103416-1 7-1103416-7		
N. Control of		HA.16.Bu.SC.B 1-16 HA.16.Bu.SC.B 17-32		7-1103417-1 7-1103417-7	
Crimp terminal					
Acidada		HA-016-MC(1-16) HA-016-MC(17-32)	T 2 01 016 4101-000 T 2 01 032 4101-000		
, danadado		HA-016-FC(1-16) HA-016-FC(17-32)		T 2 01 016 4201-000 T 2 01 032 4201-000	

Dimensions	А	В	С	D	Е
mm	66	73	23	31	28

Dimensions (mm)	Contact arrangement			
	Male insert	Female insert		
Sti	+ + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + +		



H32A metal hoods/housings

Dimensions (mm))	Metr.	PG	Туре	Part Number
Hood: Side entry					
			PG21 PG29	H32A-TS-PG21 H32A-TS-PG29	T 1 31 932 0121-000 T 1 31 932 0129-000
272	78.00 M	M25	PG36	H32A-TS-PG36 H32A-TS-M25	T 1 31 932 0136-000 T 1 31 932 0125-000
		M32		H32A-TS-M32	T 1 31 932 0132-000
LA	82.0 86.0	M40		H32A-TS-M40	T 1 31 932 0140-000
Hood: Top entry					
	PG/M		PG21	H32A-TG-PG21	T 1 32 932 0121-000
			PG29	H32A-TG-PG29	T 1 32 932 0129-000
	<u>==</u>		PG36	H32A-TG-PG36	T 1 32 932 0136-000
至国		M25		H32A-TG-M25	T 1 32 932 0125-000
100	\\	M32		H32A-TG-M32	T 1 32 932 0132-000
		M40		H32A-TG-M40	T 1 32 932 0140-000
Bulkhead mounte	d				
	73.0 92.0 12 102.0 102.0 102.0 73.0 62.5 62.5 62.5 62.5			H32A-AG	T 1 41 932 0000-000
Surface mounted:	Side entry				
	62.5	1 Side entry	PG21 PG29	H32A-SGR-PG21 H32A-SGR-PG29	T 1 44 932 0121-000 T 1 44 932 0129-000
100		M25 M32	DC01	H32A-SGR-M25 H32A-SGR-M32	T 1 44 932 0125-000 T 1 44 932 0132-000
		2 Side e	PG21	H32A-SGR-2PG21	T 1 44 932 0221-000
	94.0 8.0 106.0 8.0	M25	PG29	H32A-SGR-2PG29 H32A-SGR-2M25	T 1 44 932 0229-000 T 1 44 932 0225-000
	57.0	M32		H32A-SGR-2M25	T 1 44 932 0225-000
		1.125		1132A-30K-21132	1 1 44 932 0232-000



HA.48 contact inserts

SCREW TERMINAL, SPRING CLAMP TERMINAL, CRIMP TERMINAL FOR SCREW MACHINED HE/HA CRIMP CONTACT

250V 16A

(3x16) 48+ 🕏

Description		Туре	Part Number	
Male insert	Female insert		Male insert	Female insert
Screw terminal				
d a second	HA.16.Sti.S.B 1-16	1-1103416-1		
Average of the same of the sam	A STATE OF THE STA	HA.16.Sti.S.B 17-32	1-1103416-7	
		HA.16.Sti.S.B 33-48	1-1103416-8	
The state of the s		HA.16.Bu.S.B 1-16		1-1103417-1
The state of the s	10000000	HA.16.Bu.S.B 17-32		1-1103417-7
A 300	Contract of the Contract of th	HA.16.Bu.S.B 33-48		1-1103417-8
Spring Clamp terminal		<u>'</u>		'
	6	HA.16.Sti.SC.B 1-16	7-1103416-1	
	A STATE OF THE PARTY OF THE PAR	HA.16.Sti.SC.B 17-32	7-1103416-7	
	and the state of t	HA.16.Sti.SC.B 33-48	7-1103416-8	
The state of the s	No.	HA.16.Bu.SC.B 1-16		7-1103417-1
Control of the second		HA.16.Bu.SC.B 17-32		7-1103417-7
A. 1111	es and	HA.16.Bu.SC.B 33-48		7-1103417-8
Crimp terminal		1		
9	**	HA.16.Sti.C.B 1-16	2-1103416-3	
1 - 1000 P		HA.16.Sti.C.B 17-32	2-1103416-7	
And a control of the		HA.16.Sti.C.B 33-48	2-1103416-8	
		HA.16.Bu.C.B 1-16		2-1103417-3
	The state of the s	HA.16.Bu.C.B 17-32		2-1103417-7
		HA.16.Bu.C.B 33-48		2-1103417-8

Suitable crimp contacts and crimping tools: see page 48

Α

77.5

В

83.5

С

33

D

34

Ε

35

Dimensions (mm)	Contact arrangement						
	Male insert	Female insert					
Sti B B C C C C C C C C C C C C C C C C C	+ 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	+ - 2 0 4 4 0 0 v 8 + + + + 5 2 2 2 2 2 2 2 4 + + + 6 2 2 2 2 2 2 2 4 + + + 6 2 2 2 2 2 2 2 2 4 + + + 6 2 2 2 2 2 2 2 2 2 2 4 2 4 2 4 2 4 2 4					



Dimensions

 $\mathbf{m}\mathbf{m}$

HA.48 housings

POWDER-COATED, SILVER-GREY

Side clip at housing bottom **IP 65** Description Metr. PG Type **Part Number** Hood: Side entry, Standard construction 29 HA.48.STS-GR.1.29.G 1-1102172-7 M32 HA.48.STS-GR.1.M32.G 0-1102877-1 Hood: Top entry, Standard construction 29 HA.48.STO-GR.1.29.G 1-1102175-7 M32 HA.48.STO-GR.1.M32.G 0-1102877-2 Surface mounted housing: Bottom entry Ø 5.5 HA.48.AG-LB 1-1102176-2 - M5 Panel cut-out Surface mounted housing with covers: Bottom entry HA.48.AGD-LB 1-1102177-2 Panel cut-out



HA.48 housings

POWDER-COATED, SILVER-GREY

Side clip at housing bottom

Description	Metr.	PG	Туре	Part Number		
Surface mounted housing: Side entry, Standard construction						
M/PG 4 112 05.5 1 126 67 33 82.5		29 2x29	HA.48.SG-LB.1.29.Z HA.48.SG-LB.2.29.Z	1-1102179-2 1-1102181-2		
Surface mounted housing: Side entry, Standard construction						
M/PG 112 05.5 1 22 67 33	M32 2xM32	29 2x29	HA.48.SGD-LB.1.29.Z HA.48.SGD-LB.2.29.Z HA.48.SGD-LB.1.M32.G HA.48.SGD-LB.2.M32.G	1-1102183-2 1-1102185-2 0-1102879-1 0-1102879-2		



IP 65

HA.64 contact inserts

SCREW TERMINAL, SPRING CLAMP TERMINAL, CRIMP TERMINAL FOR SCREW MACHINED HE CRIMP CONTACTS

250V 16A

(4x16) 64+ 🛊

Description			Туре		Part Number		
Male insert	Fem	ale insert				Male insert	Female insert
crew terminal						·	
				HA.16.S	ti.S.B 1-16	1-1103416-1	
b and a second				HA.16.S	ti.S.B 17-32	1-1103416-7	
Marine M.	1000	10000		HA.16.S	ti.S.B 33-48	1-1103416-8	
A CONTRACTOR OF		1.000	heten	HA.16.S	ti.S.B 49-64	1-1103416-9	
A CONTRACTOR OF THE PARTY OF TH	e d		40	HA.16.B	u.S.B 1-16		1-1103417-1
A Marie and	\$	The state of	A Section	HA.16.B	u.S.B 17-32		1-1103417-7
	30		*****	HA.16.B	u.S.B 33-48		1-1103417-8
		area .		HA.16.B	u.S.B 49-64		1-1103417-9
Spring Clamp termina	ıl						·
				HA.16.S	ti.SC.B 1-16	7-1103416-1	
	10000	-1-1		HA.16.S	ti.SC.B 17-32	7-1103416-7	
Section 1	N. P. S. S.	n o da da da la		HA.16.S	ti.SC.B 33-48	7-1103416-8	
d Charles of		v. o.	ide.	HA.16.S	ti.SC.B 49-64	7-1103416-9	
	1	HA.16.B	u.SC.B 1-16		7-1103417-1		
Ex . The second of	8		Charles .	HA.16.B	u.SC.B 17-32		7-1103417-7
T. Marie all all		10000	talatala)	HA.16.B	u.SC.B 33-48		7-1103417-8
				HA.16.B	u.SC.B 49-64		7-1103417-9
Crimp terminal							
		- An		HA.16.S	ti.C.B 1-16	2-1103416-3	
W	1 2 2 2 2	- Carlo		HA.16.S	ti.C.B 17-32	2-1103416-7	
Mala la calacia		A STATE OF		HA.16.S	ti.C.B 33-48	2-1103416-8	
Statistical Co.	1	000000	10	HA.16.S	ti.C.B 49-64	2-1103416-9	
M Soldon Do	St. Mil	8	100	HA.16.B	u.C.B 1-16		2-1103417-3
BY STORY		67	- North	HA.16.B	u.C.B 17-32		2-1103417-7
A STATE OF THE STA			HA.16.B	u.C.B 33-48		2-1103417-8	
		4		HA.16.B	u.C.B 49-64		2-1103417-9
Dimensions	А	В	С	D	E		
	77.5	07.5	77	7.4	7.5		
mm	77.5	83.5	33	34	35		

Dimensions (mm)	Contact arrangement					
	Male insert	Female insert				
Sti C C C C C C C C C C C C C C C C C C C	+ + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + +				



HA.64 housings

POWDER-COATED, SILVER-GREY

ide clip at housing	bottom				IP
Description		Metr.	PG	Туре	Part Number
lood: Side entry, St	andard construction	·			
MPG MPG			29	HA.64.STS-GR.1.29.G	1-1102002-7
			36	HA.64.STS-GR.1.36.G	1-1102005-7
岩框			42	HA.64.STS-GR.1.42.G	1-1102008-7
	131 89	M50		HA.64.STS-GR.1.M50.G	0-1106480-2
ood: Top entry, St	andard construction				
	MPG		29	HA.64.STO-GR.1.29.G	1-1102027-7
			36	HA.64.STO-GR.1.36.G	1-1102030-7
ETE			42	HA.64.STO-GR.1.42.G	1-1102033-7
	131 89	M50		HA.64.STO-GR.1.M50.G	0-1106480-1
urface mounted ho	ousing: Bottom entry, Standard constru	ıction			
	148 96.5 25 90 43.5 Panel cut-out			HA.64.AGD-LB	1-1102009-2
urtace mounted ho	ousing: Side entry, Standard construction	on			
			29	HA.64.SGD-LB.1.29.Z	1-1102011-2
	M/PG		2x29	HA.64.SGD-LB.2.29.Z	1-1102013-2
			36	HA.64.SGD-LB.1.36.Z	1-1102015-2
	111 665		2x36	HA.64.SGD-LB.2.36.Z	1-1102017-2
	[]	2xM40		HA.64.SGD-LB.2.M40.Z	0-1106479-1



Crimp contacts HN.D series

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gauge		Strip- ping length	Crimp con	tacts, silver-plated	Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000	
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000	

Crimping tools HN.D series

Description	Туре	Part Number
Crimp tool Wire range: 0.5-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts	CRIMPBOX-0.5/4	T 3 10 000 0001-000
Crimp tool Wire range: 0.14-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts with locator and die	RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CDM/CDF contact series	REMOV-HD	T 3 10 000 0003-000
M3 screw driver Used for HA/HE inserts	SCREWD-M3	T 3 10 000 0009-000



Crimp contacts HE/HA series

16A Contact

Tech data Material: copper alloy	16A Male crimp contacts	Wire gauge		Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp con	tacts, gold-plated
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000

Crimping tools HE/HA series

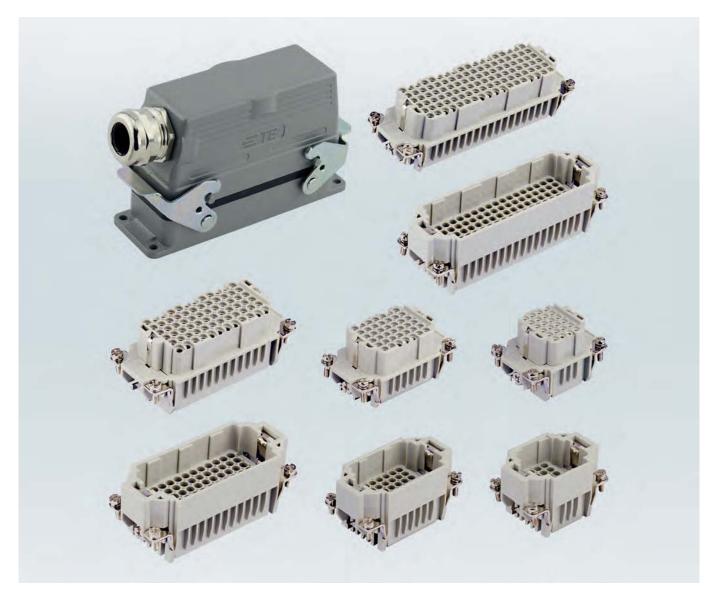
Description	Туре	Part Number
Crimp tool Wire range: 0.5-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts	CRIMPBOX-0.5/4	T 3 10 000 0001-000
Crimp tool Wire range: 0.14-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts with locator and die	RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CEM/CEF contact series	REMOV-HEE	T 3 10 000 0002-000
M3 screw driver Used for HA/HE inserts	SCREWD-M3	T 3 10 000 0009-000



Notes		



HD, HDD Series



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

2. Standards DIN EN 175 301-801 DIN EN 61984

3. Approvals





HD technical characteristics

Specifications	DIN VDE 0627
	DIN VDE 0110
Standards	DIN 43 652
	CECC 75 301-801
Number of contacts	7,8,15,25,40,50(2x25),64,
	80(2x40).128(2x64) + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

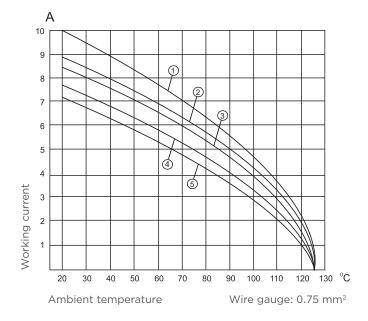
(6)
(See current carrying capacity)
Working voltage(8D is 50V)
250V, Insulation group C
Test voltage urms4KV(8D is 0.8KV)
Pollution degree
Insulation resistance≥10 ¹⁰ Ω
MaterialPolycarbonate or Polybutylece
Temperature range40°C +100°C/125°C
Flammability acc. to UL94V0
Working voltage acc. to UL/CSA600V
Mechanical working life-mating cycles≥500

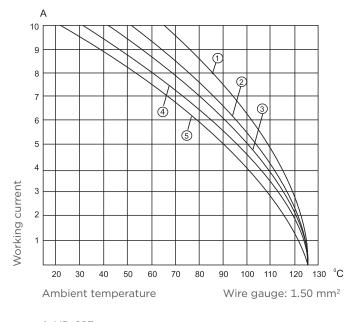
CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤3mΩ
Terminal	Crimp terminal
	Rolled terminal
- mm²	0.15-2.5mm²
- AWG	26-14

HOODS/HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	-40°C +125°C
Degree of protection acc. to [DIN40 050IP65





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



HDD technical characteristics

Specifications	DIN EN 60 664-1
	DIN EN 61 984
Number of contacts	16,24,42,72,84(2x42),
	144(2x72) + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

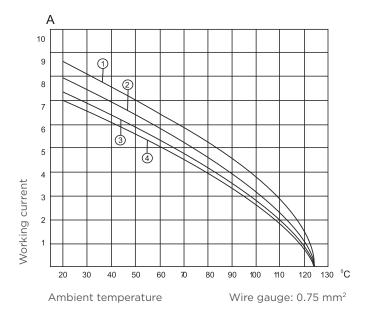
Working current	10A max
(See current carrying capacity)	
Working voltage	250V, Insulation group C
Test voltage urms	2.5KV
Pollution degree	2
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +100°C/125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	500V
Mechanical working life-mating cycles	≥500

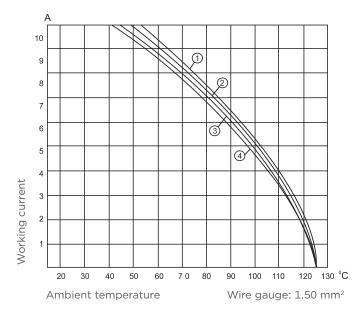
CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤3mΩ
Terminal	Crimp terminal
	Rolled terminal
- mm²	0.14-2.5mm²
- AWG	26-14

HOODS/HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc. to D	DIN40 050IP65





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



HD, **HDD** series

MODIFIED CONTACT ARRANGEMENT

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

	Contact arrangement view from termination side			
	Working contact	Without contact	Male insert	Female insert
Series HDD 380V-Insulation group C	12 + (1) (0 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	21 +	34 +	52 +
500V-Insulation group C	5+ (1) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	11 + (1) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	17 +	26 +
Series HD 500V ~ Pollution degree 3	M F	3 A	20 + (1) A 5 C (1) A 6 C (1) A 7 C (1) A 7 C (1) A 8 C (1) A	32 + (1) 2



HD-007/008 inserts

INSERTS FOR H3A HOOD/HOUSING

250V/50V 10A

7+⊕ 8

Dimensions (mm)	Contact arrangement view	Part Number	Туре		
	from termination side	Male insert	Female insert		
250V/10A	M (21.0)	T 2 02 007 2101-000		HD-007-M	
3	F 210 220 200 200 200 200 200 200 200 200		T 2 02 007 2201-000	HD-007-F	
50V/10A	M (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	T 2 02 008 2101-000		HD-008-M	
3	F 220 22 240 2		T 2 02 008 2201-000	HD-008-F	

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	. , , .		Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000	
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000	



H3A metal hoods/housings

Dimensions (m	m)		Metr.	PG	Туре	Part Number
Top entry						
	25 a		M20	PG11	H3A-MTG-PG11 H3A-MTG-M20	T 1 32 903 0111-000 T 1 32 903 0120-000
Side entry						
	26.8		M20	PG11	H3A-MTS-PG11 H3A-MTS-M20	T 1 31 903 0111-000 T 1 31 903 0120-000
Bulkhead moun	ting: Bottom entry					
	30.0	40.0			H3A-MAG	T 1 50 903 0000-000
Bulkhead moun	ting: Side entry					
		0.22			H3A-MAGS	T 1 54 903 0000-000
Surface mounti	ng: Side entry					
	25.5 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	40.5 40.5	M16 M20	PG11	H3A-MAGSV-PG11 H3A-MAGSV-M16 H3A-MAGSV-M20	T 1 61 903 0111-000 T 1 61 903 0116-000 T 1 61 903 0120-000
Cable-to-cable	hood:					
			M20	PG11	H3A-MTGVB-PG11 H3A-MTGVB-M20	T 1 73 903 0111-000 T 1 73 903 0120-000
Protection cove	rs for hoods (thermor	lastic)				
6	Note: For mounted male insert and hood	35.0			H3A-KDTP	T 1 01 003 1100-000
Metal protection	n covers for hoods		'			
TE .	Note: For mounted female insert and hood	CO.150			H3A-KDB	T 1 01 003 3100-000



H3A thermoplastic hoods/housings

THERMOPLASTIC HOODS, HOUSINGS

Dimensions (mm))	Metr.	PG	Туре	Part Number
Top entry					
	25.8	M20	PG11	H3A-TG-PG11 H3A-TG-M20	T 1 32 903 1111-000 T 1 32 903 1120-000
Side entry					
	26.8 26.8 26.8 26.8 26.8 26.8 26.8 26.8	M20	PG11	H3A-TS-PG11 H3A-TS-M20	T 1 31 903 1111-000 T 1 31 903 1120-000
Bulkhead mountir	ng: Bottom entry				
100	30.0			нза-AG	T 1 50 903 1100-000
Bulkhead mountir	ng: Side entry				
6	S 28.0 40.5			H3A-AGS	T 1 50 903 1111-000
Surface mounting	: Side entry				
6.		M16 M20	PG11	H3A-AGSV-PG11 H3A-AGSV-M16 H3A-AGSV-M20	T 1 61 903 1111-000 T 1 61 903 1116-000 T 1 61 903 1120-000
Cable-to-cable ho	ood:				
6		M20	PG11	H3A-TGVB-PG11 H3A-TGVB-M20	T 1 73 903 1111-000 T 1 73 903 1120-000
Protection covers	for hoods (thermoplastic)				
6	Note: For mounted male insert and hood			H3A-KDTP	T 1 01 003 1100-000
Protection covers	for hoods				
White Grey	Note: For mounted female insert and hood			H3A-KDBP (White) H3A-KDBPG (Grey)	T 1 01 003 2100-000 T 1 01 003 2300-000
Covers without se	ealing type				
				H3A-KDBP (White) H3A-KDBP (Grey)	T 1 01 003 3200-000 T 1 01 003 2200-000



HIP.3/4, HIP-K.3/4, EMV-K.3/4 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Top entry					
	M/PG	M16	11	HIP. HIP.3/4.ST0.1.11.G HIP.3/4.ST0.1.M16.G	1-1102600-5 0-1106408-1
	54 M4x22 M3x8	M16 M20	11	HIP-K HIP-K.3/4.ST0.1.11.G HIP-K.3/4.ST0.1.M16.G HIP-K.3/4.ST0.1.M20.G	2-1102600-5 0-1106408-2 0-1106408-3
	51 - 32 -	M16 M20	11	EMV-K EMV-K.3/4.ST0.1.11.G EMV-K.3/4.ST0.1.M16.G EMV-K.3/4.ST0.1.M20.G	4-1102700-5 0-1106402-2 0-1106402-3
Surface mounted	housing: Bottom entry				
	4,3-			HIP-K HIP-K.3/4.AG	1-1102603-5
	Panel cut-out 21 x 21			EMV-K EMV-K.3/4.AG	4-1102703-5
Surface mounted	housing: Bottom entry (by panel cut-out)			I
	51			HIP.3/4.SGF	1-1102602-5
	38 48			HIP-K.3/4.SGF	2-1102602-5
	Panel cut-out ø 20			EMV-K EMV-K.3/4.SGF	4-1102702-5



HIP.3/4, HIP-K.3/4, EMV-K.3/4 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Surface mounted	housing: Side entry	'	'		
	51——41—————————————————————————————————	M16 M20	PG11	HIP HIP.3/4.SG.1.11.G HIP.3/4.SG.1.M16.G HIP.3/4.SG.1.M20.G	1-1102601-5 0-1106407-1 0-1106401-4
	38 48	M16	PG11	HIP-K HIP-K.3/4.SG.1.11.G HIP-K.3/4.SG.1.M16.G	2-1102601-5 0-1106407-2
	M/PG		DC11	EMV-K	4 1100701 5
		M16	PG11	EMV-K.3/4.SG.1.11.G EMV-K.3/4.SG.1.M16.G	4-1102701-5 0-1106401-2
		M20		EMV-K.3/4.SG.1.M20.G	0-1106401-3
Protective cover	s for housings	<u>'</u>			•
•	M4x22			HIP/EMV	
	14 1 32 -			HIP/EMV.3/4.SKB HIP-K/EMV-K HIP-K/EMV-K.3/4.SKB	3-1106200-5 4-1106200-5



HD-015 inserts

INSERTS FOR H10A HOOD/HOUSING

250V 10A

15+⊕ (machined contacts)

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
	49.5 M3x10	HD-015-M	T 2 02 015 2101-000	
	F 56.5	HD-015-F		T 2 02 015 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
⊕ ⊕ ⊕ ⊕ A B C 1 1 2 ● • • • • 1 1 2 • • • • • 1 1 2 • • • • •	49.5			

10A Contact

Tech data Material: copper alloy		Wire gauge Stripping length		Crimp contacts, silver-plated		Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	[]	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000



HD-015 inserts

INSERTS FOR H10A HOOD/HOUSING

250V 10A

15+ \bigcirc (stamped and formed contacts)

Description	Description		Part Number		
Male insert	Female insert		Male insert	Female insert	
Crimp terminal					
		HD.15.Sti.C	2-1103004-3		
		HD.15.Bu.C		2-1103005-3	

Dimensions	А	В	С	D	Е
mm	49.5	57	23	35	35

Dimensions (mm)	Contact arrangement	Panel cut-out	
	Male insert	Female insert	
Sti	+ C C C C C C C C C C C C C C C C C C C	+	M3 49.5



H10A metal hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	63.0	M20 M25	PG16 PG21	H10A-TS-PG16 H10A-TS-PG21 H10A-TS-M20 H10A-TS-M25	T 1 31 910 0116-000 T 1 31 910 0121-000 T 1 31 910 0120-000 T 1 31 910 0125-000
Hood: Top entry					
	63.0 29.5	M20 M25	PG16 PG21	H10A-TG-PG16 H10A-TG-PG21 H10A-TG-M20 H10A-TG-M25	T 1 32 910 0116-000 T 1 32 910 0121-000 T 1 32 910 0120-000 T 1 32 910 0125-000
Protection covers f	for hoods				
	63.0	With plas	tic rope	H10A-KDT	T 1 01 910 1101-000 T 1 01 910 1201-000
Bulkhead mounted					
	70.0 63.6 81.0 53.5 53.5			H10A-AGS H10A-ADMS	T 1 50 910 1000-000 T 1 51 910 1000-000
	With protection cover			H10A-ADMS	T 1 51 910 1000-000
Surface mounted: S	Side entry				
	1 Side entry 2 Side entry Wind Wind	M20 M25 M20 M25	PG16 PG21 PG16 PG21	H10A-SGRS-PG16 H10A-SGRS-PG21 H10A-SGRS-M20 H10A-SGRS-M25 H10A-SGRS-2PG16 H10A-SGRS-2PG21 H10A-SGRS-2M20 H10A-SGRS-2M25	T 1 61 910 1116-000 T 1 61 910 1121-000 T 1 61 910 1120-000 T 1 61 910 1125-000 T 1 61 910 1216-000 T 1 61 910 1221-000 T 1 61 910 1220-000 T 1 61 910 1225-000
	With protection cover	M25	PG16 PG21 PG16 PG21	H10A-SDRMS-PG16 H10A-SDRMS-PG21 H10A-SDRMS-M20 H10A-SDRMS-M25 H10A-SDRMS-2PG16 H10A-SDRMS-2PG21 H10A-SDRMS-2M20 H10A-SDRMS-2M25	T 1 62 910 1116-000 T 1 62 910 1121-000 T 1 62 910 1120-000 T 1 62 910 1125-000 T 1 62 910 1216-000 T 1 62 910 1221-000 T 1 62 910 1220-000 T 1 62 910 1225-000
Cable-to-cable hoc	od				
	Construction H Low 52.6 Hight 66.6	M20 M25 M25	PG16	H10A-TBFS-PG16 H10A-TBFS-M20 H10A-TBFS-M25 H10A-TBFHS-PG21 H10A-TBFHS-M25	T 1 73 910 1116-000 T 1 73 910 1120-000 T 1 73 910 1125-000 T 1 77 910 1121-000 T 1 77 910 1125-000



HD-025 inserts

INSERTS FOR H16A HOOD/HOUSING

250V 10A

25+⊕ (machined contacts)

Dimensions (mm)		Туре	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal (order crimp co	ntacts separately)					
Paradal P	M (8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	HD-025-M	T 2 02 025 2101-000			
	M3x10	HD-025-F		T 2 02 025 2201-000		
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings					
©	66.0					

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge Strip- ping length Crimp contacts, silver-plated Crimp contacts, gold-plate			ping		tacts, gold-plated
Contact resistance: ≤3mΩ	3 2.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000



HD-025 inserts

INSERTS FOR H16A HOOD/HOUSING

250V 10A

25+⊕ (stamped and formed contacts)

Description	Description		Part Number	Part Number		
Male insert	Female insert		Male insert	Female insert		
Crimp terminal (orde	er crimp contacts separately)					
		HD.25.Sti.C	2-1103010-3			
		HD.25.Bu.C		2-1103011-3		

Dimensions	А	В	С	D	Е
mm	66	73	23	35	35

Dimensions (mm)	Contact arrangement	Panel cut-out		
	Male insert	Female insert		
Sti	+ 0.1.2 % 4.3.2 % 4.8.8 % + 0.0.0 % 6.0 %	+ 4, 2, 8, 4, 7, 8, 6, 7, 80, 0 - 1, 2, 8, 4, 7, 8, 9, + - 1, 2, 8, 4, 7, 8, 9, + - 1, 2, 8, 4, 7, 8, 9, +	M3 66 9 50 50 50 50 50 50 50 50 50 50 50 50 50	



H16A metal hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction High construction	M25	PG16 PG21	H16A-TS-PG16 H16A-TS-PG21 H16A-TS-M20 H16A-TS-M25 H16A-TSH-PG21	T 1 31 916 0116-000 T 1 31 916 0121-000 T 1 31 916 0120-000 T 1 31 916 0125-000 T 1 33 916 0121-000
	79.0 - 29.5	M25		H16A-TSH-M25	T 1 33 916 0125-000
Hood: Top entry		-			
	Low construction High construction	M25	PG16 PG21	H16A-TG-PG16 H16A-TG-PG21 H16A-TG-M20 H16A-TG-M25	T 1 32 916 0116-000 T 1 32 916 0121-000 T 1 32 916 0120-000 T 1 32 916 0125-000
	79.0	M25	PG21	H16A-TGH-PG21 H16A-TGH-M25	T 1 34 916 0121-000 T 1 34 916 0125-000
Protection covers	for hoods				
	79.0 9 R	with pl	astic rope	H16A-KDT	T 1 01 916 1101-000 T 1 01 916 1201-000
Bulkhead mounte	d				
M	86.0 03.6 0 03.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			H16A-AGS	T 1 50 916 1000-000
	With protection cover			H16A-ADS H16A-ADMS	T 1 51 916 2000-000 T 1 51 916 1000-000
Surface mounted:	Side entry				
	With protection cover	M20 M25	PG16 PG21 PG16 PG21	H16A-SGRS-PG16 H16A-SGRS-PG21 H16A-SGRS-M20 H16A-SGRS-M25 H16A-SGRS-2PG16 H16A-SGRS-2PG21 H16A-SGRS-2M20 H16A-SGRS-2M25	T 1 61 916 1116-000 T 1 61 916 1121-000 T 1 61 916 1120-000 T 1 61 916 1125-000 T 1 61 916 1216-000 T 1 61 916 1221-000 T 1 61 916 1220-000 T 1 61 916 1225-000
	Note of the state	M25	PG16 PG21 PG16 PG21	H16A-SDRMS-PG16 H16A-SDRMS-PG21 H16A-SDRMS-M20 H16A-SDRMS-M25 H16A-SDRMS-2PG16 H16A-SDRMS-2PG21 H16A-SDRMS-2M20 H16A-SDRMS-2M25	T 1 62 916 1116-000 T 1 62 916 1121-000 T 1 62 916 1120-000 T 1 62 916 1125-000 T 1 62 916 1216-000 T 1 62 916 1221-000 T 1 62 916 1220-000 T 1 62 916 1225-000
Cable-to-cable ho	od	1	1	1	1
	Construction H Low 66.6 Hight 80.6		PG16 PG21	H16A-TBFS-PG16 H16A-TBFS-M20 H16A-TBFS-M25 H16A-TBFHS-PG21 H16A-TBFHS-M25	T 1 73 916 1116-000 T 1 73 916 1120-000 T 1 73 916 1125-000 T 1 77 916 1121-000 T 1 77 916 1125-000



HD-050 inserts

INSERTS FOR H32A HOOD/HOUSING

250V 10A

50 (2x25)+ \bigoplus (Turning contacts)

Dimensions (mm)	Contact arrangement view	Туре	Part Number			
	from termination side		Male insert	Female insert		
Crimp terminal (order cri	mp contacts separately)					
Parado i	(\$\Phi\$	HD-025-M(1-25) HD-025-M(26-50)	T 2 02 025 2101-000 T 2 02 050 2101-000			
	⊕ ⊕ A B C 1 0 0 1 1 2 0 0 0 2 2 3 0 0 0 0 3 3 4 0 0 0 4 4 5 0 0 0 0 5 5 6 0 0 0 0 6 7 7 8 0 0 0 0 8 9 9 ⊕ ⊕ ⊕ ⊕	HD-025-F(1-25) HD-025-F(26-50)		T 2 02 025 2201-000 T 2 02 050 2201-000		

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	e gauge Strip- Cr ping length		Crimp contacts, silver-plated		Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000	
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000	



HD-050 inserts

INSERTS FOR H32A HOOD/HOUSING

250V 10A

50 (2x25)+ (stamped and formed contacts)

Description		Туре	Part Number	
Male insert	Female insert		Male insert	Female insert
Crimp terminal				
(AMARIAN)		HD.25.Sti.C	2-1103010-3	
		HD.25.Bu.C		2-1103011-3

Dimensions	А	В	С	D	Е
mm	66	73	23	35	35

Dimensions (mm)	Contact arrangement						
	Male insert	Female insert					
Sti	+ 0-08.42000 + 0-09.0000 + 0-09.000 + 0-09.000 + 0-09.000 + 0-09.000 + 0-09.000 + 0-09.0	+ <- 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.					



H32A metal hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	© 0.00 © 0.0	M25 M32 M40	PG21 PG29 PG36	H32A-TS-PG21 H32A-TS-PG29 H32A-TS-PG36 H32A-TS-M25 H32A-TS-M32 H32A-TS-M40	T 1 31 932 0121-000 T 1 31 932 0129-000 T 1 31 932 0136-000 T 1 31 932 0125-000 T 1 31 932 0132-000 T 1 31 932 0140-000
Hood: Top entry					
	PGM 82.0 56.0	M25 M32 M40	PG21 PG29 PG36	H32A-TG-PG21 H32A-TG-PG29 H32A-TG-PG36 H32A-TG-M25 H32A-TG-M32 H32A-TG-M40	T 1 32 932 0121-000 T 1 32 932 0129-000 T 1 32 932 0136-000 T 1 32 932 0125-000 T 1 32 932 0132-000 T 1 32 932 0140-000
Bulkhead mounte	d				
	73.0 92.0 12 92.0 12 12 102.0 12 12 13 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18			H32A-AG	T 1 41 932 0000-000
Surface mounted:	Side entry				
	94.0 106.0 8.0 95.5 106.0	1 Side entry M25 M32 2 Side entry M25 M32	PG21 PG29 PG21 PG29	H32A-SGR-PG21 H32A-SGR-PG29 H32A-SGR-M25 H32A-SGR-M32 H32A-SGR-2PG21 H32A-SGR-2PG29 H32A-SGR-2M25 H32A-SGR-2M32	T 1 44 932 0121-000 T 1 44 932 0129-000 T 1 44 932 0125-000 T 1 44 932 0132-000 T 1 44 932 0221-000 T 1 44 932 0229-000 T 1 44 932 0225-000 T 1 44 932 0232-000



HDD-016 inserts

INSERTS FOR H6B HOOD/HOUSING

250V 10A

16+⊕ (machined contacts)

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Crimp terminal (order crimp co	ntacts separately)				
	44.0 27.0 M	HDD-016-M	T 2 03 016 2101-000		
	M3x10 F	HDD-016-F		T 2 03 016 2201-000	
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings				
(44.0				

10A Contact

Tech data Material: copper alloy	10A Male Wire gauge crimp contacts		ge	Strip- ping length		Crimp contacts, silver-plated		Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000		
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000		



HDD-016 inserts

INSERTS FOR H6B HOOD/HOUSING

250V 10A

16+ \oplus (stamped and formed contacts)

Description	Description		Part Number		
Male insert	Female insert		Male insert	Female insert	
Crimp terminal					
T		HD.16.Sti.C	2-1103006-3		
		HD.16.Bu.C		2-1103007-3	

Dimensions	А	В	С	D	Е
mm	44	51	33	35	35

Dimensions (mm)	Contact arrangement	Panel cut-out	
	Male insert	Female insert	
M	A 1 2 3 4 B · · · · C · · · · D · · · · 1 2 3 4	D.12.34 C B A 12.34	20 27 36 44 52



H6B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number			
Hood: Side entry								
	Low construction	M20 M25	PG16 PG21	H6B-TS-PG16 H6B-TS-PG21 H6B-TS-M20 H6B-TS-M25	T 1 31 006 0116-000 T 1 31 006 0121-000 T 1 31 006 0120-000 T 1 31 006 0125-000			
	High construction	M20 M25 M32	PG21 PG29	H6B-TSH-PG21 H6B-TSH-PG29 H6B-TSH-M20 H6B-TSH-M25 H6B-TSH-M32	T 1 33 006 0121-000 T 1 33 006 0129-000 T 1 33 006 0120-000 T 1 33 006 0125-000 T 1 33 006 0132-000			
Hood: Top entry								
STEEL	Low construction	M20 M25	PG16 PG21	H6B-TG-PG16 H6B-TG-PG21 H6B-TG-M20 H6B-TG-M25	T 1 32 006 0116-000 T 1 32 006 0121-000 T 1 32 006 0120-000 T 1 32 006 0125-000			
	High construction	M20 M25 M32	PG21 PG29	H6B-TGH-PG21 H6B-TGH-PG29 H6B-TGH-M20 H6B-TGH-M25 H6B-TGH-M32	T 1 34 006 0121-000 T 1 34 006 0129-000 T 1 34 006 0120-000 T 1 34 006 0125-000 T 1 34 006 0132-000			
Cable-to-cable hood								
	Construction H Low 62.5 Hight 74.5	M20 M25 M20 M25 M32	PG16 PG21 PG29	H6B-TBFS-PG16 H6B-TBFS-M20 H6B-TBFS-M25 H6B-TBFHS-PG21 H6B-TBFHS-PG29 H6B-TBFHS-M20 H6B-TBFHS-M25 H6B-TBFHS-M32	T 1 73 006 2116-000 T 1 73 006 2120-000 T 1 73 006 2125-000 T 1 77 006 2121-000 T 1 77 006 2129-000 T 1 77 006 2120-000 T 1 77 006 2125-000 T 1 77 006 2132-000			
Protection covers f	Protection covers for hoods							
				H6B-KDTP	T 1 01 006 1400-000			



H6B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number			
Bulkhead mounted								
	70.0 103.d 22.2 32.3 43.5 22.3 42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5				H6B-AGS	T 1 50 006 2000-000		
	With protection cover				H6B-ADS	T 1 51 006 2100-000		
Surface mounted:	Side entry							
	Construction A B H Low 40 52 56 Hight 45 57 74	1 Side entry 2 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG29 PG21 PG29	H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25 H6B-SGRS-2PG16 H6B-SGRS-2PG21 H6B-SGRS-2M20 H6B-SGRS-2M25 H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M32 H6B-SGRHS-M32 H6B-SGRHS-2PG21 H6B-SGRHS-2PG21 H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M32	T 1 61 006 2116-000 T 1 61 006 2121-000 T 1 61 006 2120-000 T 1 61 006 2125-000 T 1 61 006 2216-000 T 1 61 006 2221-000 T 1 61 006 2221-000 T 1 61 006 2225-000 T 1 65 006 2121-000 T 1 65 006 2125-000 T 1 65 006 2125-000 T 1 65 006 2125-000 T 1 65 006 2221-000 T 1 65 006 2225-000 T 1 65 006 2232-000 T 1 65 006 2232-000		
	Construction A B H Low 40 52 56 Hight 45 57 74	1 Side entry 2 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25 H6B-SDRS-2PG16 H6B-SDRS-2M20 H6B-SDRS-2M25 H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M25 H6B-SDRHS-2PG21 H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2PG29 H6B-SDRHS-2PG29 H6B-SDRHS-2M32	T 1 62 006 2116-000 T 1 62 006 2121-000 T 1 62 006 2120-000 T 1 62 006 2125-000 T 1 62 006 2216-000 T 1 62 006 2221-000 T 1 62 006 2225-000 T 1 66 006 2121-000 T 1 66 006 2125-000 T 1 66 006 2221-000 T 1 66 006 2225-000		



HIP.6/16, HIP-K.6/16, EMV-K.6/16 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Side entry					
	M/PG	M25	16	HIP HIP.6/16.STS.1.16.G HIP.6/16.STS.1.M25.G	1-1102631-5 0-1106425-2
	82 96 53	M25	16 21	HIP-K HIP-K.6/16.STS.1.16.G HIP-K.6/16.STS.1.21.G HIP-K.6/16.STS.1.M25.G	2-1102631-5 2-1102633-5 0-1106425-4
	<u> </u>	M25	16	EMV-K EMV-K.6/16.STS.1.16.G EMV-K.6/16.STS.1.M25.G	4-1102704-5 0-1106416-4
Hood: Top entry					
		M32	16	HIP.6/16.STO.1.16.G HIP.6/16.STO.1.M32.G	1-1102635-5 0-1106425-1
	MPG	M25 M32	16 21	HIP-K HIP-K.6/16.STO.1.16.G HIP-K.6/16.STO.1.21.G HIP-K.6/16.STO.1.M25.G HIP-K.6/16.STO.1.M32.G	2-1102635-5 2-1102637-5 0-1106425-6 0-1106425-3
		M32	13 16 21	EMV-K EMV-K.6/16.STO.1.13.G EMV-K.6/16.STO.1.16.G EMV-K.6/16.STO.1.21.G EMV-K.6/16.STO.1.M32.G	0-1108719-1 4-1102706-5 4-1102707-5 0-1106416-3
Surface mounted	housing: Bottom entry				
	70 <u>94.5</u> 11 32 32 56			HIP HIP.6/16.AG	1-1102638-5
	M4 32 36			HIP-K HIP-K.6/16.AG	2-1102638-5
	52 70			EMV-K EMV-K.6/16.AG	4-1102710-5
	M6x20 79 8 43			HIP HIP.6/16.AG.M6	1-1102606-5
	Panel cut-out			HIP-K HIP-K.6/16.AG.M6	2-1102606-5
	36 43 52 79			EMV-K EMV-K.6/16.AG.M6	4-1102712-5



HDD-042 inserts

INSERTS FOR H10B HOOD/HOUSING

250V 10A

42+⊕ (machined contacts)

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp cor	ntacts separately)			
	57.0 27.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HDD-042-M	T 2 03 042 2101-000	
	F 64.0	HDD-042-F		T 2 03 042 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
(\$\displays\$ \begin{picture}(42) & \displays\$ \\ \dingnetat* \\ \dintty* \\ \dintty* \\ \displays\$ \\ \displays\$ \	77.50 B 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- Crimp contacts, silver-plated ping length			Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	3 200	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000	
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000	



HDD-024 inserts

INSERTS FOR H10B HOOD/HOUSING

250V 10A

24+ ⊕(stamped and formed contacts)

Description		Type	Part Number	
Male insert	Female insert	-	Male insert	Female insert
Crimp terminal				
D & S & S J.		HD.24.Sti.C	2-1103008-3	
		HD.24.BU.C		2-1103009-3

Dimensions	А	В	С	D	Е
mm	57	64	33	35	35

Suitable crimp contacts and crimping tools: see page 111

Dimensions (mm)	Contact arrangement	Panel cut-out	
	Male insert	Female insert	
F 64.0 34.0	+ 1-2 × 4 × 0 × + O • • • • • • 0 O • • • • • • 0 O • • • • • • 0 O • • • • • 0 O • • • • • 0 O • • • • • 0 O • • • • • 0 O • • • • • 0 O • • • • • 0 O • • • • • 0 O • • • • • 0 O • • • • • 0 O • • • • 0 O • • • • 0 O • • • • 0 O • • • • 0 O • • • • 0 O • • • 0 O • • 0 O • 0	+ - 2 & 4 & 0 & + 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 &	36 27 20 M3 36 27 20 50 57 65



H10B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M20 M25	PG16 PG21	H10B-TS-PG16 H10B-TS-PG21 H10B-TS-M20 H10B-TS-M25	T 1 21 010 0116-000 T 1 21 010 0121-000 T 1 21 010 0120-000 T 1 21 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TSH-PG21 H10B-TSH-PG29 H10B-TSH-M20 H10B-TSH-M25 H10B-TSH-M32	T 1 23 010 0121-000 T 1 23 010 0129-000 T 1 23 010 0120-000 T 1 23 010 0125-000 T 1 23 010 0132-000
Hood: Top entry					
	Low construction	M20 M25	PG16 PG21	H10B-TG-PG16 H10B-TG-PG21 H10B-TG-M20 H10B-TG-M25	T 1 22 010 0116-000 T 1 22 010 0121-000 T 1 22 010 0120-000 T 1 22 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TGH-PG21 H10B-TGH-PG29 H10B-TGH-M20 H10B-TGH-M25 H10B-TGH-M32	T 1 24 010 0121-000 T 1 24 010 0129-000 T 1 24 010 0120-000 T 1 24 010 0125-000 T 1 24 010 0132-000
Cable-to-cable hoo	pd			1	
13 C	Construction H Low 62.5 Hight 74.5	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBFS-PG16 H10B-TBFS-M20 H10B-TBFS-M25 H10B-TBFHS-PG21 H10B-TBFHS-PG29 H10B-TBFHS-M25 H10B-TBFHS-M32	T 1 71 010 1116-000 T 1 71 010 1120-000 T 1 71 010 1125-000 T 1 75 010 1121-000 T 1 75 010 1129-000 T 1 75 010 1125-000 T 1 75 010 1132-000
Protection covers f	or hoods				
Control of the contro	77.6.4			H10B-KDTP	T 1 01 010 1400-000
Housing protection	n cover				
	76.5			H10B-KDBP	T 1 01 010 2100-000



H10B with 2 levers on the hoods/housings

Dimensions (mm))	Metr.	PG	Туре	Part Number
Bulkhead mount	ed				
	120 S30 232 120 43.5			H10B-AGS	T 1 41 010 1000-000
Surface mounted	l: Side entry	I	1	T	
(A)	1. Side entry 2. Side entry Low construction	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25	T 1 44 010 1116-000 T 1 44 010 1121-000 T 1 44 010 1120-000 T 1 44 010 1125-000 T 1 44 010 1216-000 T 1 44 010 1221-000 T 1 44 010 1220-000 T 1 44 010 1225-000
	Construction A B H Hight 45 57 74	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H10B-SGRHS-PG21 H10B-SGRHS-PG29 H10B-SGRHS-M25 H10B-SGRHS-M32 H10B-SGRHS-2PG21 H10B-SGRHS-2PG29 H10B-SGRHS-2M25 H10B-SGRHS-2M32	T 1 47 010 1121-000 T 1 47 010 1129-000 T 1 47 010 1125-000 T 1 47 010 1132-000 T 1 47 010 1221-000 T 1 47 010 1229-000 T 1 47 010 1225-000 T 1 47 010 1232-000
Side entry housing	ng with two levers				
0	Low construction	M20 M25	PG16 PG21	H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25	T 1 25 010 3116-000 T 1 25 010 3121-000 T 1 25 010 3120-000 T 1 25 010 3125-000
Sto &	Construction H Low 60 Hight 72	M25 M32	PG21 PG29	H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32	T 1 27 010 3121-000 T 1 27 010 3129-000 T 1 27 010 3125-000 T 1 27 010 3132-000
Top entry housin	g with two levers				
	Low construction His	M20 M25	PG16 PG21	H10B-TGBS-PG16 H10B-TGBS-PG21 H10B-TGBS-M20 H10B-TGBS-M25 H10B-TGBHS-PG21	T 1 26 010 3116-000 T 1 26 010 3121-000 T 1 26 010 3120-000 T 1 26 010 3125-000 T 1 28 010 3121-000
St. o.c.	Construction H Low 60 Hight 72	M25 M32	PG21 PG29	H10B-TGBHS-PG29 H10B-TGBHS-M25 H10B-TGBHS-M32	T 1 28 010 3121-000 T 1 28 010 3129-000 T 1 28 010 3125-000 T 1 28 010 3132-000
Bulkhead mount	ed with 4 bolts	T		I	
	With protection cover			H10B-AD-BO	T 1 43 010 0000-000
	1 Side entry 2 Side entry 3 Sid	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H10B-SDR-BO-PG16 H10B-SDR-BO-PG21 H10B-SDR-BO-M20 H10B-SDR-BO-M25 H10B-SDR-BO-2PG16 H10B-SDR-BO-2PG21 H10B-SDR-BO-2M20 H10B-SDR-BO-2M25	T 1 46 010 0116-000 T 1 46 010 0121-000 T 1 46 010 0120-000 T 1 46 010 0125-000 T 1 46 010 0216-000 T 1 46 010 0221-000 T 1 46 010 0220-000 T 1 46 010 0225-000
	Construction A B C D F G H Low 82 94 40 52 22 67 54 Hight 82 94 45 57 20 65 74	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H10B-SDRH-BO-PG21 H10B-SDRH-BO-PG29 H10B-SDRH-BO-M25 H10B-SDRH-BO-M32 H10B-SDRH-BO-2PG21 H10B-SDRH-BO-2PG29 H10B-SDRH-BO-2M25 H10B-SDRH-BO-2M32	T 1 49 010 0121-000 T 1 49 010 0129-000 T 1 49 010 0125-000 T 1 49 010 0132-000 T 1 49 010 0221-000 T 1 49 010 0229-000 T 1 49 010 0225-000 T 1 49 010 0232-000



H10B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M20 M25	PG16 PG21	H10B-TS-RO-PG16 H10B-TS-RO-PG21 H10B-TS-RO-M20 H10B-TS-RO-M25	T 1 31 010 0116-000 T 1 31 010 0121-000 T 1 31 010 0120-000 T 1 31 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TSH-RO-PG21 H10B-TSH-RO-PG29 H10B-TSH-RO-M20 H10B-TSH-RO-M25 H10B-TSH-RO-M32	T 1 33 010 0121-000 T 1 33 010 0129-000 T 1 33 010 0120-000 T 1 33 010 0125-000 T 1 33 010 0132-000
Hood: Top entry			1		
	Low construction	M20 M25	PG16 PG21	H10B-TG-RO-PG16 H10B-TG-RO-PG21 H10B-TG-RO-M20 H10B-TG-RO-M25	T 1 32 010 0116-000 T 1 32 010 0121-000 T 1 32 010 0120-000 T 1 32 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TGH-RO-PG21 H10B-TGH-RO-PG29 H10B-TGH-RO-M20 H10B-TGH-RO-M25 H10B-TGH-RO-M32	T 1 34 010 0121-000 T 1 34 010 0129-000 T 1 34 010 0120-000 T 1 34 010 0125-000 T 1 34 010 0132-000
Cable-to-cable hoc	od .				
	Construction H Low 62.5 Hight 74.5	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBF-LB-PG16 H10B-TBF-LB-M20 H10B-TBF-LB-M25 H10B-TBFH-LB-PG21 H10B-TBFH-LB-PG29 H10B-TBFH-LB-M25 H10B-TBFH-LB-M32	T 1 73 010 3116-000 T 1 73 010 3120-000 T 1 73 010 3125-000 T 1 77 010 3121-000 T 1 77 010 3129-000 T 1 77 010 3125-000 T 1 77 010 3132-000
Protection covers f	or hoods		I	I	
				H10B-KDTP-LB	T 1 01 010 1500-000



H10B with 1 lever on the hoods/housings

Dimensions (mn	n)	Metr.	PG	Туре	Part Number
Bulkhead mount	red				
	51.00 44.50 51.00			H10B-AG-LB	T 1 50 010 3000-000
	With protection cover			H10B-AD-LB H10B-ADM-LB	T 1 51 010 3000-000 T 1 51 010 3001-000
Surface mounted	d: Side entry				
	Construction A B H Low 40 52 54 Hight 45 57 74	M20 M25 M20 M25 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H10B-SGR-LB-PG16 H10B-SGR-LB-PG21 H10B-SGR-LB-M20 H10B-SGR-LB-M25 H10B-SGR-LB-2PG16 H10B-SGR-LB-2PG21 H10B-SGR-LB-2M20 H10B-SGR-LB-2M25 H10B-SGRH-LB-PG21 H10B-SGRH-LB-PG29 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M32	T 1 61 010 3116-000 T 1 61 010 3121-000 T 1 61 010 3120-000 T 1 61 010 3125-000 T 1 61 010 3216-000 T 1 61 010 3221-000 T 1 61 010 3225-000 T 1 65 010 3121-000 T 1 65 010 3125-000 T 1 65 010 3125-000 T 1 65 010 3125-000 T 1 65 010 3221-000 T 1 65 010 3225-000
	With protection cover Construction A B H Low 40 52 54 Hight 45 57 74	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H10B-SDR-LB-PG16 H10B-SDR-LB-PG21 H10B-SDR-LB-M20 H10B-SDR-LB-M25 H10B-SDR-LB-2PG16 H10B-SDR-LB-2PG21 H10B-SDR-LB-2M20 H10B-SDR-LB-2M25 H10B-SDRH-LB-PG21 H10B-SDRH-LB-PG29 H10B-SDRH-LB-M25 H10B-SDRH-LB-M25 H10B-SDRH-LB-M25 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2PG29	T 1 62 010 3116-000 T 1 62 010 3121-000 T 1 62 010 3120-000 T 1 62 010 3125-000 T 1 62 010 3216-000 T 1 62 010 3221-000 T 1 62 010 3225-000 T 1 66 010 3121-000 T 1 66 010 3129-000 T 1 66 010 3125-000 T 1 66 010 3125-000 T 1 66 010 3125-000 T 1 66 010 3225-000



HIP.10/24, HIP-K.10/24, EMV-K.10/24 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar

IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Side entry,	Standard construction				
		M25	16 21	HIP HIP.10/24.STS.1.16.G HIP.10/24.STS.1.21.G HIP.10/24.STS.1.M25.G	1-1102640-5 1-1102642-5 0-1106436-2
	MPG Report of the second of th	M25 M32	21	HIP-K HIP-K.10/24.STS.1.21.G HIP-K.10/24.STS.1.M25.G HIP-K.10/24.STS.1.M32.G	2-1102642-5 0-1106436-4 0-1106436-6
	109	M25 M32	21	EMV-K EMV-K.10/24.STS.1.21.G EMV-K.10/24.STS.1.M25.G EMV-K.10/24.STS.1.M32.G	4-1102714-5 0-1106427-3 1-1106427-0
Hood: Top entry					
	M/PG 95 109	M25 M25 M32	16 21 16	HIP HIP.10/24.STO.1.16.G HIP.10/24.STO.1.21.G HIP.10/24.STO.1.M25.G HIP-K HIP-K.10/24.STO.1.16.G HIP-K.10/24.STO.1.M25.G HIP-K.10/24.STO.1.M32.G EMV-K EMV-K.10/24.STO.1.21.G	1-1102644-5 1-1102646-5 0-1106436-1 2-1102644-5 0-1106436-3 0-1106436-5
		M25		EMV-K.10/24.STO.1.M25.G	0-1106427-4
Surface mounted	housing: Bottom entry				
	83 ø4.5 — 32 — 356 — 83			HIP HIP.10/24.AG HIP-K HIP-K.10/24.AG EMV-K EMV-K.10/24.AG	1-1102647-5 2-1102647-5 4-1102718-5



HIP.10/24, HIP-K.10/24, EMV-K.10/24 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Description		Metr.	PG	Туре	Part Number
Surface mounted	housing: Bottom entry				
	M6x20 92 109 Panel cut-out M6 43 36 65 92			HIP HIP.10/24.AG.M6 HIP-K HIP-K.10/24.AG.M6 EMV-K EMV-K.10/24.AG.M6	1-1102612-5 2-1102612-5 4-1102720-5
Surface mounted	housing: Side entry				
	M/PG 38 38 38 38 36 55 56 38 38 38 38 38 38 38 38 38 38 38 38 38	2xM32 2xM32	21 2x21 21 2x21 21 2x21	HIP HIP.10/24.SG.1.21.G HIP.10/24.SG.2.21.G HIP.10/24.SG.2.M32.G HIP-K HIP-K.10/24.SG.1.21.G HIP-K.10/24.SG.2.21.G EMV-K EMV-K.10/24.SG.1.21.G EMV-K.10/24.SG.2.21.G EMV-K.10/24.SG.2.21.G	1-1102610-5 1-1102611-5 0-1106435-1 5-1102610-5 2-1102611-5 5-1102716-5 4-1102717-5 0-1106426-2
Protective covers	for hoods and housing				
	M6x30 19 109 53			HIP HIP/EMV.10/24.SKB HIP-K/EMV-K HIP-K/EMV-K.10/24.SKB	3-1106202-5 4-1106202-5



HD-040 inserts

INSERTS FOR H16B HOOD/HOUSING

250V 10A

40+⊕ (machined contacts)

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
1 January		HD-040-M	T 2 02 040 2101-000	
	F	HD-040-F		T 2 02 040 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕	77.50 77.50 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9			

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- Crimp contacts, silver-plated ping length Crimp contacts, gold-plate			tacts, gold-plated	
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000



HD-040 inserts

INSERTS FOR H16B HOOD/HOUSING

250V 10A

40+ ⊕ (stamped and formed contacts)

Description		Туре	Part Number	Part Number		
Male insert	Female insert		Male insert	Female insert		
Crimp terminal						
	Samo 2	HD.40.Sti.C	2-1103012-3			
		HD.40.BU.C		2-1103013-3		

Dimer	nsions	А	В	С	D	Е
mm		77.5	84.5	33	35	35

Suitable crimp contacts and crimping tools: see page 111

Dimensions (mm)	Contact arrangement		Panel cut-out	
	Male insert	Female insert		
Sti	A 1 2 3 4 5 6 7 8 9 10 B • • • • • • • • • C • • • • • • • • D • • • • • • • • • 1 2 3 4 5 6 7 8 9 10	D12345678910 C00000000000000000000000000000000000	36 27 20 1 1 1 77.5 77.5 85,5	



HDD-072 inserts

INSERTS FOR H16B HOOD/HOUSING

250V 10A

72+⊕ (machined contacts)

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Crimp terminal (order crimp co	ntacts separately)				
	M	HDD-072-M	T 2 03 072 2101-000		
		HDD-072-F		T 2 03 072 2201-000	
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings				
$ \begin{pmatrix} \bigoplus & \bigoplus & \bigoplus \\ 61 & \bigoplus & 1 \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & $	77.50 77.50 ⊕ 38 88 95 5.00 68.50				

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length			ping		
Contact resistance: ≤3mΩ	8 <u>8 2500</u>	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0 6.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000	
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000	



H16B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
333	Low construction	M20 M25 M32	PG16 PG21	H16B-TS-PG16 H16B-TS-PG21 H16B-TS-M20 H16B-TS-M25 H16B-TS-M32	T 1 21 016 0116-000 T 1 21 016 0121-000 T 1 21 016 0120-000 T 1 21 016 0125-000 T 1 21 016 0132-000
	High construction	M25 M32 M40	PG21 PG29	H16B-TSH-PG21 H16B-TSH-PG29 H16B-TSH-M25 H16B-TSH-M32 H16B-TSH-M40	T 1 23 016 0121-000 T 1 23 016 0129-000 T 1 23 006 0125-000 T 1 23 016 0132-000 T 1 23 016 0140-000
Hood: Top entry			I	I	
	Low construction	M25 M32	PG16 PG21	H16B-TG-PG16 H16B-TG-PG21 H16B-TG-M25 H16B-TG-M32	T 1 22 016 0116-000 T 1 22 016 0121-000 T 1 22 016 0125-000 T 1 22 016 0132-000
338	High construction	M25 M32 M40	PG21 PG29	H16B-TGH-PG21 H16B-TGH-PG29 H16B-TGH-M25 H16B-TGH-M32 H16B-TGH-M40	T 1 24 016 0121-000 T 1 24 016 0129-000 T 1 24 016 0125-000 T 1 24 016 0132-000 T 1 24 016 0140-000
Cable-to-cable hoc	pd				
	Construction H Low 62.5 Hight 74.5	M25 M32 M25 M32 M40	PG21 PG21 PG29	H16B-TBFS-PG21 H16B-TBFS-M25 H16B-TBFS-M32 H16B-TBFHS-PG21 H16B-TBFHS-PG29 H16B-TBFHS-M25 H16B-TBFHS-M32 H16B-TBFHS-M40	T 1 71 016 1121-000 T 1 71 016 1125-000 T 1 71 016 1132-000 T 1 75 016 1121-000 T 1 75 016 1129-000 T 1 75 016 1125-000 T 1 75 016 1132-000 T 1 75 016 1140-000
Protection covers f	or hoods		ı		
	\$ 300			H16B-KDTP	T 1 01 016 1400-000
Housing protection	cover				
0	99.00			H16B-KDBP	T 1 01 016 2100-000



H16B with 2 levers on the hoods/housings

Dimensions (mm	1)	Metr.	PG	Туре	Part Number
Bulkhead mount	ed				
	12.00 15.00 12.00			H16B-AGS	T 1 41 016 1000-000
Surface mounted	l: Side entry				
	1 Side entry 1 Sid	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 H16B-SGRHS-PG21 H16B-SGRHS-PG29 H16B-SGRHS-M32 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2PG29 H16B-SGRHS-2M32	T 1 44 016 1121-000 T 1 44 016 1125-000 T 1 44 016 1221-000 T 1 44 016 1225-000 T 1 47 016 1121-000 T 1 47 016 1129-000 T 1 47 016 1125-000 T 1 47 016 1221-000 T 1 47 016 1221-000 T 1 47 016 1225-000
Side entry housing	ng with two levers				
	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25 H16B-TSBHS-PG21 H16B-TSBHS-PG29 H16B-TSBHS-M25 H16B-TSBHS-M32	T 1 25 016 3116-000 T 1 25 016 3121-000 T 1 25 016 3120-000 T 1 25 016 3125-000 T 1 27 016 3121-000 T 1 27 016 3129-000 T 1 27 016 3125-000 T 1 27 016 3132-000
Top entry housin	g with two levers				
	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25 H16B-TGBHS-PG21 H16B-TGBHS-PG29 H16B-TGBHS-M25 H16B-TGBHS-M32	T 1 26 016 3116-000 T 1 26 016 3121-000 T 1 26 016 3120-000 T 1 26 016 3125-000 T 1 28 016 3121-000 T 1 28 016 3129-000 T 1 28 016 3125-000 T 1 28 016 3132-000
Bulkhead mount	ed with 4 bolts				
	Vith protection cover 1 1 1 1 1 1 1 1 1	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25 H16B-SDRH-BO-PG21 H16B-SDRH-BO-PG29 H16B-SDRH-BO-M25 H16B-SDRH-BO-M32 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG29 H16B-SDRH-BO-2M32	T 1 43 016 0000-000 T 1 46 016 0121-000 T 1 46 016 0125-000 T 1 46 016 0221-000 T 1 49 016 0121-000 T 1 49 016 0129-000 T 1 49 016 0125-000 T 1 49 016 0125-000 T 1 49 016 0221-000 T 1 49 016 0221-000 T 1 49 016 0225-000 T 1 49 016 0225-000



H16B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M25 M32	PG21 PG29	H16B-TS-RO-PG21 H16B-TS-RO-PG29 H16B-TS-RO-M25 H16B-TS-RO-M32	T 1 31 016 0121-000 T 1 31 016 0129-000 T 1 31 016 0125-000 T 1 31 016 0132-000
	High construction	M25 M32 M40	PG21 PG29	H16B-TSH-RO-PG21 H16B-TSH-RO-PG29 H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40	T 1 33 016 0121-000 T 1 33 016 0129-000 T 1 33 016 0125-000 T 1 33 016 0132-000 T 1 33 016 0140-000
Hood: Top entry					
	Low construction	M25 M32	PG21 PG29	H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25 H16B-TG-RO-M32	T 1 32 016 0121-000 T 1 32 016 0129-000 T 1 32 016 0125-000 T 1 32 016 0132-000
	High construction	M25 M32 M40	PG21 PG29	H16B-TGH-RO-PG21 H16B-TGH-RO-PG29 H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	T 1 34 016 0121-000 T 1 34 016 0129-000 T 1 34 016 0125-000 T 1 34 016 0132-000 T 1 34 016 0140-000
Cable-to-cable hoc	od				
	Construction H Low 62.5	M25 M32	PG21 PG29	H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 H16B-TBFH-LB-PG21	T 1 73 016 3121-000 T 1 73 016 3129-000 T 1 73 016 3125-000 T 1 73 016 3132-000 T 1 77 016 3121-000
	Hight 74.5	M25 M32 M40	PG29	H16B-TBFH-LB-PG29 H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40	T 1 77 016 3129-000 T 1 77 016 3125-000 T 1 77 016 3132-000 T 1 77 016 3140-000
Protection covers f	or hoods				
				H16B-KDTP-LB	T 1 01 016 1500-000



H16B with 1 lever on the hoods/housings

Dimensions (mn	1)	Metr.	PG	Туре	Part Number			
Bulkhead mount	Bulkhead mounted							
	S S S S S S S S S S S S S S S S S S S			H16B-AG-LB	T 1 50 016 3000-000			
	With protection cover			H16B-AD-LB	T 1 51 016 3000-000			
Surface mounted	d: Side entry							
	Construction H Low 56	M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SGR-LB-PG16 H16B-SGR-LB-PG21 H16B-SGR-LB-M20 H16B-SGR-LB-M25 H16B-SGR-LB-2PG16 H16B-SGR-LB-2PG21 H16B-SGR-LB-2M20 H16B-SGR-LB-2M25 H16B-SGRH-LB-PG29 H16B-SGRH-LB-M25 H16B-SGRH-LB-M25 H16B-SGRH-LB-M25 H16B-SGRH-LB-M25 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2M25 H16B-SGRH-LB-2M32	T 1 61 016 3116-000 T 1 61 016 3121-000 T 1 61 016 3120-000 T 1 61 016 3125-000 T 1 61 016 3216-000 T 1 61 016 3221-000 T 1 61 016 3221-000 T 1 61 016 3225-000 T 1 65 016 3121-000 T 1 65 016 3125-000 T 1 65 016 3225-000 T 1 65 016 3232-000			
	Construction H	M20 M25 M20 M25 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SDR-LB-PG16 H16B-SDR-LB-PG21 H16B-SDR-LB-M20 H16B-SDR-LB-M25 H16B-SDR-LB-2PG16 H16B-SDR-LB-2PG21 H16B-SDR-LB-2M20 H16B-SDR-LB-2M25 H16B-SDRH-LB-PG29 H16B-SDRH-LB-M25 H16B-SDRH-LB-M25 H16B-SDRH-LB-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M32 H16B-SDRH-LB-2M32	T 1 62 016 3116-000 T 1 62 016 3121-000 T 1 62 016 3120-000 T 1 62 016 3125-000 T 1 62 016 3216-000 T 1 62 016 3221-000 T 1 62 016 3221-000 T 1 62 016 3225-000 T 1 66 016 3121-000 T 1 66 016 3125-000 T 1 66 016 3225-000 T 1 66 016 3232-000			



HIP.16/40, HIP-K.16/40, EMV-K.16/40 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 68 / IP 69 K Description Metr. PG Type Part Number

Description		Metr.	PG	Туре	Part Number
Hood: Side entry					
	M/P6 57	M32	21 29	HIP HIP.16/40.STS.1.21.G HIP.16/40.STS.1.29.G HIP.16/40.STS.1.M32.G	1-1102649-5 1-1102651-5 0-1106454-2
		M32	29	HIP-K HIP-K.16/40.STS.1.29.G HIP-K.16/40.STS.1.M32.G	2-1102651-5 0-1106444-2
	115.5 4 53 53	M32	29 21	EMV-K EMV-K.16/40.STS.1.29.G EMV-K.16/40.STS.1.M32.G EMV-K.16/40.STS.1.21.G	4-1102723-5 0-1106446-4 4-1102722-5
Hood: Top entry					
	M/PG 57	M32	21 29	HIP HIP.16/40.STO.1.21.G HIP.16/40.STO.1.29.G HIP.16/40.STO.1.M32.G	1-1102653-5 1-1102655-5 0-1106454-1
	115.5 129.5	M32	21 29	HIP-K HIP-K.16/40.STO.2.21.G HIP-K.16/40.STO.1.29.G HIP-K.16/40.STO.1.M32.G	0-1108534-1 2-1102655-5 0-1106444-1
		M32	29	EMV-K EMV-K.16/40.STO.1.29.G EMV-K.16/40.STO.1.M32.G	4-1102725-5 0-1106446-3
Surface mounted	housing: Bottom entry				
	103 04.5 11 0 0 1 32 56 56			HIP HIP.16/40.AG	1-1102656-5
	Panel cut-out			HIP-K.16/40.AG EMV-K EMV-K.16/40.AG	2-1102656-5 4-1102728-5
	M6x20 M6x20 112.5 129.5 129.5			HIP HIP.16/40.AG.M6	1-1102618-5
-	Panel cut-out			HIP-K HIP-K.16/40.AG.M6	2-1102618-5
	112.5 11			EMV-K EMV-K.16/40.AG.M6	4-1102730-5



HIP.16/40, HIP-K.16/40, EMV-K.16/40 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar

IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Surface mounted	housing: Side entry				
				HIP	
			21	HIP.16/40.SG.1.21.G	1-1102616-5
			2x21	HIP.16/40.SG.2.21.G	1-1102617-5
		2xM32		HIP.16/40.SG.2.M32.G	0-1106453-1
1 7	129.5 MPG			НІР-К	
THE RESERVE TO SERVE THE PARTY OF THE PARTY	I WIFE		21	HIP-K.16/40.SG.1.21.G	5-1102616-5
THE STATE OF THE S			2x21	HIP-K.16/40.SG.2.21.G	2-1102617-5
105.5 05.5 18 45	105.5 05.5 45 123.5 56	2xM32		HIP-K.16/40.SG.2.M32.G	0-1106443-1
	1250			EMV-K	
			21	EMV-K.16/40.SG.1.21.Z	4-1102726-5
			2x21	EMV-K.16/40.SG.2.21.Z	4-1102727-5
		2xM32		EMV-K.16/40.SG.2.M32.G	0-1106445-2
Protective covers	for housings				
				HIP	
	M6x30			HIP/EMV.16/40.SKB	3-1106203-5
	129.5			HIP-K	
	53			HIP-K.16/40.SKB	4-1106203-5



HD-064 inserts

INSERTS FOR H24B HOOD/HOUSING

250V 10A

64+⊕ (machined contacts)

Dimensions (mm)	Туре	Part Number		
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
4 James of Parties of	M A A A A A A A A A A A A A A A A A A A	HD-064-M	T 2 02 064 2101-000	
	F	HD-064-F		T 2 02 064 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
(104.00			

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	ng			Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000		
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000		



HD-064 inserts

INSERTS FOR H24B HOOD/HOUSING

250V 10A

64+ \oplus (stamped and formed contacts)

Description		Туре	Part Number	
Male insert	Female insert		Male insert	Female insert
Crimp terminal				
	HD.64.Sti.C	2-1103032-3		
		HD.64.BU.C		2-1103033-3

Suitable crimp contacts and crimping tools: see page 111

Dimensions (mm)	Contact arrangement	arrangement					
	Male insert	Female insert					
Sti		91 91 91 91 91 91 91 91 91 91	M3 104 2 2 8 97 112				



HDD-108 inserts

INSERTS FOR H24B HOOD/HOUSING

250V 10A

108+⊕ (machined contacts)

Dimensions (mm)	Туре	Part Number		
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
S. January.	M MANO	HDD-108-M	T 2 03 108 2101-000	
	F CHILDREN	HDD-108-F		T 2 03 108 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
(104.00 0072			

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	ping			ping		
Contact resistance: ≤3mΩ	<u>z</u>	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000		
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000		



H24B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M25 M32	PG16 PG21	H24B-TS-PG16 H24B-TS-PG21 H24B-TS-M25 H24B-TS-M32	T 1 21 024 0116-000 T 1 21 024 0121-000 T 1 21 024 0125-000 T 1 21 024 0132-000
· · · · · · · · · · · · · · · · · · ·	High construction	M25 M32 M40	PG21 PG29	H24B-TSH-PG21 H24B-TSH-PG29 H24B-TSH-M25 H24B-TSH-M32 H24B-TSH-M40	T 1 23 024 0121-000 T 1 23 024 0129-000 T 1 23 024 0125-000 T 1 23 024 0132-000 T 1 23 024 0140-000
Hood: Top entry					
	Low construction	M25 M32	PG16 PG21	H24B-TG-PG16 H24B-TG-PG21 H24B-TG-M25 H24B-TG-M32	T 1 22 024 0116-000 T 1 22 024 0121-000 T 1 22 024 0125-000 T 1 22 024 0132-000
	High construction	M25 M32 M40	PG21 PG29	H24B-TGH-PG21 H24B-TGH-PG29 H24B-TGH-M25 H24B-TGH-M32 H24B-TGH-M40	T 1 24 024 0121-000 T 1 24 024 0129-000 T 1 24 024 0125-000 T 1 24 024 0132-000 T 1 24 024 0140-000
Cable-to-cable hoo	pd				
	Construction H Low 62.5 Hight 78.5	M25 M32 M25 M32 M40	PG21 PG21 PG29	H24B-TBFS-PG21 H24B-TBFS-M25 H24B-TBFS-M32 H24B-TBFHS-PG21 H24B-TBFHS-PG29 H24B-TBFHS-M25 H24B-TBFHS-M32 H24B-TBFHS-M40	T 1 71 024 1121-000 T 1 71 024 1125-000 T 1 71 024 1132-000 T 1 75 024 1121-000 T 1 75 024 1129-000 T 1 75 024 1125-000 T 1 75 024 1132-000 T 1 75 024 1140-000
Protection covers f	or hoods				
	19.00 E 19.00			H24B-KDTP	T 1 01 024 1400-000
Housing protection	cover				
0	99.00			H24B-KDBP	T 1 01 024 2100-000



H24B with 2 levers on the hoods/housings

Dimensions (mm	1)	Metr.	PG	Туре	Part Number
Bulkhead mount	ed				
	150,00 B4.60 P4.60			H24B-AGS	T 1 41 024 1000-000
Surface mounted	: Side entry				
	2 Side entry 2 Side entry 2 Side entry 2 Side entry 4 Side entry 5 Sid	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-SGRS-PG21 H24B-SGRS-M25 H24B-SGRS-2PG21 H24B-SGRS-2M25 H24B-SGRHS-PG21 H24B-SGRHS-M25 H24B-SGRHS-M32 H24B-SGRHS-M32 H24B-SGRHS-2PG21 H24B-SGRHS-2PG29 H24B-SGRHS-2M25 H24B-SGRHS-2M32	T 1 44 024 1121-000 T 1 44 024 1125-000 T 1 44 024 1221-000 T 1 44 024 1225-000 T 1 47 024 1121-000 T 1 47 024 1129-000 T 1 47 024 1125-000 T 1 47 024 1125-000 T 1 47 024 1221-000 T 1 47 024 1221-000 T 1 47 024 1225-000 T 1 47 024 1225-000 T 1 47 024 1232-000
Side entry housing	ng with two levers				
	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TSBS-PG16 H24B-TSBS-PG21 H24B-TSBS-M20 H24B-TSBS-M25 H24B-TSBHS-PG21 H24B-TSBHS-PG29 H24B-TSBHS-M25 H24B-TSBHS-M32	T 1 25 024 3116-000 T 1 25 024 3121-000 T 1 25 024 3120-000 T 1 25 024 3125-000 T 1 27 024 3121-000 T 1 27 024 3129-000 T 1 27 024 3125-000 T 1 27 024 3132-000
Top entry housin	g with two levers				
	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TGBS-PG16 H24B-TGBS-PG21 H24B-TGBS-M20 H24B-TGBS-M25 H24B-TGBHS-PG21 H24B-TGBHS-PG29 H24B-TGBHS-M25 H24B-TGBHS-M32	T 1 26 024 3116-000 T 1 26 024 3121-000 T 1 26 024 3120-000 T 1 26 024 3125-000 T 1 28 024 3121-000 T 1 28 024 3121-000 T 1 28 024 3125-000 T 1 28 024 3132-000
Bulkhead mount	ed with 4 bolts				
	1 Side entry 2 Side entry 1 Side entry 2 Si	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-AD-BO H24B-SDR-BO-PG21 H24B-SDR-BO-2PG21 H24B-SDR-BO-2M25 H24B-SDR-BO-2M25 H24B-SDRH-BO-PG21 H24B-SDRH-BO-PG29 H24B-SDRH-BO-M25 H24B-SDRH-BO-M32 H24B-SDRH-BO-2PG21 H24B-SDRH-BO-2PG21 H24B-SDRH-BO-2PG29 H24B-SDRH-BO-2M32	T 1 43 024 0000-000 T 1 46 024 0121-000 T 1 46 024 0125-000 T 1 46 024 0221-000 T 1 46 024 0225-000 T 1 49 024 0121-000 T 1 49 024 0125-000 T 1 49 024 0125-000 T 1 49 024 0132-000 T 1 49 024 0221-000 T 1 49 024 0225-000 T 1 49 024 0225-000



H24B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number				
Hood: Side entry	Hood: Side entry								
	Low construction	M25 M32	PG21 PG29	H24B-TS-RO-PG21 H24B-TS-RO-PG29 H24B-TS-RO-M25 H24B-TS-RO-M32	T 1 31 024 0121-000 T 1 31 024 0129-000 T 1 31 024 0125-000 T 1 31 024 0132-000				
() ()	High construction	M25 M32 M40	PG21 PG29	H24B-TSH-RO-PG21 H24B-TSH-RO-PG29 H24B-TSH-RO-M25 H24B-TSH-RO-M32 H24B-TSH-RO-M40	T 1 33 024 0121-000 T 1 33 024 0129-000 T 1 33 024 0125-000 T 1 33 024 0132-000 T 1 33 024 0140-000				
Hood: Top entry									
	Low construction	M25 M32	PG21 PG29	H24B-TG-RO-PG21 H24B-TG-RO-PG29 H24B-TG-RO-M25 H24B-TG-RO-M32	T 1 32 024 0121-000 T 1 32 024 0129-000 T 1 32 024 0125-000 T 1 32 024 0132-000				
2	High construction	M25 M32 M40	PG21 PG29	H24B-TGH-RO-PG21 H24B-TGH-RO-PG29 H24B-TGH-RO-M25 H24B-TGH-RO-M32 H24B-TGH-RO-M40	T 1 34 024 0121-000 T 1 34 024 0129-000 T 1 34 024 0125-000 T 1 34 024 0132-000 T 1 34 024 0140-000				
Cable-to-cable hoc	od								
	Construction H Low 62.5 Hight 78.5	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H24B-TBF-LB-PG21 H24B-TBF-LB-PG29 H24B-TBF-LB-M25 H24B-TBF-LB-M32 H24B-TBFH-LB-PG21 H24B-TBFH-LB-PG29 H24B-TBFH-LB-M25 H24B-TBFH-LB-M32	T 1 73 024 2121-000 T 1 73 024 2129-000 T 1 73 024 2125-000 T 1 73 024 2132-000 T 1 77 024 3121-000 T 1 77 024 3129-000 T 1 77 024 3125-000 T 1 77 024 3132-000				
	See leave de	M40		H24B-TBFH-LB-M40	T 1 77 024 3140-000				
Protection covers f	or noods								
11				H24B-KDTP-LB	T 1 01 024 1500-000				



H24B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number	
Bulkhead mount	ed					
	51 1000 AGC 1220 1200 1200 1200 1200 1200 1200 120				H24B-AG-LB	T 1 50 024 3000-000
	With protection cover				H24B-AD-LB	T 1 51 024 3000-000
Surface mounted	l: Side entry					
	Construction H Low 56 Hight 81	1 Side entry 2 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H24B-SGR-LB-PG16 H24B-SGR-LB-PG21 H24B-SGR-LB-M20 H24B-SGR-LB-M25 H24B-SGR-LB-2PG16 H24B-SGR-LB-2PG21 H24B-SGR-LB-2M20 H24B-SGR-LB-2M25 H24B-SGRH-LB-PG21 H24B-SGRH-LB-PG29 H24B-SGRH-LB-M32 H24B-SGRH-LB-M32 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG29 H24B-SGRH-LB-2M25 H24B-SGRH-LB-2M32	T 1 61 024 3116-000 T 1 61 024 3121-000 T 1 61 024 3120-000 T 1 61 024 3125-000 T 1 61 024 3216-000 T 1 61 024 3221-000 T 1 61 024 3221-000 T 1 61 024 3225-000 T 1 65 024 3121-000 T 1 65 024 3121-000 T 1 65 024 3125-000 T 1 65 024 3125-000 T 1 65 024 3221-000 T 1 65 024 3225-000 T 1 65 024 3225-000 T 1 65 024 3225-000 T 1 65 024 3232-000
	With protection cover Construction H Low 56 Hight 81	1 Side entry 2 Side entry 1 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H24B-SDR-LB-PG16 H24B-SDR-LB-PG21 H24B-SDR-LB-M20 H24B-SDR-LB-M25 H24B-SDR-LB-2PG16 H24B-SDR-LB-2M20 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDRH-LB-PG21 H24B-SDRH-LB-PG29 H24B-SDRH-LB-M32 H24B-SDRH-LB-M32 H24B-SDRH-LB-M32 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG29 H24B-SDRH-LB-2M32 H24B-SDRH-LB-2M32	T 1 62 024 3116-000 T 1 62 024 3121-000 T 1 62 024 3120-000 T 1 62 024 3125-000 T 1 62 024 3216-000 T 1 62 024 3221-000 T 1 62 024 3225-000 T 1 66 024 3125-000 T 1 66 024 3225-000 T 1 66 024 3232-000



HIP.24/64, HIP-K.24/64, EMV-K.24/64 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 68 / IP 69 K PG Metr. **Description Type Part Number** Surface mounted housing: Bottom entry, Standard construction HIP HIP.24/64.AG 1-1102665-5 HIP-K HIP-K.24/64.AG 2-1102665-5 EMV-K EMV-K.24/64.AG 4-1102760-5 M6x20 HIP HIP.24/64.AG.M6 1-1102626-5 HIP-K.24/64.AG.M6 2-1102626-5 HIP-K.24/64.AG.M6.D 2-1102628-5 HIP-K-I.24/64.AG.M6.D 0-1108533-1 EMV-K EMV-K.24/64.AG.M6 4-1102736-5 Surface mounted housing: Side entry, Standard construction HIP 29 HIP.24/64.SG.1.29.G 1-1102624-5 2x29 1-1102625-5 HIP.24/64.SG.2.29.G 2xM40 HIP.24/64.SG.2.M40.G 0-1106472-1 HIP-K HIP-K.24/64.SG.1.29.G 5-1102624-5 29 HIP-K.24/64.SG.2.29.G 2x29 2-1102625-5 2xM40 HIP-K.24/64.SG.2.M40.G 0-1106472-2 Ø 5,5 EMV-K EMV-K.24/64.SG.1.29.G 4-1102734-5 29 EMV-K.24/64.SG.2.29.G 2x29 4-1102735-5 2xM40 EMV-K.24/64.SG.2.M40.G 0-1106460-2 **Protective cover housings** M6x30 HIP HIP/EMV.24/64.SKB 3-1106204-5 THE STATE OF THE S HIP-K/EMV-K 156



4-1106204-5

HIP-K/EMV-K.24/64.SKB

HIP.24/64, HIP-K.24/64, EMV-K.24/64 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Side entry,	Standard construction				
	M/PG	M40	21 29	HIP HIP.24/64.STS.1.21.G HIP.24/64.STS.1.29 G HIP.24/64.STS.1.M40.G	1-1102658-5 1-1102660-5 0-1106473-2
		M40	29	HIP-K HIP-K.24/64.STS.1.29.G HIP-K.24/64.STS.1.M40.G	2-1102660-5 0-1106473-4
	142 156	M25 M32 M40	29	EMV-K EMV-K.24/64.STS.1.29.G EMV-K.24/64.STS.1.M25.G EMV-K.24/64.STS.1.M32.G EMV-K.24/64.STS.1.M40.G	4-1102755-5 0-1102983-1 0-1106461-8 0-1106461-3
	M/PG	M40	29 36	HIP- HIP-KF.24/64.STS.1.29.G HIP-KF.24/64.STS.1.36.G HIP-KF.24/64.STS.1.M40.G	1-1102622-5 1-1102623-5 0-1106474-1
	M6x30	M40	29 36	HIP-K HIP-KF/K.24/64.STS.1.29.G HIP-KF/K. 24/64.STS.1.36G HIP-KF/K.24/64.STS.1.M40.G	2-1102622-5 2-1102623-5 0-1106474-2
	156 53	M40	29 36	EMV-K EMV-KF/K.24/64.STS.1.29.G EMV-KF/K.24/64.STS.1.36.G EMV-KF/K.24/64.STS.1.M40.G	4-1102732-5 4-1102733-5 0-1106462-2
Hood: Top entry,	Standard construction				
		M40			
	MPG 57	2xM32 M40	21 29	HIP HIP.24/64.STO.1.21.G HIP.24/64.STO.1.29.G HIP.24/64.STO.1.M40.G	1-1102662-5 1-1102664-5 0-1106473-1
	142	M40 2xM40	29	HIP-K HIP-K.24/64.STO.1.29.G HIP-K.24/64.STO.2.M32.G HIP-K.24/64.STO.1.M40.G	2-1102664-5 0-1102792-1 0-1106473-3
	156 53	2xM40	29	EMV-K EMV-K.24/64.STO.1.29.G EMV-K.24/64.STO.1.M40.G	4-1102759-5 0-1106461-4
		2xM40			



HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood

Description		Metr.	PG	Туре	Part Number
Hood					
	128 8 8 184 184 185 185 185 185 185 185 185 185	1xM50 1xM50 2xM40 2xM40		HF-HIP-K.8.Sto.1.M50G HF.8.EMV-K.8.Sto.1.M50G HF.HIP-K.8.Sto.2.M40G HF.EMV-K.8.Sto.2.M40G	0-1102839-4 0-1102839-3 0-1102839-2 0-1102839-1
Housing bottom					
		Hei	ght		
	184 184 184 184 184 184 184 184 184 184	81 mm 81 mm	20 mm 20 mm	HF-HIP-K.8.AG.N HF-EMV-K.8.AG.N HF-HIP-K.8.AG HF-EMV-K.8.AG	0-1102837-2 0-1102837-1 0-1102836-2 0-1102836-1
Hood					
	5 134 B	2xM40 2xM40 2xM50 2xM50		HF-HIP-K.12.Sto.2.M40G HF-EMV-K.12.Sto.2.M40G HF-HIP-K.12.Sto.2.M50G HF-EMV-K.12.Sto.2.M50G	0-1102840-2 0-1102840-1 0-1102840-4 0-1102840-3
Housing bottom					
	8 184 184 184 184 184 184 184 184 184 18	81 mm 81 mm	20 mm 20 mm	HF-HIP-K.12.AG.N HF-EMV-K.12.AG.N HF-HIP-K.12.AG HF-EMVK-K.12.AG	0-1102838-2 0-1102838-1 0-1102192-2 0-1102192-1



HD-080 inserts

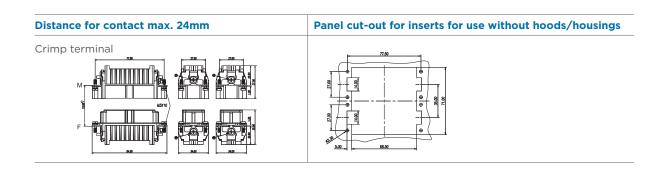
INSERTS FOR H32B HOOD/HOUSING

250V 10A

80 (2x40)+ (machined contacts)

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side				
The state of the s		HD-040-M(1-40) HD-040-M(41-80)	T 2 02 040 2101-000 T 2 02 080 2101-000		
The same of the sa		HD-040-F(1-40) HD-040-F(41-80)		T 2 02 040 2201-000 T 2 02 080 2201-000	

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	Crimp con	rimp contacts, silver-plated		Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CDM/Male	on	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000		
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000		





HD-080 inserts

INSERTS FOR H32B HOOD/HOUSING

250V 10A

80 (2x40)+ \oplus (stamped and formed contacts)

Description		Туре	Part Number	
Male insert	Female insert		Male insert	Female insert
Screw terminal				
		2xHD.40.Sti.C	2-1103012-3	
		2xHD.40.Bu.C		2-1103013-3

Dimensions	А	В	С	D	Е
mm	77.5	84.5	33	35	35

Suitable crimp contacts and crimping tools: see page 111

Dimensions (mm)	Contact arrangement					
	Male insert	Female insert				
Sti B B C C D D D D D D D D D D D D D D D D	A1 2 3 4 5 6 7 8 9 10 C A A A A A A A A A A A A A A A A A A	D12345678910 C00000000000000000000000000000000000				

HDD-144 inserts

INSERTS FOR H32B HOOD/HOUSING

250V 10A

144 (2x72)+ \bigoplus (machined contacts)

Dimensions (mm)		Туре	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side					
		HDD-072-M(1-72) HDD-072-M(73-144)	T 2 03 072 2101-000 T 2 03 144 2101-000			
		HDD-072-F(1-72) HDD-072-F(73-144)		T 2 03 072 2201-000 T 2 03 144 2201-000		

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length			Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	3 200	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CDM/Male	ection	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000	
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000	

Distance for contact max. 24mm Panel cut-out for inserts for use without hoods/housings Crimp terminal



H32B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	S R R R R R R R R R R R R R R R R R R R	M32 M40	PG29 PG36	H32B-TS-PG29 H32B-TS-PG36 H32B-TS-M32 H32B-TS-M40	T 1 21 032 0129-000 T 1 21 032 0136-000 T 1 21 032 0132-000 T 1 21 032 0140-000
Hood: Top entry				T	
		M25 M32 M40 M50	PG21 PG29 PG36 PG42	H32B-TG-PG21 H32B-TG-PG29 H32B-TG-PG36 H32B-TG-PG42 H32B-TG-M25 H32B-TG-M32 H32B-TG-M40 H32B-TG-M50	T 1 22 032 0121-000 T 1 22 032 0129-000 T 1 22 032 0136-000 T 1 22 032 0142-000 T 1 22 032 0125-000 T 1 22 032 0132-000 T 1 22 032 0140-000 T 1 22 032 0150-000
Bulkhead mounted					
				H32B-AG	T 1 41 032 2000-000
Surface mounted: S	Side entry				
	2 Side only 2 Side only	M32 M40 M50 M63 M32 M40 M50 M63	PG29 PG36 PG42 PG29 PG36 PG42	H32B-SGR-PG29 H32B-SGR-PG36 H32B-SGR-PG42 H32B-SGR-M32 H32B-SGR-M40 H32B-SGR-M50 H32B-SGR-M63 H32B-SGR-2PG29 H32B-SGR-2PG36 H32B-SGR-2PG42 H32B-SGR-2M32 H32B-SGR-2M30 H32B-SGR-2M40 H32B-SGR-2M50 H32B-SGR-2M63	T 1 44 032 2129-000 T 1 44 032 2136-000 T 1 44 032 2132-000 T 1 44 032 2132-000 T 1 44 032 2140-000 T 1 44 032 2150-000 T 1 44 032 2150-000 T 1 44 032 229-000 T 1 44 032 2236-000 T 1 44 032 2232-000 T 1 44 032 2232-000 T 1 44 032 2232-000 T 1 44 032 2240-000 T 1 44 032 2250-000 T 1 44 032 2250-000 T 1 44 032 2263-000
Cable-to-cable hoo	d				
	94 107/11 20 94	M32 M40 M50 M63	PG29 PG36 PG42	H32B-TBF-PG29 H32B-TBF-PG36 H32B-TBF-PG42 H32B-TBF-M32 H32B-TBF-M40 H32B-TBF-M50 H32B-TBF-M63	T 1 71 032 2129-000 T 1 71 032 2136-000 T 1 71 032 2142-000 T 1 71 032 2132-000 T 1 71 032 2140-000 T 1 71 032 2150-000 T 1 71 032 2163-000
Protection covers for	or hoods				
	83.00			H32B-KDB	T 1 00 032 1220-000



H32B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
381		M32 M40	PG29 PG36	H32B-TS-RO-PG29 H32B-TS-RO-PG36 H32B-TS-RO-M32 H32B-TS-RO-M40	T 1 31 032 0129-000 T 1 31 032 0136-000 T 1 31 032 0132-000 T 1 31 032 0140-000
Hood: Top entry		1	I	I	1
	PQM BOD BOD BOD BOD BOD BOD BOD BOD	M25 M32 M40 M50	PG21 PG29 PG36 PG42	H32B-TG-RO-PG21 H32B-TG-RO-PG29 H32B-TG-RO-PG36 H32B-TG-RO-PG42 H32B-TG-RO-M25 H32B-TG-RO-M32 H32B-TG-RO-M40 H32B-TG-RO-M50	T 1 32 032 0121-000 T 1 32 032 0129-000 T 1 32 032 0136-000 T 1 32 032 0142-000 T 1 32 032 0125-000 T 1 32 032 0132-000 T 1 32 032 0140-000 T 1 32 032 0150-000
Bulkhead mounted					
				H32B-AG-LB	T 1 50 032 2000-000
	With protection cover			H32B-AD-LB	T 1 51 032 2000-000
Surface mounted: S	Side entry				
	1 Side entry 2 Side entry	M32 M40 M32 M40	PG29	H32B-SGR-LB-PG29 H32B-SGR-LB-M32 H32B-SGR-LB-M40 H32B-SGR-LB-2PG29 H32B-SGR-LB-2M32 H32B-SGR-LB-2M40	T 1 61 032 2129-000 T 1 61 032 2132-000 T 1 61 032 2140-000 T 1 61 032 2229-000 T 1 61 032 2232-000 T 1 61 032 2240-000
	With protection cover	M32 M40 M32 M40	PG29	H32B-SDR-LB-PG29 H32B-SDR-LB-M32 H32B-SDR-LB-M40 H32B-SDR-LB-2PG29 H32B-SDR-LB-2M32 H32B-SDR-LB-2M40	T 1 62 032 0129-000 T 1 62 032 0132-000 T 1 62 032 0140-000 T 1 62 032 0229-000 T 1 62 032 0232-000 T 1 62 032 0240-000



HD-128 inserts

INSERTS FOR H48B HOOD/HOUSING

250V 10A

128 (2x64)+ \oplus (machined contacts)

Dimensions (mm)		Туре	Part Number			
			Male insert	Female insert		
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side					
A Laboratory of the Control of the C	######################################	HD-064-M(1-64) HD-064-M(65-128)	T 2 02 064 2101-000 T 2 02 128 2101-000			
The state of the s	# ### ################################	HD-064-F(1-64) HD-064-F(65-128)		T 2 02 064 2201-000 T 2 02 128 2201-000		

Tech data Material: copper alloy	10A Male crimp contacts	Wire gauge Stripping Crimp contacts, silver-plant ping length				tacts, silver-plated	Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	8 2 200 1 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000	
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000	

Distance for contact max. 24mm	Panel cut-out for inserts for use without hoods/housing
Crimp terminal	194.00 194.00



HD.128/HEE 92 contact inserts

INSERTS FOR H48B HOOD/HOUSING

250V 10A

128 (2x64)+ \oplus (stamped and formed contacts)

Description Male insert Female insert		Туре	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal						
		2xHD.64.Sti.C	2-1103032-3			
		2xHD.64.Bu.C		2-1103033-3		

Dimensions	А	В	С	D	Е
mm	104	110	33	35	35

Suitable crimp contacts and crimping tools: see page 111

Dimensions (mm)	Contact arrangement				
	Male insert	Female insert			
Sti	# F F F F F F F F F F F F F F F F F F F	10			



HDD-216 inserts

INSERTS FOR H48B HOOD/HOUSING

250V 10A

216 (2x108)+ (machined contacts)

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side				
		HDD-108-M(1-108) HDD-108-M(109-216)	T 2 03 108 2101-000 T 2 03 216 2101-000		
		HDD-108-F(1-108) HDD-108-F(109-216)		T 2 03 108 2201-000 T 2 03 216 2201-000	

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	Crimp con	tacts, silver-plated	Crimp con	tacts, gold-plated
Contact resistance: ≤3mΩ	2.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000

Distance for contact max. 24mm	Panel cut-out for inserts for use without hoods/housings
Crimp terminal	77.50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



H48B hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
211		M32 M40 M50 M63	PG29 PG36 PG42	H48B-TS-PG29 H48B-TS-PG36 H4SB-TS-PG42 H48B-TS-M32 H48B-TS-M40 H48B-TS-M50 H48B-TS-M63	T 1 31 048 0129-000 T 1 31 048 0136-000 T 1 31 048 0142-000 T 1 31 048 0132-000 T 1 31 048 0140-000 T 1 31 048 0150-000 T 1 31 048 0163-000
Hood: Top entry					
		M32 M40 M50 M63	PG29 PG36 PG42	H48B-TG-PG29 H48B-TG-PG36 H48B-TG-PG42 H48B-TG-M32 H48B-TG-M40 H48B-TG-M50 H48B-TG-M63	T 1 32 048 0129-000 T 1 32 048 0136-000 T 1 32 048 0142-000 T 1 32 048 0132-000 T 1 32 048 0140-000 T 1 32 048 0150-000 T 1 32 048 0163-000
Bulkhead mounted				T	
				H48B-AG	T 1 50 048 2000-000
	With protection cover			H48B-AD-LB	T 1 51 048 2000-000
Surface mounted: S	Side entry				
	2 Side entry	M32 M40 M50 M32 M40 M50	PG29 PG36 PG42 PG29 PG36 PG42	H48B-SGR-PG29 H48B-SGR-PG36 H48B-SGR-PG42 H48B-SGR-M32 H48B-SGR-M40 H48B-SGR-M50 H48B-SGR-2PG29 H48B-SGR-2PG36 H48B-SGR-2PG42 H48B-SGR-2M32 H48B-SGR-2M40 H48B-SGR-2M50	T 1 61 048 2129-000 T 1 61 048 2136-000 T 1 61 048 2142-000 T 1 61 048 2132-000 T 1 61 048 2140-000 T 1 61 048 2150-000 T 1 61 048 2229-000 T 1 61 048 2236-000 T 1 61 048 2242-000 T 1 61 048 2232-000 T 1 61 048 2240-000 T 1 61 048 2250-000
Surface mounted w	vith cover				
	2 Side entry 2 Side entry 151.5	M32 M40 M50 M32 M40 M50	PG29 PG36 PG42 PG29 PG36 PG42	H48B-SDR-PG29 H48B-SDR-PG36 H48B-SDR-PG42 H48B-SDR-M32 H48B-SDR-M50 H48B-SDR-2PG29 H48B-SDR-2PG36 H48B-SDR-2PG42 H48B-SDR-2M32 H48B-SDR-2M32 H48B-SDR-2M40 H48B-SDR-2M50	T 1 62 048 0129-000 T 1 62 048 0136-000 T 1 62 048 0142-000 T 1 62 048 0132-000 T 1 62 048 0140-000 T 1 62 048 0150-000 T 1 62 048 029-000 T 1 62 048 0236-000 T 1 62 048 0242-000 T 1 62 048 0232-000 T 1 62 048 0240-000 T 1 62 048 0250-000



Crimp contacts HN.D series

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000

Crimping tools HN.D series

Description	Туре	Part Number
Crimp tool Wire range: 0.5-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts	CRIMPBOX-0.5/4	T 3 10 000 0001-000
Crimp tool Wire range: 0.14-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts with locator and die	RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CDM/CDF contact series	REMOV-HD	T 3 10 000 0003-000
M3 screw driver Used for HA/HE inserts	SCREWD-M3	T 3 10 000 0009-000



Crimp contacts HD.M series

10A Contact

Tech data Material: copper allo	ру	Description	on		Туре	Part Number	Dimensions (mm²)
Finish: tin plated		Pin contac	ct	Socket contact			
hard gold Contact resistance:	≤3mΩ		•		Pin contact tin plated	1-1105000-3 2-1105000-3 4-1105000-3	0.3-0.56 0.5-1.5 1.5-2.5
Crimp Terr 0.14-2.5 mi		ø1,6			Reel contact/pin tin plated	0-0164161-9 0-0166824-2	0.5-1.5 1.5-2.5
AWG: 26-1	4			14,5	Pin contact gold plated	1-1105000-2 3-1105000-2	0.3-0.56 0.8-1.5
Туре		e cross	Stripping		Reel contact/pin gold plated	0-0164160-4 0-0164161-4	0.3-0.56 0.8-1.5
1		.56 mm ²	length 3.5 mm		Socket contact tin plated	1-1105001-3 2-1105001-3	0.3-0.56 0.5-1.5
2	0.5-1	L.5 mm ²	3.5 mm			4-1105001-3	1.5-2.5
3	0.8-1	L.5 mm ²	3.5 mm		Socket contact gold plated	1-1105001-2 3-1105001-2	0.3-0.56 0.8-1.5
4	1.5-2	2.5 mm ²	3.5 mm		Reel contact/socket	1-0163087-1 0-0163083-7	0.3-0.56 0.8-1.5

Crimping tools HD.M series

Description		Designation	Part Number	Cross section (mm²)
Crimping tool without locator and die		RSZ.BAS	539635-1	
Locator and die		ERGO-DIE XII	539742-2	0.2-2.5mm ² for contacts PN
Extraction tool HD.M	₹TE	AWZG-HD.M-RSZ	0-1102855-1	all cross sections
Insertion tool	£11	EWZG-RSZ	0-1102855-6	below 0.75mm²



Notes		



HE, HEE, HEEE Series



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

- 2. Standards
 DIN EN 60 664-1
 DIN EN 61 984
- 3. Approvals









HE technical characteristics

Specifications	DIN EN 60 664-1
	DIN EN 61 984
Number of contacts	6,10,16,24,32(2x16),
	48(2x24) + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

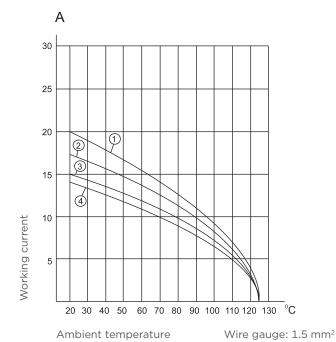
Working current	16A max
(See current carrying capacity)	
Working voltage	500V
Test voltage urms	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C+125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

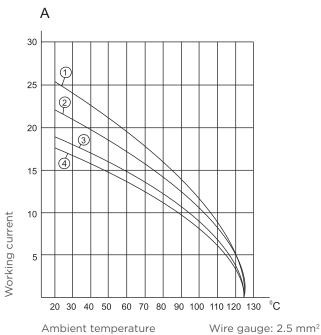
CONTACTS

$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Crimp terminal 0.14-4.0 Screw terminal 0.5-2.5 Spring terminal 0.5-2.5 Double Spring terminal 0.2-2.5 -AWG
Crimp terminal 26-12 Screw terminal 20-14 Spring terminal 20-14 Double Spring terminal 26-14 - Tightening/test torque 0.5 Nm

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc. to D	IN40 050IP65





- 1 HDC-HE-006
- 2 HDC-HE-010
- 3 HDC-HE-016
- 4 HDC-HE-024



HEE technical characteristics

Specifications	DIN EN 60 664-1
	DIN EN 61 984
Number of contacts	10,18,32,46,64(2x32),
	92(2x46) + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

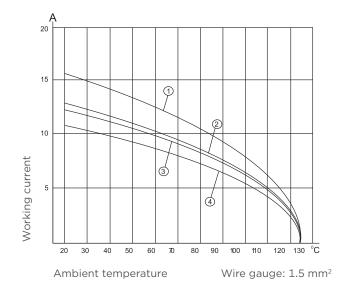
Working current	16A max
(See current carrying capacity)	
Working voltage	500V
Test voltage urms	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

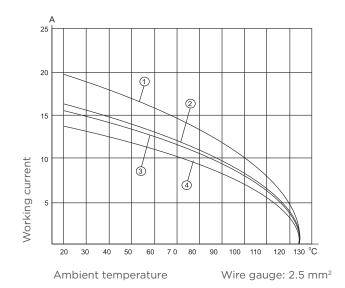
CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤1mΩ
Terminal	Crimp terminal
- mm²	0.14-4.0mm ²
- AWG	26-12

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc. to [DIN40 050IP65





- 1 HDC-HEE-010
- 2 HDC-HEE-018
- 3 HDC-HEE-032
- 4 HDC-HEE-046



HEEE technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals Control and test procedures according to DIN IEC 60512-3.

INSERTS

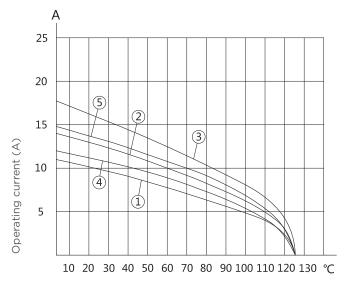
Working current	16A max
(See current carrying capacity)	
Working voltage	
HEEE-20,32,48,72,96,144	400V
HEEE-40,64,80,128	500V
Test voltage urms	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤5mΩ
Terminal	Crimp terminal
- mm²	0.14-4.0mm ²
- AWG	26-12

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc. to [DIN40 050IP65



Ambient temperature (°C)

- 1 HEEE-064 / 1.5 mm²
- 2 HEEE-064 / 2.5 mm²
- 3 HEEE-064 / 4.0 mm²
- 4 HEEE-040 / $1.5~\mathrm{mm^2}$
- 5 HEEE-040 / 2.5 mm²

HE-006 inserts

INSERTS FOR H6B HOOD/HOUSING

500V MAX. 16A

6+⊕

Dimension (mm)	Туре	Part Number	
		Male insert	Female insert
Screw terminal			
	HE-006-M	T 2 04 006 2101-000	
	HE-006-F		T 2 04 006 2201-000
Spring terminal			
	HE-006-MS	T 2 04 006 3101-000	
The same of the sa	HE-006-FS		T 2 04 006 3201-000
Crimp terminal (Order crimp contacts separately)		
	HE-006-MC	T 2 04 006 4101-000	
Man Man	HE-006-FC		T 2 04 006 4201-000
Spring terminal (Two terminals per contact)			
	HE-006-MSS	T 2 04 006 5101-000	
A SOUTH THE PARTY OF THE PARTY	HE-006-FSS		T 2 04 006 5201-000

Tech data Material:	16A Male crimp contacts	Wire gauge		Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
copper alloy	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
resistance: ≤1mΩ Terminal: crimp connection CEM/Male	erminal: rimp connection	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	

Distance for contact max. 21mm				Contact arrangement view from termination side	Panel cut-out for inserts for use without hoods/housings		
44.00 77.00 Mm m m m m m m m m m m m m m m m m m	HE HES/HEC HESS	a 18 19 34	b 33 34 49	c 18 19 32	d 35 36 49	$ \begin{array}{c cccc} & & & & & & & & & & & & \\ & & & & & &$	44.00



HEE-010 inserts

INSERTS FOR H6B HOOD/HOUSING

500V MAX. 16A

10+⊕

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
	M_MX/10	HEE-010-M	T 2 05 010 2101-000	
	51.00	HEE-010-F		T 2 05 010 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
	44.00 44.00 88 89 99 99 99 99 99 99 99 99			

Tech data Material: copper alloy		Wire gaug	ge	Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000		
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	



HEEE-020 inserts

INSERTS FOR H6B HOOD/HOUSING

400V MAX. 16A

20+⊕

Dimensions (mm)		Туре	Part Number			
			Male insert	Female insert		
Crimp terminal (order crimp co	ntacts separately)					
	M 27.0	HEEE-020-M	T 2 05 020 2101-000			
	F 34.0	HEEE-020-F		T 2 05 020 2201-000		
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings					
(±	7 38					

Tech data Material: copper alloy 16A Male crimp contacts		Wire gauge		Strip- ping	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
				length					
Contact	7.50 25.00				_		_		
resistance: ≤1mΩ		mm ²	AWG	mm	Туре	Part Number	Type	Part Number	
Terminal:		0.14-0.37	26-22	7.5	CEM-0.3	T 2 03 000 1002-000	DEM-0.3	T 2 03 001 1002-000	
crimp connection CEM/Male		0.5	20	7.5	CEM-0.5	T 2 03 000 1005-000	DEM-0.5	T 2 03 001 1005-000	
CEM/ Male		0.75	18	7.5	CEM-0.75	T 2 03 000 1008-000	DEM-0.75	T 2 03 001 1008-000	
		1.0	18	7.5	CEM-1.0	T 2 03 000 1010-000	DEM-1.0	T 2 03 001 1010-000	
		1.5	16	7.5	CEM-1.5	T 2 03 000 1015-000	DEM-1.5	T 2 03 001 1015-000	
		2.5	14	7.5	CEM-2.5	T 2 03 000 1025-000	DEM-2.5	T 2 03 001 1025-000	
		4.0	12	7.5	CEM-4.0	T 2 03 000 1040-000	DEM-4.0	T 2 03 001 1040-000	
CEF/Female	16A Female	0.14-0.37	26-22	7.5	CEF-0.3	T 2 03 000 2002-000	DEF-0.3	T 2 03 001 2002-000	
and the same of	crimp contacts	0.5	20	7.5	CEF-0.5	T 2 03 000 2005-000	DEF-0.5	T 2 03 001 2005-000	
		0.75	18	7.5	CEF-0.75	T 2 03 000 2008-000	DEF-0.75	T 2 03 001 2008-000	
	7.50	1.0	18	7.5	CEF-1.0	T 2 03 000 2010-000	DEF-1.0	T 2 03 001 2010-000	
	-	1.5	16	7.5	CEF-1.5	T 2 03 000 2015-000	DEF-1.5	T 2 03 001 2015-000	
		2.5	14	7.5	CEF-2.5	T 2 03 000 2025-000	DEF-2.5	T 2 03 001 2025-000	
		4.0	12	7.5	CEF-4.0	T 2 03 000 2040-000	DEF-4.0	T 2 03 001 2040-000	



H6B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M20 M25	PG16 PG21	H6B-TS-PG16 H6B-TS-PG21 H6B-TS-M20 H6B-TS-M25	T 1 31 006 0116-000 T 1 31 006 0121-000 T 1 31 006 0120-000 T 1 31 006 0125-000
	High construction	M20 M25 M32	PG21 PG29	H6B-TSH-PG21 H6B-TSH-PG29 H6B-TSH-M20 H6B-TSH-M25 H6B-TSH-M32	T 1 33 006 0121-000 T 1 33 006 0129-000 T 1 33 006 0120-000 T 1 33 006 0125-000 T 1 33 006 0132-000
Hood: Top entry				I	
	Low construction	M20 M25	PG16 PG21	H6B-TG-PG16 H6B-TG-PG21 H6B-TG-M20 H6B-TG-M25	T 1 32 006 0116-000 T 1 32 006 0121-000 T 1 32 006 0120-000 T 1 32 006 0125-000
	High construction	M20 M25 M32	PG21 PG29	H6B-TGH-PG21 H6B-TGH-PG29 H6B-TGH-M20 H6B-TGH-M25 H6B-TGH-M32	T 1 34 006 0121-000 T 1 34 006 0129-000 T 1 34 006 0120-000 T 1 34 006 0125-000 T 1 34 006 0132-000
Cable-to-cable hoc	od				
	Construction H Low 62.5 Hight 74.5	M20 M25 M20 M25 M32	PG16 PG21 PG29	H6B-TBFS-PG16 H6B-TBFS-M20 H6B-TBFS-M25 H6B-TBFHS-PG21 H6B-TBFHS-PG29 H6B-TBFHS-M20 H6B-TBFHS-M25 H6B-TBFHS-M32	T 1 73 006 2116-000 T 1 73 006 2120-000 T 1 73 006 2125-000 T 1 77 006 2121-000 T 1 77 006 2129-000 T 1 77 006 2120-000 T 1 77 006 2125-000 T 1 77 006 2132-000
Protection covers f	or hoods				
	71.5 200 3			H6B-KDTP	T 1 01 006 1400-000



H6B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Bulkhead mounte	d					
	7 700 Add 22.3 48.5 7				H6B-AGS	T 1 50 006 2000-000
	With protection cover				H6B-ADS	T 1 51 006 2100-000
Surface mounted:	: Side entry				1	
	Construction A B H Low 40 52 56 Hight 45 57 74	1 Side entry 2 Side entry 2 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25 H6B-SGRS-2PG16 H6B-SGRS-2PG21 H6B-SGRS-2M20 H6B-SGRS-2M25 H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M32 H6B-SGRHS-M32 H6B-SGRHS-2PG21 H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2PG29 H6B-SGRHS-2M32	T 1 61 006 2116-000 T 1 61 006 2121-000 T 1 61 006 2120-000 T 1 61 006 2125-000 T 1 61 006 2216-000 T 1 61 006 2221-000 T 1 61 006 2221-000 T 1 61 006 2225-000 T 1 65 006 2121-000 T 1 65 006 2129-000 T 1 65 006 2125-000 T 1 65 006 2125-000 T 1 65 006 2221-000 T 1 65 006 2225-000 T 1 65 006 2225-000 T 1 65 006 2232-000
	With protection cover Construction A B H Low 40 52 56 Hight 45 57 74	1 Side entry 2 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25 H6B-SDRS-2PG16 H6B-SDRS-2PG21 H6B-SDRS-2M20 H6B-SDRS-2M25 H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M32 H6B-SDRHS-M32 H6B-SDRHS-2PG21 H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2PG29	T 1 62 006 2116-000 T 1 62 006 2121-000 T 1 62 006 2120-000 T 1 62 006 2125-000 T 1 62 006 2216-000 T 1 62 006 2221-000 T 1 62 006 2221-000 T 1 62 006 2225-000 T 1 66 006 2121-000 T 1 66 006 2129-000 T 1 66 006 2125-000 T 1 66 006 2125-000 T 1 66 006 2221-000 T 1 66 006 2225-000 T 1 66 006 2225-000 T 1 66 006 2232-000



HIP.6/16, HIP-K.6/16, EMV-K.6/16 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood				IP 68 / IP 69 K
Description	Metr.	PG	Type	Part Number

Description		Metr.	PG	Туре	Part Number
Hood: Side entry					
	M/PG	M25	16	HIP HIP.6/16.STS.1.16.G HIP.6/16.STS.1.M25.G	1-1102631-5 0-1106425-2
	82 96 53	M25	16 21	HIP-K HIP-K.6/16.STS.1.16.G HIP-K.6/16.STS.1.21.G HIP-K.6/16.STS.1.M25.G	2-1102631-5 2-1102633-5 0-1106425-4
		M25	16	EMV-K EMV-K.6/16.STS.1.16.G EMV-K.6/16.STS.1.M25.G	4-1102704-5 0-1106416-4
Hood: Top entry					
		M32	16	HIP HIP.6/16.STO.1.16.G HIP.6/16.STO.1.M32.G	1-1102635-5 0-1106425-1
MPG PG		M25 M32	16 21	HIP-K HIP-K.6/16.STO.1.16.G HIP-K.6/16.STO.1.21.G HIP-K.6/16.STO.1.M25.G HIP-K.6/16.STO.1.M32.G	2-1102635-5 2-1102637-5 0-1106425-6 0-1106425-3
		M32	13 16 21	EMV-K EMV-K.6/16.STO.1.13.G EMV-K.6/16.STO.1.16.G EMV-K.6/16.STO.1.21.G EMV-K.6/16.STO.1.M32.G	0-1108719-1 4-1102706-5 4-1102707-5 0-1106416-3
Surface mounted	housing: Bottom entry				
	70 <u>94.51</u> 32 32 56			HIP HIP.6/16.AG	1-1102638-5
	M4 32 32 36			HIP-K HIP-K.6/16.AG	2-1102638-5
	52 70			EMV-K EMV-K.6/16.AG	4-1102710-5
	M6x20 22			HIP	1 1100000 5
	96 43 60 Banal Sut out			HIP.6/16.AG.M6	1-1102606-5
1	Panel cut-out			HIP-K.6/16.AG.M6	2-1102606-5
	36 43 52 79			EMV-K.6/16.AG.M6	4-1102712-5



HIP.6/16, HIP-K.6/16, EMV-K.6/16 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Surface mounted	housing: Side entry				
		2xM32	16 2×16	HIP HIP.6/16.SG.1.16.G HIP.6/16.SG.2.16.G HIP.6/16.SG.2.M32.G	1-1102604-5 1-1102605-5 0-1106424-1
	M/PG 80 80 70 65.5. 8 45	2xM25 2xM32	16 2x16	HIP-K HIP-K.6/16.SG.1.16.G HIP-K.6/16.SG.2.16.G HIP-K.6/16.SG.2.M25.G HIP-K.6/16.SG.2.M32.G	2-1102604-5 2-1102605-5 0-1102942-1 0-1106424-2
	90 56	2xM25 2xM32	16 2x16	EMV-K EMV-K.6/16.SG.1.16.G EMV-K.6/16.SG.2.16.G EMV-K.6/16.SG.2.M25.G EMV-K.6/16.SG.2.M32.G	5-1102708-5 5-1102709-5 0-1106413-3 0-1106415-2
Protective covers	for housings				
	M6x30			HIP HIP/EMV.6/16.SKB	3-1106201-5
	19			HIP-K HIP-K/EMV-K.6/16.SKB	4-1106201-5
	T 96 T T 53			EMV-K HIP-K/EMV-K.6/16.SKB	4-1106201-5



HE-010 inserts

INSERTS FOR H10B HOOD/HOUSING

500V MAX. 16A

10+⊕

Dimension (mm)	Туре	Part Number	
		Male insert	Female insert
Screw terminal	·	·	
	HE-010-M	T 2 04 010 2101-000	
The state of the s	HE-010-F		T 2 04 010 2201-000
Spring terminal	,		
	HE-010-MS	T 2 04 010 3101-000	
Personal Personal	HE-010-FS		T 2 04 010 3201-000
Crimp terminal (Order crimp contacts se	eparately)		
	HE-010-MC	T 2 04 010 4101-000	
Amin Amin	HE-010-FC		T 2 04 010 4201-000
Spring terminal (Two terminals per cont	act)		
	HE-010-MSS	T 2 04 010 5101-000	
A STATE OF THE STA	HE-010-FSS		T 2 04 010 5201-000

Tech data Material: copper alloy	16A Male crimp contacts	Wire gauge		Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14 12	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14 12	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	

Distance for contact max. 21mm						Contact arrangement view from termination side	Panel cut-out for inserts for use without hoods/housings
7.00 T.00 T.00 T.00 T.00 T.00 T.00 T.00	HE HES/HEC HESS	a 18 19 34	b 33 34 49	c 18 19 32	d 35 36 49	(♣) (♣) (♣) (♣) (♣) (♣) (♣) (♣) (♣) (♣)	57.00 57.00 88 88 89 99 99 99 99 99 99 99



HEE-018 inserts

INSERTS FOR H10B HOOD/HOUSING

500V MAX. 16A

18+⊕

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Crimp terminal (order crimp cor	ntacts separately)				
	97.00 97.00	HEE-018-M	T 2 05 018 2101-000		
	F 54.60 34.60	HEE-018-F		T 2 05 018 2201-000	
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings				
(#) (#) (#) (#) (#) (#) (#) (#) (#) (#)	57.00 67				

Tech data Material: copper alloy	16A Male crimp contacts	Wire gauge tacts			Crimp cor	rimp contacts, silver-plated		Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0	26-22 20 18 18	7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000		
		2.5	14 12	7.5 7.5	CEM-2.5 CEM-4.0	T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-2.5 DEM-4.0	T 2 03 001 1025-000 T 2 03 001 1040-000		
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000		



HEEE-032 inserts

INSERTS FOR H10B HOOD/HOUSING

400V MAX. 16A

32+⊕

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
The state of the s	M	HEEE-032-M	T 2 05 032 3101-000	
	F 34.2			T 2 05 032 3201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
M F	93.3 7 51.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			

Tech data Material: copper alloy Contact	16A Male crimp contacts	Wire gaug	ge	Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated	
resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000



H10B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M20 M25	PG16 PG21	H10B-TS-PG16 H10B-TS-PG21 H10B-TS-M20 H10B-TS-M25	T 1 21 010 0116-000 T 1 21 010 0121-000 T 1 21 010 0120-000 T 1 21 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TSH-PG21 H10B-TSH-PG29 H10B-TSH-M20 H10B-TSH-M25 H10B-TSH-M32	T 1 23 010 0121-000 T 1 23 010 0129-000 T 1 23 010 0120-000 T 1 23 010 0125-000 T 1 23 010 0132-000
Hood: Top entry					
	Low construction	M20 M25	PG16 PG21	H10B-TG-PG16 H10B-TG-PG21 H10B-TG-M20 H10B-TG-M25	T 1 22 010 0116-000 T 1 22 010 0121-000 T 1 22 010 0120-000 T 1 22 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TGH-PG21 H10B-TGH-PG29 H10B-TGH-M20 H10B-TGH-M25 H10B-TGH-M32	T 1 24 010 0121-000 T 1 24 010 0129-000 T 1 24 010 0120-000 T 1 24 010 0125-000 T 1 24 010 0132-000
Cable-to-cable hoc	pd				
	Construction H Low 62.5 Hight 74.5	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBFS-PG16 H10B-TBFS-M20 H10B-TBFS-M25 H10B-TBFHS-PG21 H10B-TBFHS-PG29 H10B-TBFHS-M25 H10B-TBFHS-M32	T 1 71 010 1116-000 T 1 71 010 1120-000 T 1 71 010 1125-000 T 1 75 010 1121-000 T 1 75 010 1129-000 T 1 75 010 1125-000 T 1 75 010 1132-000
Protection covers f	or hoods				
	70.4			H10B-KDTP	T 1 01 010 1400-000
Housing protection	n cover				
	76.5			H10B-KDBP	T 1 01 010 2100-000



H10B with 2 levers on the hoods/housings

Dimensions (mm)	Metr.	PG	Туре	Part Number
Bulkhead mount	ed				
	52.0 62.0 63.0 024.1 12.0 43.5			H10B-AGS	T 1 41 010 1000-000
Surface mounted	l: Side entry				
42	1. Side entry Low construction	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25	T 1 44 010 1116-000 T 1 44 010 1121-000 T 1 44 010 1120-000 T 1 44 010 1125-000 T 1 44 010 1216-000 T 1 44 010 1221-000 T 1 44 010 1220-000 T 1 44 010 1225-000
	1360 entry 1360 entry 2 Side e	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H10B-SGRHS-PG21 H10B-SGRHS-PG29 H10B-SGRHS-M25 H10B-SGRHS-M32 H10B-SGRHS-2PG21 H10B-SGRHS-2PG29 H10B-SGRHS-2M25 H10B-SGRHS-2M32	T 1 47 010 1121-000 T 1 47 010 1129-000 T 1 47 010 1125-000 T 1 47 010 1132-000 T 1 47 010 1221-000 T 1 47 010 1229-000 T 1 47 010 1225-000 T 1 47 010 1232-000
Side entry housir	ng with two levers				
0	Low construction	M20 M25	PG16 PG21	H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25	T 1 25 010 3116-000 T 1 25 010 3121-000 T 1 25 010 3120-000 T 1 25 010 3125-000
Story.	Construction H Low 60 Hight 72	M25 M32	PG21 PG29	H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32	T 1 27 010 3121-000 T 1 27 010 3129-000 T 1 27 010 3125-000 T 1 27 010 3132-000
Top entry housin	g with two levers				
J.o.	Construction H Low 60	M20 M25	PG16 PG21 PG21 PG29	H10B-TGBS-PG16 H10B-TGBS-PG21 H10B-TGBS-M20 H10B-TGBS-M25 H10B-TGBHS-PG21 H10B-TGBHS-PG29	T 1 26 010 3116-000 T 1 26 010 3121-000 T 1 26 010 3120-000 T 1 26 010 3125-000 T 1 28 010 3121-000 T 1 28 010 3129-000
	Hight 72	M25 M32		H10B-TGBHS-M25 H10B-TGBHS-M32	T 1 28 010 3125-000 T 1 28 010 3132-000
Bulkhead mount	ed with 4 bolts	1	-	1	1
	With protection cover			H10B-AD-BO	T 1 43 010 0000-000
	1 Side entry 2 Side entry Low construction	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H10B-SDR-BO-PG16 H10B-SDR-BO-PG21 H10B-SDR-BO-M20 H10B-SDR-BO-M25 H10B-SDR-BO-2PG16 H10B-SDR-BO-2PG21 H10B-SDR-BO-2M20 H10B-SDR-BO-2M25	T 1 46 010 0116-000 T 1 46 010 0121-000 T 1 46 010 0120-000 T 1 46 010 0125-000 T 1 46 010 0216-000 T 1 46 010 0221-000 T 1 46 010 0220-000 T 1 46 010 0225-000
	Construction A B C D F G H Low 82 94 40 52 22 67 54 Hight 82 94 45 57 20 65 74	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H10B-SDRH-BO-PG21 H10B-SDRH-BO-PG29 H10B-SDRH-BO-M25 H10B-SDRH-BO-M32 H10B-SDRH-BO-2PG21 H10B-SDRH-BO-2PG29 H10B-SDRH-BO-2M25 H10B-SDRH-BO-2M32	T 1 49 010 0121-000 T 1 49 010 0129-000 T 1 49 010 0125-000 T 1 49 010 0132-000 T 1 49 010 0221-000 T 1 49 010 0229-000 T 1 49 010 0225-000 T 1 49 010 0232-000



H10B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M20 M25	PG16 PG21	H10B-TS-RO-PG16 H10B-TS-RO-PG21 H10B-TS-RO-M20 H10B-TS-RO-M25	T 1 31 010 0116-000 T 1 31 010 0121-000 T 1 31 010 0120-000 T 1 31 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TSH-RO-PG21 H10B-TSH-RO-PG29 H10B-TSH-RO-M20 H10B-TSH-RO-M25 H10B-TSH-RO-M32	T 1 33 010 0121-000 T 1 33 010 0129-000 T 1 33 010 0120-000 T 1 33 010 0125-000 T 1 33 010 0132-000
Hood: Top entry					
	Low construction	M20 M25	PG16 PG21	H10B-TG-RO-PG16 H10B-TG-RO-PG21 H10B-TG-RO-M20 H10B-TG-RO-M25	T 1 32 010 0116-000 T 1 32 010 0121-000 T 1 32 010 0120-000 T 1 32 010 0125-000
THE STATE OF THE S	High construction	M20 M25 M32	PG21 PG29	H10B-TGH-RO-PG21 H10B-TGH-RO-PG29 H10B-TGH-RO-M20 H10B-TGH-RO-M25 H10B-TGH-RO-M32	T 1 34 010 0121-000 T 1 34 010 0129-000 T 1 34 010 0120-000 T 1 34 010 0125-000 T 1 34 010 0132-000
Cable-to-cable hoc	pd				
	Construction H Low 62.5 Hight 74.5	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBF-LB-PG16 H10B-TBF-LB-M20 H10B-TBF-LB-M25 H10B-TBFH-LB-PG21 H10B-TBFH-LB-PG29 H10B-TBFH-LB-M25 H10B-TBFH-LB-M32	T 1 73 010 3116-000 T 1 73 010 3120-000 T 1 73 010 3125-000 T 1 77 010 3121-000 T 1 77 010 3129-000 T 1 77 010 3125-000 T 1 77 010 3132-000
Protection covers f	or hoods			I	1
N. C. S.				H10B-KDTP-LB	T 1 01 010 1500-000



H10B with 1 lever on the hoods/housings

Dimensions (mm	1)	Metr.	PG	Туре	Part Number
Bulkhead mount	ed				
	8			H10B-AG-LB	T 1 50 010 3000-000
	With protection cover			H10B-AD-LB H10B-ADM-LB	T 1 51 010 3000-000 T 1 51 010 3001-000
Surface mounted	: Side entry				
	2 side entry 2 side entry 2 side entry 2 for entry 2 side entry 4 for entry 2 for entry 2 for entry 4 for entry 5 for entry 5 for entry 4 for entry 5 for entry 5 for entry 5 for entry 6 for entry 7 for entry 6	M25 M25 M25 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H10B-SGR-LB-PG16 H10B-SGR-LB-PG21 H10B-SGR-LB-M20 H10B-SGR-LB-M25 H10B-SGR-LB-2PG16 H10B-SGR-LB-2PG21 H10B-SGR-LB-2M20 H10B-SGR-LB-2M25 H10B-SGRH-LB-PG21 H10B-SGRH-LB-M25 H10B-SGRH-LB-M25 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M32	T 1 61 010 3116-000 T 1 61 010 3121-000 T 1 61 010 3120-000 T 1 61 010 3125-000 T 1 61 010 3216-000 T 1 61 010 3221-000 T 1 61 010 3221-000 T 1 61 010 3225-000 T 1 65 010 3121-000 T 1 65 010 3125-000 T 1 65 010 3125-000 T 1 65 010 3125-000 T 1 65 010 3225-000 T 1 65 010 3232-000
	With protection cover Construction A B H	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H10B-SDR-LB-PG16 H10B-SDR-LB-PG21 H10B-SDR-LB-M20 H10B-SDR-LB-M25 H10B-SDR-LB-2PG16 H10B-SDR-LB-2PG21 H10B-SDR-LB-2M20 H10B-SDR-LB-2M25 H10B-SDRH-LB-PG21 H10B-SDRH-LB-M25 H10B-SDRH-LB-M25 H10B-SDRH-LB-M25 H10B-SDRH-LB-M32 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M32	T 1 62 010 3116-000 T 1 62 010 3121-000 T 1 62 010 3120-000 T 1 62 010 3125-000 T 1 62 010 3216-000 T 1 62 010 3221-000 T 1 62 010 3225-000 T 1 66 010 3125-000 T 1 66 010 3225-000 T 1 66 010 3232-000



HIP.10/24, HIP-K.10/24, EMV-K.10/24 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 68 / IP 69 K PG **Description** Metr. **Part Number Type** Hood: Side entry, Standard construction HIP 16 HIP.10/24.STS.1.16.G 1-1102640-5 21 HIP.10/24.STS.1.21.G 1-1102642-5 M25 HIP.10/24.STS.1.M25.G 0-1106436-2 HIP-K 21 HIP-K.10/24.STS.1.21.G 2-1102642-5 M25 HIP-K.10/24.STS.1.M25.G 0-1106436-4 HIP-K.10/24.STS.1.M32.G 0-1106436-6 M32 FMV-K EMV-K.10/24.STS.1.21.G 21 4-1102714-5 M25 EMV-K.10/24.STS.1.M25.G 0-1106427-3 M32 EMV-K.10/24.STS.1.M32.G 1-1106427-0 Hood: Top entry HIP 16 HIP.10/24.STO.1.16.G 1-1102644-5 M/PG HIP.10/24.STO.1.21.G 1-1102646-5 21 M25 0-1106436-1 HIP.10/24.STO.1.M25.G HIP-K 16 HIP-K.10/24.STO.1.16.G 2-1102644-5 M25 HIP-K.10/24.STO.1.M25.G 0-1106436-3 HIP-K.10/24.STO.1.M32.G 0-1106436-5 M32 **EMV-K** 21 EMV-K.10/24.STO.1.21.G 4-1102715-5 M25 EMV-K.10/24.STO.1.M25.G 0-1106427-4 Surface mounted housing: Bottom entry HIP HIP.10/24.AG 1-1102647-5 HIP-K HIP-K.10/24.AG 2-1102647-5 **EMV-K** EMV-K.10/24.AG 4-1102718-5



HIP.10/24, HIP-K.10/24, EMV-K.10/24 housings

HIP: Pressure-tight, silver-grey

 $\textbf{HIP-K:} \ \ \text{Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h$

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 68 / IP 69 K PG Metr. **Part Number Description Type** Surface mounted housing: Bottom entry HIP.10/24.AG.M6 1-1102612-5 HIP-K Panel cut-out HIP-K.10/24.AG.M6 2-1102612-5 EMV-K EMV-K.10/24.AG.M6 4-1102720-5 Surface mounted housing: Side entry HIP HIP.10/24.SG.1.21.G 21 1-1102610-5 2x21 HIP.10/24.SG.2.21.G 1-1102611-5 109 2xM32 HIP.10/24.SG.2.M32.G 0-1106435-1 HIP-K 21 HIP-K.10/24.SG.1.21.G 5-1102610-5 2x21 HIP-K.10/24.SG.2.21.G 2-1102611-5 FMV-K 21 EMV-K.10/24.SG.1.21.G 5-1102716-5 2x21 EMV-K.10/24.SG.2.21.G 4-1102717-5 2xM32 EMV-K.10/24.SG.2.M32.G 0-1106426-2 Protective covers for hoods and housing M6x30 HIP HIP/EMV.10/24.SKB 3-1106202-5 19 HIP-K/EMV-K ₿ 109 HIP-K/EMV-K.10/24.SKB 4-1106202-5 53



HE-016 inserts

INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

16+ 🖶

Dimension (mm)	Туре	Part Number	
		Male insert	Female insert
Screw terminal			
	HE-016-M	T 2 04 016 2101-000	
Assess Assess	HE-016-F		T 2 04 016 2201-000
Spring terminal			
A CONTRACTOR	HE-016-MS	T 2 04 016 3101-000	
	HE-016-FS		T 2 04 016 3201-000
Crimp terminal (Order crimp contacts se	eparately)		
	HE-016-MC	T 2 04 016 4101-000	
1118	HE-016-FC		T 2 04 016 4201-000
Spring terminal (Two terminals per cont	act)		
	HE-016-MSS	T 2 04 016 5101-000	
Marie Control	HE-016-FSS		T 2 04 016 5201-000

IOA COIItact								
Tech data Material: copper alloy	16A Male crimp contacts	Wire gau	e gauge Strip- ping length Crimp contacts, silver-plated		Crimp contacts, gold-plated			
Contact resistance: ≤1mΩ	750 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14 12	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000

Distance for contact ma	x. 21mm					Contact arrangement view from termination side	Panel cut-out for inserts for use without hoods/housings
79							77.59
		а	b	С	d	12 4 4 12 13 5 5 5 5 13	
	HE	18	33	18	35	14	
	HES/HEC	19	34	19	36	16 6 8 8 8 6 16	
84.50 34.00	HESS	34	49	32	49	(+ + + + + + + + + + + + + + + + + + + 	5.00 68.50



HEE-032 inserts

INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

32+⊕

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Crimp terminal (order crimp co	ntacts separately)				
A STATE OF THE PARTY OF THE PAR	77.50	HEE-032-M	T 2 05 032 2101-000		
	M.100	HEE-032-F		T 2 05 032 2201-000	
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings				
⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕	77.50				

Tech data Material: copper alloy Contact	Material: crimp contacts copper alloy		ge	Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated	
resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000



HEEE-040 inserts

INSERTS FOR H16B HOOD/HOUSING

500V MAX. 16A

40+⊕

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
S CONTRACTOR OF THE PARTY OF TH	M	HEEE-040-M	T 2 05 040 2101-000	
	F MAS SAS	HEEE-040-F		T 2 05 040 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
M F	68.5 68.5 77.5			

Tech data Material: copper alloy		Wire gaug	ge	Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated	
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000



HEEE-048 inserts

INSERTS FOR H16B HOOD/HOUSING

400V MAX. 16A

48+

Dimensions (mm)		Туре	Part Number			
			Male insert	Female insert		
Crimp terminal (order crimp co	ntacts separately)					
Sale Land	77.5 M	HEEE-048-F	T 2 05 048 2101-000			
	F MAD SAD	HEEE-048-F		T 2 05 048 2201-000		
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings					
	77.5					

Tech data Material: copper alloy	16A Male crimp contacts	Wire gaug	ge	Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated	
Contact resistance: ≤1mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000



H16B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number				
Hood: Side entry									
333	Low construction	M20 M25 M32	PG16 PG21	H16B-TS-PG16 H16B-TS-PG21 H16B-TS-M20 H16B-TS-M25 H16B-TS-M32	T 1 21 016 0116-000 T 1 21 016 0121-000 T 1 21 016 0120-000 T 1 21 016 0125-000 T 1 21 016 0132-000				
	High construction	M25 M32 M40	PG21 PG29	H16B-TSH-PG21 H16B-TSH-PG29 H16B-TSH-M25 H16B-TSH-M32 H16B-TSH-M40	T 1 23 016 0121-000 T 1 23 016 0129-000 T 1 23 006 0125-000 T 1 23 016 0132-000 T 1 23 016 0140-000				
Hood: Top entry			I	I					
	Low construction	M25 M32	PG16 PG21	H16B-TG-PG16 H16B-TG-PG21 H16B-TG-M25 H16B-TG-M32	T 1 22 016 0116-000 T 1 22 016 0121-000 T 1 22 016 0125-000 T 1 22 016 0132-000				
	High construction	M25 M32 M40	PG21 PG29	H16B-TGH-PG21 H16B-TGH-PG29 H16B-TGH-M25 H16B-TGH-M32 H16B-TGH-M40	T 1 24 016 0121-000 T 1 24 016 0129-000 T 1 24 016 0125-000 T 1 24 016 0132-000 T 1 24 016 0140-000				
Cable-to-cable hoc	pd			1					
	Construction H Low 62.5 Hight 74.5	M25 M32 M25 M32 M40	PG21 PG21 PG29	H16B-TBFS-PG21 H16B-TBFS-M25 H16B-TBFS-M32 H16B-TBFHS-PG21 H16B-TBFHS-PG29 H16B-TBFHS-M25 H16B-TBFHS-M32 H16B-TBFHS-M40	T 1 71 016 1121-000 T 1 71 016 1125-000 T 1 71 016 1132-000 T 1 75 016 1121-000 T 1 75 016 1129-000 T 1 75 016 1125-000 T 1 75 016 1132-000 T 1 75 016 1140-000				
Protection covers f	or hoods								
	\$ 300			H16B-KDTP	T 1 01 016 1400-000				
Housing protection	Housing protection cover								
0	39.00			H16B-KDBP	T 1 01 016 2100-000				



H16B with 2 levers on the hoods/housings

Dimensions (mm)	Metr.	PG	Туре	Part Number	
Bulkhead mounte	ed					
	12.00 13.00 14.00 12.00 13.00			H16B-AGS	T 1 41 016 1000-000	
Surface mounted	l: Side entry					
	1 Side entry 1 Sid	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 H16B-SGRHS-PG29 H16B-SGRHS-M25 H16B-SGRHS-M32 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2M25 H16B-SGRHS-2M32	T 1 44 016 1121-000 T 1 44 016 1125-000 T 1 44 016 1221-000 T 1 44 016 1225-000 T 1 47 016 1121-000 T 1 47 016 1125-000 T 1 47 016 1125-000 T 1 47 016 1132-000 T 1 47 016 1221-000 T 1 47 016 1221-000 T 1 47 016 1225-000 T 1 47 016 1232-000	
Side entry housir	ng with two levers		1	1		
	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25 H16B-TSBHS-PG21 H16B-TSBHS-PG29 H16B-TSBHS-M25 H16B-TSBHS-M32	T 1 25 016 3116-000 T 1 25 016 3121-000 T 1 25 016 3120-000 T 1 25 016 3125-000 T 1 27 016 3121-000 T 1 27 016 3129-000 T 1 27 016 3125-000 T 1 27 016 3132-000	
Top entry housin	g with two levers					
	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25 H16B-TGBHS-PG21 H16B-TGBHS-PG29 H16B-TGBHS-M25 H16B-TGBHS-M32	T 1 26 016 3116-000 T 1 26 016 3121-000 T 1 26 016 3120-000 T 1 26 016 3125-000 T 1 28 016 3121-000 T 1 28 016 3129-000 T 1 28 016 3125-000 T 1 28 016 3132-000	
Bulkhead mounte	ed with 4 bolts		1	I		
	Side entry 2 Side entry 1 Side entry 2 Side entry 3 Side entry 2 Side entry 2 Side entry 2 Side entry 2 Side entry 3 Side entry 2 Side entry 3 Side entry 3 Side entry 2 Side entry 3 Sid	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25 H16B-SDRH-BO-PG21 H16B-SDRH-BO-PG29 H16B-SDRH-BO-M25 H16B-SDRH-BO-M32 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG29 H16B-SDRH-BO-2M25 H16B-SDRH-BO-2M32	T 1 43 016 0000-000 T 1 46 016 0121-000 T 1 46 016 0125-000 T 1 46 016 0221-000 T 1 46 016 0225-000 T 1 49 016 0121-000 T 1 49 016 0125-000 T 1 49 016 0125-000 T 1 49 016 0221-000 T 1 49 016 0221-000 T 1 49 016 0225-000 T 1 49 016 0225-000 T 1 49 016 0225-000 T 1 49 016 0232-000	



H16B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M25 M32	PG21 PG29	H16B-TS-RO-PG21 H16B-TS-RO-PG29 H16B-TS-RO-M25 H16B-TS-RO-M32	T 1 31 016 0121-000 T 1 31 016 0129-000 T 1 31 016 0125-000 T 1 31 016 0132-000
	High construction	M25 M32 M40	PG21 PG29	H16B-TSH-RO-PG21 H16B-TSH-RO-PG29 H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40	T 1 33 016 0121-000 T 1 33 016 0129-000 T 1 33 016 0125-000 T 1 33 016 0132-000 T 1 33 016 0140-000
Hood: Top entry					
	Low construction	M25 M32	PG21 PG29	H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25 H16B-TG-RO-M32	T 1 32 016 0121-000 T 1 32 016 0129-000 T 1 32 016 0125-000 T 1 32 016 0132-000
	High construction	M25 M32 M40	PG21 PG29	H16B-TGH-RO-PG21 H16B-TGH-RO-PG29 H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	T 1 34 016 0121-000 T 1 34 016 0129-000 T 1 34 016 0125-000 T 1 34 016 0132-000 T 1 34 016 0140-000
Cable-to-cable hoc	od				
	Construction H Low 62.5 Hight 74.5	M25 M32 M25 M32 M40	PG21 PG29 PG21 PG29	H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29 H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40	T 1 73 016 3121-000 T 1 73 016 3129-000 T 1 73 016 3125-000 T 1 73 016 3132-000 T 1 77 016 3121-000 T 1 77 016 3129-000 T 1 77 016 3125-000 T 1 77 016 3132-000 T 1 77 016 3140-000
Protection covers f	l for hoods	1 1 1 7 0		11200 10111 10 1140	. 1 // 010 3140 000
				H16B-KDTP-LB	T 1 01 016 1500-000



H16B with 1 lever on the hoods/housings

Dimensions (mm)			Metr.	PG	Туре	Part Number
Bulkhead mount	red					
	103.00 44.00 103				H16B-AG-LB	T 1 50 016 3000-000
	With protection cover				H16B-AD-LB	T 1 51 016 3000-000
Surface mounted	d: Side entry					
	Construction H Low 56 Hight 81	entry 1 Side e	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SGR-LB-PG16 H16B-SGR-LB-PG21 H16B-SGR-LB-M20 H16B-SGR-LB-M25 H16B-SGR-LB-2PG16 H16B-SGR-LB-2M20 H16B-SGR-LB-2M20 H16B-SGR-LB-2M25 H16B-SGRH-LB-PG21 H16B-SGRH-LB-PG29 H16B-SGRH-LB-M35 H16B-SGRH-LB-M32 H16B-SGRH-LB-M32 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2M35 H16B-SGRH-LB-2M32	T 1 61 016 3116-000 T 1 61 016 3121-000 T 1 61 016 3120-000 T 1 61 016 3125-000 T 1 61 016 3216-000 T 1 61 016 3221-000 T 1 61 016 3221-000 T 1 61 016 3225-000 T 1 65 016 3125-000 T 1 65 016 3225-000 T 1 65 016 3221-000 T 1 65 016 3225-000 T 1 65 016 3225-000 T 1 65 016 3225-000 T 1 65 016 3232-000
	With protection cover Construction H Low 56 Hight 81	2 Side entry 1 Side e	M20 M25 M20 M25 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H16B-SDR-LB-PG16 H16B-SDR-LB-PG21 H16B-SDR-LB-M20 H16B-SDR-LB-M25 H16B-SDR-LB-2PG16 H16B-SDR-LB-2M20 H16B-SDR-LB-2M25 H16B-SDR-LB-PG21 H16B-SDRH-LB-PG29 H16B-SDRH-LB-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M32 H16B-SDRH-LB-2M32	T 1 62 016 3116-000 T 1 62 016 3121-000 T 1 62 016 3120-000 T 1 62 016 3125-000 T 1 62 016 3216-000 T 1 62 016 3221-000 T 1 62 016 3225-000 T 1 66 016 3121-000 T 1 66 016 3121-000 T 1 66 016 3125-000 T 1 66 016 3221-000 T 1 66 016 3221-000 T 1 66 016 3221-000 T 1 66 016 3225-000



HIP.16/40, HIP-K.16/40, EMV-K.16/40 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 68 / IP 69 K PG Metr. **Part Number Description Type** Hood: Side entry HIP HIP.16/40.STS.1.21.G 1-1102649-5 29 HIP.16/40.STS.1.29.G 1-1102651-5 0-1106454-2 M32 HIP.16/40.STS.1.M32.G HIP-K 29 HIP-K.16/40.STS.1.29.G 2-1102651-5 M32 HIP-K.16/40.STS.1.M32.G 0-1106444-2 **EMV-K** EMV-K.16/40.STS.1.29.G 4-1102723-5 29 M32 EMV-K.16/40.STS.1.M32.G 0-1106446-4 21 EMV-K.16/40.STS.1.21.G 4-1102722-5 **Hood:** Top entry HIP.16/40.STO.1.21.G 21 1-1102653-5 29 HIP.16/40.STO.1.29.G 1-1102655-5 M32 HIP.16/40.STO.1.M32.G 0-1106454-1 HIP-K HIP-K.16/40.STO.2.21.G 0-1108534-1 21 29 HIP-K.16/40.STO.1.29.G 2-1102655-5 HIP-K.16/40.STO.1.M32.G 0-1106444-1 M32 **EMV-K** EMV-K.16/40.STO.1.29.G 29 4-1102725-5 M32 EMV-K.16/40.STO.1.M32.G 0-1106446-3 Surface mounted housing: Bottom entry ø4.5 HIP.16/40.AG 1-1102656-5 HIP-K Panel cut-out HIP-K.16/40.AG 2-1102656-5 EMV-K EMV-K.16/40.AG 4-1102728-5 HIP.16/40.AG.M6 1-1102618-5 HIP-K HIP-K.16/40.AG.M6 2-1102618-5 Panel cut-out EMV-K EMV-K.16/40.AG.M6 4-1102730-5



HIP.16/40, HIP-K.16/40, EMV-K.16/40 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar

IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Surface mounted	housing: Side entry				
				HIP	
			21	HIP.16/40.SG.1.21.G	1-1102616-5
			2x21	HIP.16/40.SG.2.21.G	1-1102617-5
	100.5	2xM32		HIP.16/40.SG.2.M32.G	0-1106453-1
	129.5			HIP-K	
	M/PG 8		21	HIP-K.16/40.SG.1.21.G	5-1102616-5
M .			2x21	HIP-K.16/40.SG.2.21.G	2-1102617-5
	105.5 05.5 45 123.5 56	2xM32		HIP-K.16/40.SG.2.M32.G	0-1106443-1
				EMV-K	
			21	EMV-K.16/40.SG.1.21.Z	4-1102726-5
			2x21	EMV-K.16/40.SG.2.21.Z	4-1102727-5
		2xM32		EMV-K.16/40.SG.2.M32.G	0-1106445-2
Protective covers	for housings				
				HIP	
	M6x30			HIP/EMV.16/40.SKB	3-1106203-5
and,	129.5			HIP-K	
-	53			HIP-K.16/40.SKB	4-1106203-5



HE-024 inserts

INSERTS FOR H24B HOOD/HOUSING

500V MAX. 16A

24+ 🖶

Dimension (mm)	Туре	Part Number		
		Male insert	Female insert	
Screw terminal				
A Company of the second	HE-024-M	T 2 04 024 2101-000		
Secretary Descended	HE-024-F		T 2 04 024 2201-000	
Spring terminal	·			
	HE-024-MS	T 2 04 024 3101-000		
	HE-024-FS		T 2 04 024 3201-000	
Crimp terminal (Order crimp contacts sep	arately)			
The state of the state of the	HE-024-MC	T 2 04 024 4101-000		
Mark Service	HE-024-FC		T 2 04 024 4201-000	
Spring terminal (Two terminals per contac	t)			
	HE-024-MSS	T 2 04 024 5101-000		
	HE-024-FSS		T 2 04 024 5201-000	

Tech data Material: copper alloy	16A Male crimp contacts	Wire gaug	ge	Strip- ping length	ing		Crimp contacts, gold-plated		
Contact resistance: $\leq 1 \text{m}\Omega$	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000	
		4.0	12	7.5	CEM-4.0	T 2 03 000 1040-000	DEM-4.0	T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	



HEE-046 inserts

INSERTS FOR H24B HOOD/HOUSING

500V MAX. 16A

46+⊕

Dimensions (mm)	Туре	Part Number		
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
A STATE OF THE PARTY OF THE PAR		HEE-046-M	T 2 05 046 2101-000	
		HEE-046-F		T 2 05 046 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
(\$\Phi\$ (\$\phi\$) (\$\	55.00			

Tech data Material: copper alloy Contact	16A Male crimp contacts	Wire gaug	ge	Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	



HEEE-064 inserts

INSERTS FOR H24B HOOD/HOUSING

500V MAX. 16A

64+⊕

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
104.0		HEEE-064-M	T 2 05 064 3101-000	
	M3:40			T 2 05 064 3201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	104			

Tech data Material:	16A Male crimp contacts	Wire gaug	ge	Strip- ping	.		Crimp contacts, gold-plated		
copper alloy	1		le						
Contact resistance: ≤1mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection		0.14-0.37	26-22	7.5 7.5	CEM-0.3 CEM-0.5	T 2 03 000 1002-000 T 2 03 000 1005-000	DEM-0.3 DEM-0.5	T 2 03 001 1002-000 T 2 03 001 1005-000	
CEM/Male		0.75	18 18	7.5 7.5	CEM-0.75	T 2 03 000 1008-000 T 2 03 000 1010-000	DEM-0.75 DEM-1.0	T 2 03 001 1008-000 T 2 03 001 1010-000	
		1.5 2.5 4.0	16 14 12	7.5 7.5 7.5	CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37	26-22	7.5 7.5	CEF-0.3 CEF-0.5	T 2 03 000 2002-000 T 2 03 000 2005-000	DEF-0.3 DEF-0.5	T 2 03 001 2002-000 T 2 03 001 2005-000	
	7.59	0.75 1.0 1.5 2.5	18 18 16 14	7.5 7.5 7.5 7.5	CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5	T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000	DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5	T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000	
		4.0	12	7.5	CEF-4.0	T 2 03 000 2040-000	DEF-4.0	T 2 03 001 2040-000	



HEEE-072 inserts

INSERTS FOR H24B HOOD/HOUSING

400V MAX. 16A

72+🖶

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
	194.0 27.0 37.0 194.0 19	HEEE-072-M	T 2 05 072 2101-000	
	F HID WAS AND	HEEE-072-F		T 2 05 072 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
	104 104 7, 98			

Tech data Material: copper alloy	16A Male crimp contacts	Wire gau	ge	Strip- ping length Crimp contacts, silver-plated		Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000
CEF/Female	16A Female crimp contacts	4.0 0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 1040-000 T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 1040-000 T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000



H24B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M25 M32	PG16 PG21	H24B-TS-PG16 H24B-TS-PG21 H24B-TS-M25 H24B-TS-M32	T 1 21 024 0116-000 T 1 21 024 0121-000 T 1 21 024 0125-000 T 1 21 024 0132-000
	High construction	M25 M32 M40	PG21 PG29	H24B-TSH-PG21 H24B-TSH-PG29 H24B-TSH-M25 H24B-TSH-M32 H24B-TSH-M40	T 1 23 024 0121-000 T 1 23 024 0129-000 T 1 23 024 0125-000 T 1 23 024 0132-000 T 1 23 024 0140-000
Hood: Top entry					
	Low construction	M25 M32	PG16 PG21	H24B-TG-PG16 H24B-TG-PG21 H24B-TG-M25 H24B-TG-M32	T 1 22 024 0116-000 T 1 22 024 0121-000 T 1 22 024 0125-000 T 1 22 024 0132-000
	High construction	M25 M32 M40	PG21 PG29	H24B-TGH-PG21 H24B-TGH-PG29 H24B-TGH-M25 H24B-TGH-M32 H24B-TGH-M40	T 1 24 024 0121-000 T 1 24 024 0129-000 T 1 24 024 0125-000 T 1 24 024 0132-000 T 1 24 024 0140-000
Cable-to-cable hoo	pd	ı		1	
	Construction H Low 62.5 Hight 78.5	M25 M32 M25 M32 M40	PG21 PG21 PG29	H24B-TBFS-PG21 H24B-TBFS-M25 H24B-TBFS-M32 H24B-TBFHS-PG21 H24B-TBFHS-PG29 H24B-TBFHS-M25 H24B-TBFHS-M32 H24B-TBFHS-M40	T 1 71 024 1121-000 T 1 71 024 1125-000 T 1 71 024 1132-000 T 1 75 024 1121-000 T 1 75 024 1129-000 T 1 75 024 1125-000 T 1 75 024 1132-000 T 1 75 024 1140-000
Protection covers f	or hoods				
Con the second	30.00			H24B-KDTP	T 1 01 024 1400-000
Housing protection	n cover				
10	99.00			H24B-KDBP	T 1 01 024 2100-000



H24B with 2 levers on the hoods/housings

Dimensions (mn	1)	Metr.	PG	Туре	Part Number
Bulkhead mount	ed				
	1000 AS			H24B-AGS	T 1 41 024 1000-000
Surface mounted	d: Side entry				
	1 Side entry 2 Side Low construction and the state of the	M25 M25	PG21 PG21	H24B-SGRS-PG21 H24B-SGRS-M25 H24B-SGRS-2PG21 H24B-SGRS-2M25	T 1 44 024 1121-000 T 1 44 024 1125-000 T 1 44 024 1221-000 T 1 44 024 1225-000
	2 2 3 56 entry	M25	PG21 PG29	H24B-SGRHS-PG21 H24B-SGRHS-PG29 H24B-SGRHS-M25	T 1 47 024 1121-000 T 1 47 024 1129-000 T 1 47 024 1125-000
	Construction H Low 56 Hight 81	M32 M25 M32	PG21 PG29	H24B-SGRHS-M32 H24B-SGRHS-2PG21 H24B-SGRHS-2PG29 H24B-SGRHS-2M25 H24B-SGRHS-2M32	T 1 47 024 1132-000 T 1 47 024 1221-000 T 1 47 024 1229-000 T 1 47 024 1225-000 T 1 47 024 1232-000
Side entry housi	ng with two levers				
0	Low construction	M20 M25	PG16 PG21	H24B-TSBS-PG16 H24B-TSBS-PG21 H24B-TSBS-M20 H24B-TSBS-M25	T 1 25 024 3116-000 T 1 25 024 3121-000 T 1 25 024 3120-000 T 1 25 024 3125-000
Sec. 63	Construction H Low 60 Hight 76	M25 M32	PG21 PG29	H24B-TSBHS-PG21 H24B-TSBHS-PG29 H24B-TSBHS-M25 H24B-TSBHS-M32	T 1 27 024 3121-000 T 1 27 024 3129-000 T 1 27 024 3125-000 T 1 27 024 3132-000
Top entry housin	ng with two levers				
	Low continuction	M20 M25	PG16 PG21	H24B-TGBS-PG16 H24B-TGBS-PG21 H24B-TGBS-M20 H24B-TGBS-M25	T 1 26 024 3116-000 T 1 26 024 3121-000 T 1 26 024 3120-000 T 1 26 024 3125-000
500 3	Construction H Low 60 Hight 76	M25 M32	PG21 PG29	H24B-TGBHS-PG21 H24B-TGBHS-PG29 H24B-TGBHS-M25 H24B-TGBHS-M32	T 1 28 024 3121-000 T 1 28 024 3129-000 T 1 28 024 3125-000 T 1 28 024 3132-000
Bulkhead mount	ed with 4 bolts				
	With protection cover			H24B-AD-BO	T 1 43 024 0000-000
	1 Side entry 2 Side entry Low construction	M25 M25	PG21 PG21	H24B-SDR-BO-PG21 H24B-SDR-BO-M25 H24B-SDR-BO-2PG21 H24B-SDR-BO-2M25	T 1 46 024 0121-000 T 1 46 024 0125-000 T 1 46 024 0221-000 T 1 46 024 0225-000
	1 Side entry High coast	M25 M32	PG21 PG29 PG21	H24B-SDRH-BO-PG21 H24B-SDRH-BO-PG29 H24B-SDRH-BO-M25 H24B-SDRH-BO-M32 H24B-SDRH-BO-2PG21	T 1 49 024 0121-000 T 1 49 024 0129-000 T 1 49 024 0125-000 T 1 49 024 0132-000 T 1 49 024 0221-000
0	Construction A B C D F G H Low 132 144 45 57 20 65 56 Hight 132 144 45 57 20 65 81	M25 M32	PG29	H24B-SDRH-BO-2PG29 H24B-SDRH-BO-2M25 H24B-SDRH-BO-2M32	T 1 49 024 0229-000 T 1 49 024 0225-000 T 1 49 024 0232-000



H24B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M25 M32	PG21 PG29	H24B-TS-RO-PG21 H24B-TS-RO-PG29 H24B-TS-RO-M25 H24B-TS-RO-M32	T 1 31 024 0121-000 T 1 31 024 0129-000 T 1 31 024 0125-000 T 1 31 024 0132-000
	High construction	M25 M32 M40	PG21 PG29	H24B-TSH-RO-PG21 H24B-TSH-RO-PG29 H24B-TSH-RO-M25 H24B-TSH-RO-M32 H24B-TSH-RO-M40	T 1 33 024 0121-000 T 1 33 024 0129-000 T 1 33 024 0125-000 T 1 33 024 0132-000 T 1 33 024 0140-000
Hood: Top entry				1	
	Low construction	M25 M32	PG21 PG29	H24B-TG-RO-PG21 H24B-TG-RO-PG29 H24B-TG-RO-M25 H24B-TG-RO-M32	T 1 32 024 0121-000 T 1 32 024 0129-000 T 1 32 024 0125-000 T 1 32 024 0132-000
	High construction	M25 M32 M40	PG21 PG29	H24B-TGH-RO-PG21 H24B-TGH-RO-PG29 H24B-TGH-RO-M25 H24B-TGH-RO-M32 H24B-TGH-RO-M40	T 1 34 024 0121-000 T 1 34 024 0129-000 T 1 34 024 0125-000 T 1 34 024 0132-000 T 1 34 024 0140-000
Cable-to-cable hoc	od				
	Construction H Low 62.5 Hight 78.5	M25 M32 M25 M32 M40	PG21 PG29 PG21 PG29	H24B-TBF-LB-PG21 H24B-TBF-LB-PG29 H24B-TBF-LB-M25 H24B-TBF-LB-M32 H24B-TBFH-LB-PG21 H24B-TBFH-LB-PG29 H24B-TBFH-LB-M25 H24B-TBFH-LB-M32 H24B-TBFH-LB-M40	T 1 73 024 2121-000 T 1 73 024 2129-000 T 1 73 024 2125-000 T 1 73 024 2132-000 T 1 77 024 3121-000 T 1 77 024 3129-000 T 1 77 024 3125-000 T 1 77 024 3132-000 T 1 77 024 3140-000
Protection covers f	or hoods		1	I	1
				H24B-KDTP-LB	T 1 01 024 1500-000



H24B with 1 lever on the hoods/housings

Dimensions (mm)			PG	Туре	Part Number
Bulkhead mount	ed				
	ING MAD JUN			H24B-AG-LB	T 1 50 024 3000-000
	With protection cover			H24B-AD-LB	T 1 51 024 3000-000
Surface mounted	d: Side entry				
	Construction H Low 56 Hight 81	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H24B-SGR-LB-PG16 H24B-SGR-LB-PG21 H24B-SGR-LB-M20 H24B-SGR-LB-M25 H24B-SGR-LB-2PG16 H24B-SGR-LB-2PG21 H24B-SGR-LB-2M20 H24B-SGR-LB-2M25 H24B-SGRH-LB-PG21 H24B-SGRH-LB-M25 H24B-SGRH-LB-M32 H24B-SGRH-LB-M32 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG29 H24B-SGRH-LB-2M25 H24B-SGRH-LB-2M32	T 1 61 024 3116-000 T 1 61 024 3121-000 T 1 61 024 3120-000 T 1 61 024 3125-000 T 1 61 024 3216-000 T 1 61 024 3221-000 T 1 61 024 3225-000 T 1 65 024 3121-000 T 1 65 024 3125-000 T 1 65 024 3225-000
	With protection cover Construction H Low 56 Hight 81	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H24B-SDR-LB-PG16 H24B-SDR-LB-PG21 H24B-SDR-LB-M20 H24B-SDR-LB-M25 H24B-SDR-LB-2PG16 H24B-SDR-LB-2M20 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDRH-LB-PG21 H24B-SDRH-LB-PG29 H24B-SDRH-LB-M32 H24B-SDRH-LB-M32 H24B-SDRH-LB-M32 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG29 H24B-SDRH-LB-2M32 H24B-SDRH-LB-2M32	T 1 62 024 3116-000 T 1 62 024 3121-000 T 1 62 024 3120-000 T 1 62 024 3125-000 T 1 62 024 3216-000 T 1 62 024 3221-000 T 1 62 024 3225-000 T 1 66 024 3125-000 T 1 66 024 3225-000



HIP.24/64, HIP-K.24/64, EMV-K.24/64 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 68 / IP 69 K PG **Description** Metr. **Part Number Type** Surface mounted housing: Bottom entry, Standard construction HIP HIP.24/64.AG 1-1102665-5 HIP-K HIP-K.24/64.AG 2-1102665-5 EMV-K EMV-K.24/64.AG 4-1102760-5 M6x20 HIP HIP.24/64.AG.M6 1-1102626-5 HIP-K.24/64.AG.M6 2-1102626-5 HIP-K.24/64.AG.M6.D 2-1102628-5 HIP-K-I.24/64.AG.M6.D 0-1108533-1 EMV-K.24/64.AG.M6 4-1102736-5 Surface mounted housing: Side entry, Standard construction HIP 29 HIP.24/64.SG.1.29.G 1-1102624-5 2x29 1-1102625-5 HIP.24/64.SG.2.29.G 2xM40 HIP.24/64.SG.2.M40.G 0-1106472-1 HIP-K HIP-K.24/64.SG.1.29.G 5-1102624-5 29 2x29 2-1102625-5 HIP-K.24/64.SG.2.29.G 2xM40 HIP-K.24/64.SG.2.M40.G 0-1106472-2 Ø 5,5 EMV-K EMV-K.24/64.SG.1.29.G 4-1102734-5 29 2x29 EMV-K.24/64.SG.2.29.G 4-1102735-5 2xM40 EMV-K.24/64.SG.2.M40.G 0-1106460-2 **Protective cover housings** M6x30 HIP HIP/EMV.24/64.SKB 3-1106204-5 ПТП HIP-K/EMV-K 156 HIP-K/EMV-K.24/64.SKB 4-1106204-5



HIP.24/64, HIP-K.24/64, EMV-K.24/64 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar

IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Side entry,	Standard construction				
M/PG	M/PG	M40	21 29	HIP HIP.24/64.STS.1.21.G HIP.24/64.STS.1.29 G HIP.24/64.STS.1.M40.G	1-1102658-5 1-1102660-5 0-1106473-2
		M40	29	HIP-K HIP-K.24/64.STS.1.29.G HIP-K.24/64.STS.1.M40.G	2-1102660-5 0-1106473-4
142 156	142	M25 M32 M40	29	EMV-K EMV-K.24/64.STS.1.29.G EMV-K.24/64.STS.1.M25.G EMV-K.24/64.STS.1.M32.G EMV-K.24/64.STS.1.M40.G	4-1102755-5 0-1102983-1 0-1106461-8 0-1106461-3
	MP6 -57-	M40	29 36	HIP HIP-KF.24/64.STS.1.29.G HIP-KF.24/64.STS.1.36.G HIP-KF.24/64.STS.1.M40.G	1-1102622-5 1-1102623-5 0-1106474-1
115 115 115 115 115 115 115 115 115 115	M40	29 36	HIP-K HIP-KF/K.24/64.STS.1.29.G HIP-KF/K. 24/64.STS.1.36G HIP-KF/K.24/64.STS.1.M40.G	2-1102622-5 2-1102623-5 0-1106474-2	
	156 53	M40	29 36	EMV-K EMV-KF/K.24/64.STS.1.29.G EMV-KF/K.24/64.STS.1.36.G EMV-KF/K.24/64.STS.1.M40.G	4-1102732-5 4-1102733-5 0-1106462-2
lood: Top entry,	Standard construction				1
		M40			
	M/PG 57	2xM32 M40	21 29	HIP HIP.24/64.STO.1.21.G HIP.24/64.STO.1.29.G HIP.24/64.STO.1.M40.G	1-1102662-5 1-1102664-5 0-1106473-1
	142	M40 2xM40	29	HIP-K HIP-K.24/64.STO.1.29.G HIP-K.24/64.STO.2.M32.G HIP-K.24/64.STO.1.M40.G	2-1102664-5 0-1102792-1 0-1106473-3
T	156 53	2xM40	29	EMV-K EMV-K.24/64.STO.1.29.G EMV-K.24/64.STO.1.M40.G	4-1102759-5 0-1106461-4
		2xM40			



HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood

Description		Metr.	PG	Туре	Part Number
Hood					
	128 158 154 150 150 150 150 150 150 150 150	1xM50 1xM50 2xM40 2xM40		HF-HIP-K.8.Sto.1.M50G HF.8.EMV-K.8.Sto.1.M50G HF.HIP-K.8.Sto.2.M40G HF.EMV-K.8.Sto.2.M40G	0-1102839-4 0-1102839-3 0-1102839-2 0-1102839-1
Housing bottom					
		Hei	ght		
	184	81 mm 81 mm	20 mm 20 mm	HF-HIP-K.8.AG.N HF-EMV-K.8.AG.N HF-HIP-K.8.AG HF-EMV-K.8.AG	0-1102837-2 0-1102837-1 0-1102836-2 0-1102836-1
Hood					
	107 107 107 107 107 107 107 107 107 107	2xM40 2xM40 2xM50 2xM50		HF-HIP-K.12.Sto.2.M40G HF-EMV-K.12.Sto.2.M40G HF-HIP-K.12.Sto.2.M50G HF-EMV-K.12.Sto.2.M50G	0-1102840-2 0-1102840-1 0-1102840-4 0-1102840-3
Housing bottom				I	T
	184 194 194 194 194 194 194 194 194 194 19	81 mm 81 mm	20 mm 20 mm	HF-HIP-K.12.AG.N HF-EMV-K.12.AG.N HF-HIP-K.12.AG HF-EMVK-K.12.AG	0-1102838-2 0-1102838-1 0-1102192-2 0-1102192-1



HE-032 inserts

INSERTS FOR H32B HOOD/HOUSING

500V MAX. 16A

32 (2x16)+⊕

Dimension (mm)	Туре	Part Number	
		Male insert	Female insert
Screw terminal			
	HE-016-M(1-16) HE-016-M(17-32)	T 2 04 016 2101-000 T 2 04 032 2101-000	
	HE-016-F(1-16) HE-016-F(17-32)		T 2 04 016 2201-000 T 2 04 032 2201-000
Spring terminal			
	HE-016-MS(1-16) HE-016-MS(17-32)	T 2 04 016 3101-000 T 2 04 032 3101-000	
	HE-016-FS(1-16) HE-016-FS(17-32)		T 2 04 016 3201-000 T 2 04 032 3201-000
Crimp terminal (Order crimp contacts s	eparately)		
Charles .	HE-016-MC(1-16) HE-016-MC(17-32)	T 2 04 016 4101-000 T 2 04 032 4101-000	
William William	HE-016-FC(1-16) HE-016-FC(17-32)		T 2 04 016 4201-000 T 2 04 032 4201-000
Spring terminal (Two terminals per cont	cact)		
and the state of t	HE-016-MSS(1-16) HE-016-MSS(17-32)	T 2 04 016 5101-000 T 2 04 032 5101-000	
	HE-016-FSS(1-16) HE-016-FSS(17-32)		T 2 04 016 5201-000 T 2 04 032 5201-000

Tech data Material: copper alloy	16A Male crimp contacts	Wire gaug	ge	Strip- ping length		ntacts, silver-plated	Crimp con	tacts, gold-plated
Contact resistance: $\leq 1 \text{m}\Omega$	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000



HEE-064 inserts

INSERTS FOR H32B HOOD/HOUSING

500V MAX. 16A

64 (2x32)+ 🕏

Dimensions (mm)	Dimensions (mm)		Part Number		
			Male insert	Female insert	
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side				
		HEE-032-M(1-32) HEE-032-M(33-64)	T 2 05 032 2101-000 T 2 05 064 2101-000		
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	HEE-032-F(1-32) HEE-032-F(33-64)		T 2 05 032 2201-000 T 2 05 064 2201-000	

Tech data Material: copper alloy 16A Male crimp contacts		F		Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	

Distance for contact max. 21mm	Panel cut-out for inserts for use without hoods/housings
Crimp terminal	77.50 812 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9



HEEE-080 inserts

INSERTS FOR H32B HOOD/HOUSING

500V MAX. 16A

80+⊕

Dimensions (mm)		Туре	Part Number			
			Male insert	Female insert		
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side					
	**************************************	HEEE-040-M(1-40) HEEE-040-M(41-80)	T 2 05 040 2101-000 T 2 05 080 2101-000			
	F F	HEEE-040-F(1-40) HEEE-040-F(41-80)		T 2 05 040 2201-000 T 2 05 080 2201-000		

Tech data Material: copper alloy Contact		р		Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
resistance: ≤1mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	

Distance for contact max. 21mm	Panel cut-out for inserts for use without hoods/housings
Crimp terminal	77.5



HEEE-096 inserts

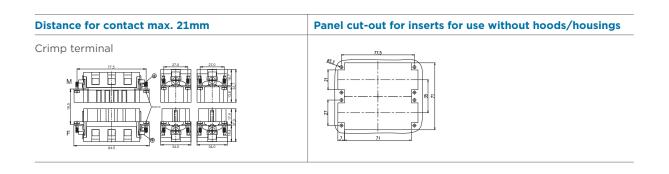
INSERTS FOR H32B HOOD/HOUSING

400V MAX. 16A

96+⊕

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side				
	**************************************	HEEE-048-M(1-48) HEEE-048-M(49-96)	T 2 05 048 2101-000 T 2 05 096 2101-000		
	****** ****** ****** ***** ***** ****	HEEE-048-F(1-48) HEEE-048-F(49-96)		T 2 05 048 2201-000 T 2 05 096 2201-000	

Tech data Material: copper alloy	16A Male crimp contacts	Wire gaug	ge	Strip- ping length			Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75	26-22 20 18	7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000	DEM-0.3 DEM-0.5 DEM-0.75	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000	
		1.0 1.5 2.5 4.0	18 16 14 12	7.5 7.5 7.5 7.5 7.5	CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1005-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	





H32B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
o and	\$ € € € € € € € € € € € € € € € € € € €	M32 M40	PG29 PG36	H32B-TS-PG29 H32B-TS-PG36 H32B-TS-M32 H32B-TS-M40	T 1 21 032 0129-000 T 1 21 032 0136-000 T 1 21 032 0132-000 T 1 21 032 0140-000
Hood: Top entry					
and and		M25 M32 M40 M50	PG21 PG29 PG36 PG42	H32B-TG-PG21 H32B-TG-PG29 H32B-TG-PG36 H32B-TG-PG42 H32B-TG-M25 H32B-TG-M32 H32B-TG-M40 H32B-TG-M50	T 1 22 032 0121-000 T 1 22 032 0129-000 T 1 22 032 0136-000 T 1 22 032 0142-000 T 1 22 032 0125-000 T 1 22 032 0132-000 T 1 22 032 0140-000 T 1 22 032 0150-000
Bulkhead mounted					
				H32B-AG	T 1 41 032 2000-000
Surface mounted: S	Side entry				
Co c	1 Side entry 2 Sid	M32 M40 M50 M63 M32 M40 M50 M63	PG29 PG36 PG42 PG29 PG36 PG42	H32B-SGR-PG29 H32B-SGR-PG36 H32B-SGR-PG42 H32B-SGR-M32 H32B-SGR-M50 H32B-SGR-M50 H32B-SGR-M63 H32B-SGR-2PG29 H32B-SGR-2PG36 H32B-SGR-2PG42 H32B-SGR-2M32 H32B-SGR-2M50 H32B-SGR-2M50 H32B-SGR-2M50 H32B-SGR-2M50	T 1 44 032 2129-000 T 1 44 032 2136-000 T 1 44 032 2142-000 T 1 44 032 2132-000 T 1 44 032 2150-000 T 1 44 032 2150-000 T 1 44 032 2163-000 T 1 44 032 2229-000 T 1 44 032 2236-000 T 1 44 032 2232-000 T 1 44 032 2242-000 T 1 44 032 2240-000 T 1 44 032 2250-000 T 1 44 032 2250-000 T 1 44 032 2263-000
Cable-to-cable hoo	d				
	54 50 50 50 50 50 50 50 50 50 50 50 50 50	M32 M40 M50 M63	PG29 PG36 PG42	H32B-TBF-PG29 H32B-TBF-PG36 H32B-TBF-PG42 H32B-TBF-M32 H32B-TBF-M40 H32B-TBF-M50 H32B-TBF-M63	T 1 71 032 2129-000 T 1 71 032 2136-000 T 1 71 032 2142-000 T 1 71 032 2142-000 T 1 71 032 2140-000 T 1 71 032 2150-000 T 1 71 032 2163-000
Protection covers f	or hoods				
	83.00			H32B-KDB	T 1 00 032 1220-000



H32B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
		M32 M40	PG29 PG36	H32B-TS-RO-PG29 H32B-TS-RO-PG36 H32B-TS-RO-M32 H32B-TS-RO-M40	T 1 31 032 0129-000 T 1 31 032 0136-000 T 1 31 032 0132-000 T 1 31 032 0140-000
Hood: Top entry			1	T	
	FIGURE SERVICE	M25 M32 M40 M50	PG21 PG29 PG36 PG42	H32B-TG-RO-PG21 H32B-TG-RO-PG29 H32B-TG-RO-PG36 H32B-TG-RO-PG42 H32B-TG-RO-M25 H32B-TG-RO-M32 H32B-TG-RO-M40 H32B-TG-RO-M50	T 1 32 032 0121-000 T 1 32 032 0129-000 T 1 32 032 0136-000 T 1 32 032 0142-000 T 1 32 032 0125-000 T 1 32 032 0132-000 T 1 32 032 0140-000 T 1 32 032 0150-000
Bulkhead mounted					
	1000 550 R. S.			H32B-AG-LB	T 1 50 032 2000-000
	With protection cover			H32B-AD-LB	T 1 51 032 2000-000
Surface mounted: S	Side entry				
	2 Side entry	M32 M40 M32 M40	PG29	H32B-SGR-LB-PG29 H32B-SGR-LB-M32 H32B-SGR-LB-M40 H32B-SGR-LB-2PG29 H32B-SGR-LB-2M32 H32B-SGR-LB-2M40	T 1 61 032 2129-000 T 1 61 032 2132-000 T 1 61 032 2140-000 T 1 61 032 2229-000 T 1 61 032 2232-000 T 1 61 032 2240-000
	With protection cover	M32 M40 M32 M40	PG29	H32B-SDR-LB-PG29 H32B-SDR-LB-M32 H32B-SDR-LB-M40 H32B-SDR-LB-2PG29 H32B-SDR-LB-2M32 H32B-SDR-LB-2M40	T 1 62 032 0129-000 T 1 62 032 0132-000 T 1 62 032 0140-000 T 1 62 032 0229-000 T 1 62 032 0232-000 T 1 62 032 0240-000



HE-048 inserts

INSERTS FOR H48B HOOD/HOUSING

500V MAX. 16A

48 (2x24)+ ⊕

Dimension (mm)	Туре	Part Number		
		Male insert	Female insert	
Screw terminal				
	HE-024-M(1-24) HE-024-M(25-48)	T 2 04 024 2101-000 T 2 04 048 2101-000		
	HE-024-F(1-24) HE-024-F(25-18)		T 2 04 024 2201-000 T 2 04 048 2201-000	
Spring terminal				
and the same of th	HE-024-MS(1-24) HE-024-MS(25-48)	T 2 04 024 3101-000 T 2 04 048 3101-000		
	HE-024-FS(1-24) HE-024-FS(25-48)		T 2 04 024 3201-000 T 2 04 048 3201-000	
Crimp terminal (Order crimp contacts se	parately)			
	HE-024-MC(1-24) HE-024-MC(25-48)	T 2 04 024 4101-000 T 2 04 048 4101-000		
	HE-024-FC(1-24) HE-024-FC(25-48)		T 2 04 024 4201-000 T 2 04 048 4201-000	
Spring terminal (Two terminals per conta	ct)	·		
	HE-024-MSS(1-24) HE-024-MSS(25-48)	T 2 04 024 5101-000 T 2 04 048 5101-000		
	HE-024-FSS(1-24) HE-024-FSS(25-48)		T 2 04 024 5201-000 T 2 04 048 5201-000	

IBA Contact									
Tech data Material: copper alloy	16A Male crimp contacts	Wire gaug	ge	Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	

Distance for contact max. 21mm	Contact arrangement view from termination side	Panel cut-out for inserts for use without hoods/housings		
	⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕	154.00 154.00		



HEE-092 inserts

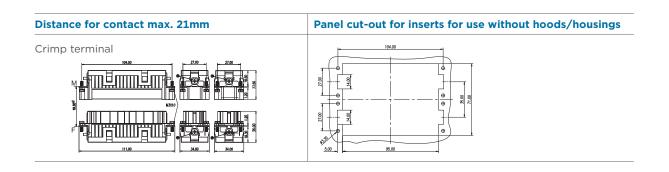
INSERTS FOR H48B HOOD/HOUSING

500V MAX. 16A

92 (2x46)+

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side			
A Laboratory of the second		HEE-046-M(1-46) HEE-046-M(47-92)	T 2 05 046 2101-000 T 2 05 092 2101-000	
A STATE OF THE PARTY OF THE PAR		HEE-046-F(1-46) HEE-046-F(47-92)		T 2 05 046 2201-000 T 2 05 092 2201-000

Tech data Material: copper alloy Contact	16A Male crimp contacts	Wire gauge		Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp con	tacts, gold-plated
resistance: ≤1mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75	26-22 20 18	7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000	DEM-0.3 DEM-0.5 DEM-0.75	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000
		1.0 1.5 2.5 4.0	18 16 14 12	7.5 7.5 7.5 7.5	CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000





HEEE-128 inserts

INSERTS FOR H48B HOOD/HOUSING

500V MAX. 16A

128+🖶

Dimensions (mm)		Туре	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side					
Sales Contraction of the Contrac		HEEE-064-M(1-64) HEEE-128-M(65-128)	T 2 05 064 3101-000 T 2 05 128 3101-000			
		HEEE-064-F(1-64) HEEE-128-F(65-128)		T 2 05 064 3201-000 T 2 05 128 3201-000		

Tech data Material: copper alloy	crimp contacts		Wire gauge Stri		Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	

Distance for contact max. 21mm	Panel cut-out for inserts for use without hoods/housings
Crimp terminal	104.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



HEEE-144 inserts

INSERTS FOR H48B HOOD/HOUSING

400V MAX. 16A

144+⊕

Dimensions (mm)		Туре	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side					
A TOTAL DE LA CONTRACTION DEL CONTRACTION DE LA		HEEE-072-M(1-72) HEEE-144-M(73-144)	T 2 05 072 2101-000 T 2 05 144 2101-000			
		HEEE-072-F(1-72) HEEE-144-F(73-144)		T 2 05 072 2201-000 T 2 05 144 2201-000		

Tech data Material: copper alloy Contact	16A Male crimp contacts	Wire gauge		Wire gauge Stripping length		Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
resistance: ≤1mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5	26-22 20 18 18	7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000		
		2.5 4.0	14 12	7.5 7.5	CEM-2.5 CEM-4.0	T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-2.5 DEM-4.0	T 2 03 001 1025-000 T 2 03 001 1040-000		
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000		

Distance for contact max. 21mm	Panel cut-out for inserts for use without hoods/housing
Crimp terminal	104
M 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	



H48B hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
a in		M32 M40 M50 M63	PG29 PG36 PG42	H48B-TS-PG29 H48B-TS-PG36 H4SB-TS-PG42 H48B-TS-M32 H48B-TS-M40 H48B-TS-M50 H48B-TS-M63	T 1 31 048 0129-000 T 1 31 048 0136-000 T 1 31 048 0142-000 T 1 31 048 0132-000 T 1 31 048 0140-000 T 1 31 048 0150-000 T 1 31 048 0163-000
Hood: Top entry					
		M32 M40 M50 M63	PG29 PG36 PG42	H48B-TG-PG29 H48B-TG-PG36 H48B-TG-PG42 H48B-TG-M32 H48B-TG-M40 H48B-TG-M50 H48B-TG-M63	T 1 32 048 0129-000 T 1 32 048 0136-000 T 1 32 048 0142-000 T 1 32 048 0132-000 T 1 32 048 0140-000 T 1 32 048 0150-000 T 1 32 048 0163-000
Bulkhead mounted			1	I	
				H48B-AG	T 1 50 048 2000-000
	With protection cover			H48B-AD-LB	T 1 51 048 2000-000
Surface mounted: 9	Side entry				
	1 Side entry	M32 M40 M50 M32 M40 M50	PG29 PG36 PG42 PG29 PG36 PG42	H48B-SGR-PG29 H48B-SGR-PG36 H48B-SGR-PG42 H48B-SGR-M32 H48B-SGR-M40 H48B-SGR-M50 H48B-SGR-2PG29 H48B-SGR-2PG36 H48B-SGR-2PG42 H48B-SGR-2M32 H48B-SGR-2M40 H48B-SGR-2M50	T 1 61 048 2129-000 T 1 61 048 2136-000 T 1 61 048 2132-000 T 1 61 048 2132-000 T 1 61 048 2140-000 T 1 61 048 2150-000 T 1 61 048 2229-000 T 1 61 048 2236-000 T 1 61 048 2232-000 T 1 61 048 2232-000 T 1 61 048 2250-000 T 1 61 048 2250-000
Surface mounted w	vith cover				
	2 Side entry	M32 M40 M50 M32 M40 M50	PG29 PG36 PG42 PG29 PG36 PG42	H48B-SDR-PG29 H48B-SDR-PG36 H48B-SDR-PG42 H48B-SDR-M32 H48B-SDR-M40 H48B-SDR-PG29 H48B-SDR-2PG36 H48B-SDR-2PG42 H48B-SDR-2M32 H48B-SDR-2M32 H48B-SDR-2M40 H48B-SDR-2M50	T 1 62 048 0129-000 T 1 62 048 0136-000 T 1 62 048 0142-000 T 1 62 048 0132-000 T 1 62 048 0140-000 T 1 62 048 0150-000 T 1 62 048 0229-000 T 1 62 048 0236-000 T 1 62 048 0232-000 T 1 62 048 0250-000



Crimp contacts HE/HA series

16A Contact

Tech data Material: copper alloy Contact	16A Male crimp contacts	mp contacts ping length		ping	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	

Crimping tools HE/HA series

Description	Туре	Part Number	
Crimp tool Wire range: 0.5-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts	CRIMPBOX-0.5/4	T 3 10 000 0001-000	
Crimp tool Wire range: 0.14-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts with locator and die	RSZ.HE-HN.D-HVT	1-1105851-8	
Removal tools Used for CEM/CEF contact series	REMOV-HEE	T 3 10 000 0002-000	
M3 screw driver Used for HA/HE inserts	SCREWD-M3	T 3 10 000 0009-000	



HVE technical characteristics

Specifications DIN EN 60 664-1 DIN EN 61 984 Number of contacts 3+PE+2,6+PE+2,10+PE+2

CURRENT CARRYING CAPACITY

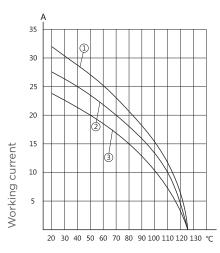
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	16A max
(See current carrying capacity)	
Working voltage	830V
Test voltage urms	8KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

25 20 30 40 50 60 70 80 90 100 110 120 130 °C

Ambient temperature



Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤5mΩ
Terminal	Screw terminal
	Crimp terminal
	Spring terminal
- mm ²	
Screw terminal	0.5-2.5mm ²
Crimp terminal	0.14-4mm ²
Spring terminal	0.5-2.5mm ²
- AWG	
Screw terminal	20-14
Crimp terminal	26-12
Spring terminal	20-14
- Tightening/test torque	0.5 Nm

- 1 HVE-003
 - 2 HVE-006
 - **3** HVE-010

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	-40°C +125°C
Degree of protection acc. to D	IN40 050 IP65



HEE series (high voltage) inserts

MODIFIED CONTACT ARRANGEMENT

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

	Contact arrange	ement view from term	nination side	
	4+ (1/2)	8+ 📳	14+ 📳	20+ 📳
Series HEE 690V~ Insulation group C	M F	0000 000	000000000000000000000000000000000000000	
	2+ 😨	4+ ⊕	8+ (±)	12+ 🕏
1000V~ Insulation group C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	Working contact	t Without contact	Male insert	Female insert



HVE series

INSERTS FOR H10B, H16B, H24B HOOD/HOUSING

830V MAX. 16A

Dimension (mm)	Туре	Part Number	Part Number		
		Male insert	Female insert		
3+ (→ +2					
Screw terminal					
	HVE-003-M	T 2 30 003 3101-000			
A Jessey	HVE-003-F		T 2 30 003 3201-000		
6+ (€) +2					
Screw terminal					
	HVE-006-M	T 2 30 006 3101-000			
A STATE OF THE PARTY OF THE PAR	HVE-006-F		T 2 30 006 3201-000		
10+ (⊕) +2					
Screw terminal					
	HVE-010-M	T 2 30 010 3101-000			
	HVE-010-F		T 2 30 010 3201-000		



HSB Series



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

2. Standards
DIN EN 60 664-1
DIN EN 61 984

3. Approvals





HSB technical characteristics

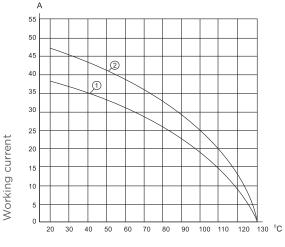
Specifications DIN EN 60 664-1 DIN EN 61 984 Number of contacts 6,12(2x6) + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	35A max
(See current carrying capacity)	
Working voltage	
Conductor - ground	400 V
Conductor - conductor	690 V
Test voltage urms	6KV
Pollution degree	3
Insulation resistance	≥10¹0Ω
Material Polyc	arbonate
Temperature range40°C	. +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500



Ambient temperature

CONTACTS

Material	Copper allov
Surface	
Contact resistance	≤1mΩ
Terminal	Screw terminal
- mm ²	1.5-6mm²
- AWG	
- Tightening/test torque	1.2 Nm

1 Wire gauge: 4.0mm²2 Wire gauge: 6.0mm²

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc	to DIN40 050 IP65

HSB-006 inserts

INSERTS FOR H16B HOOD/HOUSING

690V 35A

6+ ⊕

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (order crimp co	ntacts separately)			
	77.50	HSB-006-M	T 2 06 006 2101-000	
and the same of th		HSB-006-F		T 2 06 006 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
 ⊕ ⊕	77.50			



H16B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number	
Hood: Side entry	Hood: Side entry					
	Low construction	M20 M25 M32	PG16 PG21	H16B-TS-PG16 H16B-TS-PG21 H16B-TS-M20 H16B-TS-M25 H16B-TS-M32	T 1 21 016 0116-000 T 1 21 016 0121-000 T 1 21 016 0120-000 T 1 21 016 0125-000 T 1 21 016 0132-000	
	High construction	M25 M32 M40	PG21 PG29	H16B-TSH-PG21 H16B-TSH-PG29 H16B-TSH-M25 H16B-TSH-M32 H16B-TSH-M40	T 1 23 016 0121-000 T 1 23 016 0129-000 T 1 23 006 0125-000 T 1 23 016 0132-000 T 1 23 016 0140-000	
Hood: Top entry		I	I	I		
	Low construction	M25 M32	PG16 PG21	H16B-TG-PG16 H16B-TG-PG21 H16B-TG-M25 H16B-TG-M32	T 1 22 016 0116-000 T 1 22 016 0121-000 T 1 22 016 0125-000 T 1 22 016 0132-000	
	High construction	M25 M32 M40	PG21 PG29	H16B-TGH-PG21 H16B-TGH-PG29 H16B-TGH-M25 H16B-TGH-M32 H16B-TGH-M40	T 1 24 016 0121-000 T 1 24 016 0129-000 T 1 24 016 0125-000 T 1 24 016 0132-000 T 1 24 016 0140-000	
Cable-to-cable hoc	pd		ı	1		
	Construction H Low 62.5 Hight 74.5	M25 M32 M25 M32 M40	PG21 PG21 PG29	H16B-TBFS-PG21 H16B-TBFS-M25 H16B-TBFS-M32 H16B-TBFHS-PG21 H16B-TBFHS-PG29 H16B-TBFHS-M25 H16B-TBFHS-M32 H16B-TBFHS-M40	T 1 71 016 1121-000 T 1 71 016 1125-000 T 1 71 016 1132-000 T 1 75 016 1121-000 T 1 75 016 1129-000 T 1 75 016 1125-000 T 1 75 016 1132-000 T 1 75 016 1140-000	
Protection covers f	or hoods	I	I	I		
	39,00			H16B-KDTP	T 1 01 016 1400-000	
Housing protection cover						
6.	99.80			H16B-KDBP	T 1 01 016 2100-000	



H16B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number	
Bulkhead mounted						
	53.00 53			H16B-AGS	T 1 41 016 1000-000	
Surface mounted	: Side entry					
	1 Side entry 2 Side entry 1 Sid	M25 M25 M25 M32 M25 M32	PG21 PG21 PG29 PG21 PG29	H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 H16B-SGRHS-PG29 H16B-SGRHS-M25 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2PG29 H16B-SGRHS-2M25 H16B-SGRHS-2M32	T 1 44 016 1121-000 T 1 44 016 1125-000 T 1 44 016 1221-000 T 1 44 016 1225-000 T 1 47 016 1121-000 T 1 47 016 1129-000 T 1 47 016 1125-000 T 1 47 016 1125-000 T 1 47 016 1221-000 T 1 47 016 1221-000 T 1 47 016 1225-000 T 1 47 016 1225-000 T 1 47 016 1225-000 T 1 47 016 1232-000	
Side entry housing	ng with two levers	1	1	1	1	
V.c. C.	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25 H16B-TSBHS-PG21 H16B-TSBHS-PG29 H16B-TSBHS-M25 H16B-TSBHS-M32	T 1 25 016 3116-000 T 1 25 016 3121-000 T 1 25 016 3120-000 T 1 25 016 3125-000 T 1 27 016 3121-000 T 1 27 016 3129-000 T 1 27 016 3125-000 T 1 27 016 3132-000	
Top entry housin	g with two levers					
7.0 %	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25 H16B-TGBHS-PG21 H16B-TGBHS-PG29 H16B-TGBHS-M25 H16B-TGBHS-M32	T 1 26 016 3116-000 T 1 26 016 3121-000 T 1 26 016 3120-000 T 1 26 016 3125-000 T 1 28 016 3121-000 T 1 28 016 3129-000 T 1 28 016 3125-000 T 1 28 016 3132-000	
Bulkhead mount	ed with 4 bolts					
	1 15 6 entry 2 5 6 entry 2 5 6 6 7 7 5 7 2 6 6 7 7 7 7 7 7 7 7	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25 H16B-SDRH-BO-PG21 H16B-SDRH-BO-PG29 H16B-SDRH-BO-M25 H16B-SDRH-BO-M32 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG29 H16B-SDRH-BO-2M25 H16B-SDRH-BO-2M32	T 1 43 016 0000-000 T 1 46 016 0121-000 T 1 46 016 0125-000 T 1 46 016 0221-000 T 1 49 016 0125-000 T 1 49 016 0225-000 T 1 49 016 0221-000 T 1 49 016 0225-000 T 1 49 016 0232-000	



H16B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M25 M32	PG21 PG29	H16B-TS-RO-PG21 H16B-TS-RO-PG29 H16B-TS-RO-M25 H16B-TS-RO-M32	T 1 31 016 0121-000 T 1 31 016 0129-000 T 1 31 016 0125-000 T 1 31 016 0132-000
	High construction	M25 M32 M40	PG21 PG29	H16B-TSH-RO-PG21 H16B-TSH-RO-PG29 H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40	T 1 33 016 0121-000 T 1 33 016 0129-000 T 1 33 016 0125-000 T 1 33 016 0132-000 T 1 33 016 0140-000
Hood: Top entry					
	Low construction	M25 M32	PG21 PG29	H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25 H16B-TG-RO-M32	T 1 32 016 0121-000 T 1 32 016 0129-000 T 1 32 016 0125-000 T 1 32 016 0132-000
	High construction	M25 M32 M40	PG21 PG29	H16B-TGH-RO-PG21 H16B-TGH-RO-PG29 H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	T 1 34 016 0121-000 T 1 34 016 0129-000 T 1 34 016 0125-000 T 1 34 016 0132-000 T 1 34 016 0140-000
Cable-to-cable hoc	od				
	Construction H Low 62.5	M25 M32	PG21 PG29 PG21 PG29	H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29	T 1 73 016 3121-000 T 1 73 016 3129-000 T 1 73 016 3125-000 T 1 73 016 3132-000 T 1 77 016 3121-000 T 1 77 016 3129-000
	Hight 74.5	M25 M32 M40		H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40	T 1 77 016 3125-000 T 1 77 016 3132-000 T 1 77 016 3140-000
Protection covers for hoods					
				H16B-KDTP-LB	T 1 01 016 1500-000



H16B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number	
Bulkhead mounted						
	11100 H.60 T. 27.10 T. 100 T.				H16B-AG-LB	T 1 50 016 3000-000
	With protection cover				H16B-AD-LB	T 1 51 016 3000-000
Surface mounte	d: Side entry			'		
	Construction H Low 56 Hight 81	1 Side entry 2 Side entry 1 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H16B-SGR-LB-PG16 H16B-SGR-LB-PG21 H16B-SGR-LB-M20 H16B-SGR-LB-M25 H16B-SGR-LB-2PG16 H16B-SGR-LB-2PG21 H16B-SGR-LB-2M20 H16B-SGR-LB-PM25 H16B-SGRH-LB-PG21 H16B-SGRH-LB-PG29 H16B-SGRH-LB-M25 H16B-SGRH-LB-M25 H16B-SGRH-LB-M32 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2M32	T 1 61 016 3116-000 T 1 61 016 3121-000 T 1 61 016 3120-000 T 1 61 016 3125-000 T 1 61 016 3216-000 T 1 61 016 3221-000 T 1 61 016 3221-000 T 1 61 016 3225-000 T 1 65 016 3121-000 T 1 65 016 3125-000 T 1 65 016 3225-000 T 1 65 016 3232-000
	With protection cover Construction H Low 56 Hight 81	1 Side entry 2 Side entry 2 Side entry Law construction High construction	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SDR-LB-PG16 H16B-SDR-LB-PG21 H16B-SDR-LB-M20 H16B-SDR-LB-M25 H16B-SDR-LB-2PG16 H16B-SDR-LB-2PG21 H16B-SDR-LB-2M20 H16B-SDR-LB-2M25 H16B-SDRH-LB-PG21 H16B-SDRH-LB-PG29 H16B-SDRH-LB-M35 H16B-SDRH-LB-M35 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M32	T 1 62 016 3116-000 T 1 62 016 3121-000 T 1 62 016 3120-000 T 1 62 016 3125-000 T 1 62 016 3216-000 T 1 62 016 3221-000 T 1 62 016 3221-000 T 1 62 016 3225-000 T 1 66 016 3121-000 T 1 66 016 3121-000 T 1 66 016 3125-000 T 1 66 016 3125-000 T 1 66 016 3125-000 T 1 66 016 3221-000 T 1 66 016 3221-000 T 1 66 016 3221-000 T 1 66 016 3225-000



HIP.16/40, HIP-K.16/40, EMV-K.16/40 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar Description Metr. PG Type Part Number

Hood: Side entry					
	M/PG 57	M32	21 29	HIP HIP.16/40.STS.1.21.G HIP.16/40.STS.1.29.G HIP.16/40.STS.1.M32.G	1-1102649-5 1-1102651-5 0-1106454-2
		M32	29	HIP-K HIP-K.16/40.STS.1.29.G HIP-K.16/40.STS.1.M32.G	2-1102651-5 0-1106444-2
1	115.5 53	M32	29	EMV-K EMV-K.16/40.STS.1.29.G EMV-K.16/40.STS.1.M32.G EMV-K.16/40.STS.1.21.G	4-1102723-5 0-1106446-4 4-1102722-5
lood: Top entry				2	. 1101/11
	MPG 57	M32	21 29	HIP HIP.16/40.STO.1.21.G HIP.16/40.STO.1.29.G HIP.16/40.STO.1.M32.G	1-1102653-5 1-1102655-5 0-1106454-1
	115.5 129.5	M32	21 29	HIP-K HIP-K.16/40.STO.2.21.G HIP-K.16/40.STO.1.29.G HIP-K.16/40.STO.1.M32.G	0-1108534-1 2-1102655-5 0-1106444-1
		M32	29	EMV-K EMV-K.16/40.STO.1.29.G EMV-K.16/40.STO.1.M32.G	4-1102725-5 0-1106446-3
urface mounted	I housing: Bottom entry				
	103 64.5 1 29.5 56 32 56			HIP HIP.16/40.AG	1-1102656-5
	Panel cut-out			HIP-K HIP-K.16/40.AG	2-1102656-5
	25 85 86 103			EMV-K EMV-K.16/40.AG	4-1102728-5
	M6x20 M6x20 112.5 129.5 129.5			HIP HIP.16/40.AG.M6	1-1102618-5
	Panel cut-out			HIP-K HIP-K.16/40.AG.M6	2-1102618-5
	112.5 112.5 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10			EMV-K EMV-K.16/40.AG.M6	4-1102730-5
		1	1		1



HIP.16/40, HIP-K.16/40, EMV-K.16/40 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar

IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Surface mounte	d housing: Side entry				
				HIP	
			21	HIP.16/40.SG.1.21.G	1-1102616-5
			2x21	HIP.16/40.SG.2.21.G	1-1102617-5
		2xM32		HIP.16/40.SG.2.M32.G	0-1106453-1
_	129.5				
				HIP-K	
商	M/PG S		21	HIP-K.16/40.SG.1.21.G	5-1102616-5
100			2x21	HIP-K.16/40.SG.2.21.G	2-1102617-5
	105.5 05.5	2xM32		HIP-K.16/40.SG.2.M32.G	0-1106443-1
	123.5				
				EMV-K	
			21	EMV-K.16/40.SG.1.21.Z	4-1102726-5
			2x21	EMV-K.16/40.SG.2.21.Z	4-1102727-5
		2xM32		EMV-K.16/40.SG.2.M32.G	0-1106445-2
Protective cover	s for housings	·			
				HIP	
	M6x30			HIP/EMV.16/40.SKB	3-1106203-5
111	129.5			IIID I/	
•	53			HIP-K	4 1100007 5
				HIP-K.16/40.SKB	4-1106203-5



HSB-012 inserts

INSERTS FOR H32B HOOD/HOUSING

690V 35A

12 (2x6)+⊕

Dimensions (mm)	Туре	Part Number		
			Male insert	Female insert
Screw terminal				
		HSB-006-M(1-6) HSB-006-M(7-12)		
	F Man Man	HSB-006-F(1-6) HSB-006-F(7-12)		T 2 06 006 2201-000 T 2 06 012 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
$ \begin{bmatrix} $	77.50 0 0 88 8 0 0 97 0 88 8 0 97 0 0 88 8 0 97 0 0 88 8 0 0 97 0 0 88 8 0 0 97 0 0 0 97 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			



H32B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number	
Hood: Side entry						
I I I	No. No.	M32 M40	PG29 PG36	H32B-TS-PG29 H32B-TS-PG36 H32B-TS-M32 H32B-TS-M40	T 1 21 032 0129-000 T 1 21 032 0136-000 T 1 21 032 0132-000 T 1 21 032 0140-000	
Hood: Top entry						
		M25 M32 M40 M50	PG21 PG29 PG36 PG42	H32B-TG-PG21 H32B-TG-PG29 H32B-TG-PG36 H32B-TG-PG42 H32B-TG-M25 H32B-TG-M32 H32B-TG-M40 H32B-TG-M50	T 1 22 032 0121-000 T 1 22 032 0129-000 T 1 22 032 0136-000 T 1 22 032 0142-000 T 1 22 032 0125-000 T 1 22 032 0132-000 T 1 22 032 0140-000 T 1 22 032 0150-000	
Bulkhead mounted			1			
				H32B-AG	T 1 41 032 2000-000	
Surface mounted: S	Side entry					
	2 Side only 2 Side only	M32 M40 M50 M63 M32 M40 M50 M63	PG29 PG36 PG42 PG29 PG36 PG42	H32B-SGR-PG29 H32B-SGR-PG36 H32B-SGR-PG42 H32B-SGR-M32 H32B-SGR-M40 H32B-SGR-M50 H32B-SGR-PG29 H32B-SGR-2PG29 H32B-SGR-2PG42 H32B-SGR-2PG42 H32B-SGR-2M32 H32B-SGR-2M30 H32B-SGR-2M40 H32B-SGR-2M50 H32B-SGR-2M63	T 1 44 032 2129-000 T 1 44 032 2136-000 T 1 44 032 2142-000 T 1 44 032 2132-000 T 1 44 032 2140-000 T 1 44 032 2150-000 T 1 44 032 2150-000 T 1 44 032 2163-000 T 1 44 032 2239-000 T 1 44 032 2236-000 T 1 44 032 2232-000 T 1 44 032 2232-000 T 1 44 032 2240-000 T 1 44 032 2250-000 T 1 44 032 2263-000 T 1 44 032 2263-000	
Cable-to-cable hoo	Cable-to-cable hood					
	94 20 34 20	M32 M40 M50 M63	PG29 PG36 PG42	H32B-TBF-PG29 H32B-TBF-PG36 H32B-TBF-PG42 H32B-TBF-M32 H32B-TBF-M40 H32B-TBF-M50 H32B-TBF-M63	T 1 71 032 2129-000 T 1 71 032 2136-000 T 1 71 032 2142-000 T 1 71 032 2132-000 T 1 71 032 2140-000 T 1 71 032 2150-000 T 1 71 032 2163-000	
Protection covers for hoods						
	83.00			H32B-KDB	T 1 00 032 1220-000	



H32B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number	
Hood: Side entry						
281		M32 M40	PG29 PG36	H32B-TS-RO-PG29 H32B-TS-RO-PG36 H32B-TS-RO-M32 H32B-TS-RO-M40	T 1 31 032 0129-000 T 1 31 032 0136-000 T 1 31 032 0132-000 T 1 31 032 0140-000	
Hood: Top entry			1	I		
	N/N S	M25 M32 M40 M50	PG21 PG29 PG36 PG42	H32B-TG-RO-PG21 H32B-TG-RO-PG29 H32B-TG-RO-PG36 H32B-TG-RO-PG42 H32B-TG-RO-M25 H32B-TG-RO-M32 H32B-TG-RO-M40 H32B-TG-RO-M50	T 1 32 032 0121-000 T 1 32 032 0129-000 T 1 32 032 0136-000 T 1 32 032 0142-000 T 1 32 032 0125-000 T 1 32 032 0132-000 T 1 32 032 0140-000 T 1 32 032 0150-000	
Bulkhead mounted						
	150 65 65 65 65 65 65 65 65 65 65 65 65 65			H32B-AG-LB	T 1 50 032 2000-000	
	With protection cover			H32B-AD-LB	T 1 51 032 2000-000	
Surface mounted: 9	Side entry					
	1 Side entry 2 Side entry	M32 M40 M32 M40	PG29	H32B-SGR-LB-PG29 H32B-SGR-LB-M32 H32B-SGR-LB-M40 H32B-SGR-LB-2PG29 H32B-SGR-LB-2M32 H32B-SGR-LB-2M40	T 1 61 032 2129-000 T 1 61 032 2132-000 T 1 61 032 2140-000 T 1 61 032 2229-000 T 1 61 032 2232-000 T 1 61 032 2240-000	
	With protection cover	M32 M40 M32 M40	PG29	H32B-SDR-LB-PG29 H32B-SDR-LB-M32 H32B-SDR-LB-M40 H32B-SDR-LB-2PG29 H32B-SDR-LB-2M32 H32B-SDR-LB-2M40	T 1 62 032 0129-000 T 1 62 032 0132-000 T 1 62 032 0140-000 T 1 62 032 0229-000 T 1 62 032 0232-000 T 1 62 032 0240-000	



HQ Series



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

2. Standards DIN EN 175 301-801 DIN EN 61 984

3. Approvals





HQ technical characteristics

Specifications DIN EN 60 664-1 DIN EN 61 984

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Number of contacts \dots 5,7,8,12,17,4/2 + PE Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	
HQ-005,008	16A max
HQ-007,012,017	10A max
HQ4/2	Power area 40A max
	Signal area 10A max
Working voltage	
HQ-005,007,012	400V
HQ-008	500V
HQ-017	250V
HQ4/2Power area	600V Signal area 250V
Test voltage urms	
HQ-005,017	4KV
HQ-007,008,012,4/2	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	-40°C +100°C/125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles .	≥500

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤1mΩ
Terminal	Crimp terminal
- mm ²	0.14-4.0/0.14-2.5/1.5-6mm ²
- AWG	26-12/26-14/16-10
- Tightening/test torque	0.25Nm

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc. to [DIN40 050IP65



HQ-005 inserts

INSERTS FOR H3A HOOD/HOUSING

400V MAX. 16A

5+⊕

Dimensions (mm)	Contact arrangement view	Part Number	Туре	
	from termination side	Male insert	Female insert	
Crimp terminal (Order crimp co	ntacts separately)			
	M S R M 5 4 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 2 08 005 2101-000		HQ-005-M
	F \$\frac{2}{5}\$		T 2 08 005 2201-000	HQ-005-F

Tech data Material:	16A Male crimp contacts	Wire gaug	ge	Strip- ping				tacts, gold-plated
copper alloy	1			length	h			
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection		0.14-0.37	26-22	7.5	CEM-0.3	T 2 03 000 1002-000	DEM-0.3	T 2 03 001 1002-000
CEM/Male		0.5 0.75	20 18	7.5 7.5	CEM-0.5 CEM-0.75	T 2 03 000 1005-000 T 2 03 000 1008-000	DEM-0.5 DEM-0.75	T 2 03 001 1005-000 T 2 03 001 1008-000
		1.0	18 16	7.5	CEM-1.0	T 2 03 000 1010-000 T 2 03 000 1015-000	DEM-1.0	T 2 03 001 1010-000
		1.5 2.5 4.0	16 14 12	7.5 7.5 7.5	CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female	0.14-0.37	26-22	7.5	CEF-0.3	T 2 03 000 2002-000	DEF-0.3	T 2 03 001 2002-000
	crimp contacts	0.5 0.75	20 18	7.5 7.5	CEF-0.5 CEF-0.75	T 2 03 000 2005-000 T 2 03 000 2008-000	DEF-0.5 DEF-0.75	T 2 03 001 2005-000 T 2 03 001 2008-000
	7.50	1.0 1.5	18 16	7.5 7.5	CEF-1.0 CEF-1.5	T 2 03 000 2010-000 T 2 03 000 2015-000	DEF-1.0 DEF-1.5	T 2 03 001 2010-000 T 2 03 001 2015-000
		2.5 4.0	14 12	7.5 7.5	CEF-2.5 CEF-4.0	T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-2.5 DEF-4.0	T 2 03 001 2025-000 T 2 03 001 2040-000



HQ-007/012 inserts

INSERTS FOR H3A HOOD/HOUSING

400V MAX. 10A

7+⊕ 12+⊕

Dimensions (mm)	Contact arrangement view	Part Number	Part Number		
	from termination side	Male insert	Female insert		
Crimp terminal (Order crim	p contacts separately)				
	M 8 R R	T 2 08 007 2101-000		HQ-007-M	
	F 3 21.00		T 2 08 007 2201-000	HQ-007-F	
	M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	T 2 08 012 2101-000		HQ-012-M	
	F 2 21		T 2 08 012 2201-000	HQ-012-F	

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	ping			Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	3 200	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000		
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000		



H3A metal hoods/housings

POWDER-COATED, RAL 7037

Dimensions (mm	1)	Metr.	PG	Туре	Part Number
Top entry					
	28.8 PCM	M20	PG11	H3A-MTG-PG11 H3A-MTG-M20	T 1 32 903 0111-000 T 1 32 903 0120-000
Side entry					
	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M20	PG11	H3A-MTS-PG11 H3A-MTS-M20	T 1 31 903 0111-000 T 1 31 903 0120-000
Bulkhead mount	ing: Bottom entry				
	37.3			H3A-MAG	T 1 50 903 0000-000
Bulkhead mount	ing: Side entry				
				H3A-MAGS	T 1 54 903 0000-000
Surface mountin	g: Side entry				
	0 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	M16 M20	PG11	H3A-MAGSV-PG11 H3A-MAGSV-M16 H3A-MAGSV-M20	T 1 61 903 0111-000 T 1 61 903 0116-000 T 1 61 903 0120-000
Cable-to-cable h	ood:				
	7000	M20	PG11	H3A-MTGVB-PG11 H3A-MTGVB-M20	T 1 73 903 0111-000 T 1 73 903 0120-000
Protection cover	s for hoods (thermoplastic)				
6	Note: For mounted male insert and hood			H3A-KDTP	T 1 01 003 1100-000
Metal protection	covers for hoods				
	Note: For mounted female insert and hood			H3A-KDB	T 1 01 003 3100-000



H3A thermoplastic hoods/housings

THERMOPLASTIC HOODS, HOUSINGS

Dimensions (mr	n)	Metr.	PG	Туре	Part Number
Top entry					
	PoM 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	M20	PG11	H3A-TG-PG11 H3A-TG-M20	T 1 32 903 1111-000 T 1 32 903 1120-000
Side entry		l .			
	7 G 26.8 36.5	M20	PG11	H3A-TS-PG11 H3A-TS-M20	T 1 31 903 1111-000 T 1 31 903 1120-000
Bulkhead mount	ing: Bottom entry				
1.00	30.0			H3A-AG	T 1 50 903 1100-000
Bulkhead mount	ring: Side entry				
10.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			H3A-AGS	T 1 50 903 1111-000
Surface mountin	ng: Side entry				
6.	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M16 M20	PG11	H3A-AGSV-PG11 H3A-AGSV-M16 H3A-AGSV-M20	T 1 61 903 1111-000 T 1 61 903 1116-000 T 1 61 903 1120-000
Cable-to-cable h	nood:				
6		M20	PG11	H3A-TGVB-PG11 H3A-TGVB-M20	T 1 73 903 1111-000 T 1 73 903 1120-000
Protection cover	rs for hoods (thermoplastic)	1			
6	Note: For mounted male insert and hood			H3A-KDTP	T 1 01 003 1100-000
Protection cover	rs for hoods	-			
White Grey	Note: For mounted female insert and hood			H3A-KDBP (White) H3A-KDBPG (Grey)	T 1 01 003 2100-000 T 1 01 003 2300-000
Covers without	sealing type				
				H3A-KDBP (White) H3A-KDBP (Grey)	T 1 01 003 3200-000



HIP.3/4, HIP-K.3/4, EMV-K.3/4 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Top entry					
	M/PG	M16	11	HIP HIP.3/4.ST0.1.11.G HIP.3/4.ST0.1.M16.G	1-1102600-5 0-1106408-1
	54 M4x22 M3x8	M16 M20	11	HIP-K HIP-K.3/4.ST0.1.11.G HIP-K.3/4.ST0.1.M16.G HIP-K.3/4.ST0.1.M20.G	2-1102600-5 0-1106408-2 0-1106408-3
	51 32	M16 M20	11	EMV-K EMV-K.3/4.ST0.1.11.G EMV-K.3/4.ST0.1.M16.G EMV-K.3/4.ST0.1.M20.G	4-1102700-5 0-1106402-2 0-1106402-3
Surface mounted	housing: Bottom entry				_
	4,3- -22- -32			HIP-K HIP-K.3/4.AG	1-1102603-5 2-1102603-5
	Panel cut-out 21 x 21			EMV-K EMV-K.3/4.AG	4-1102703-5
Surface mounted	housing: Bottom entry (by panel cut-out)				
	51			HIP HIP.3/4.SGF	1-1102602-5
	38 48			HIP-K HIP-K.3/4.SGF	2-1102602-5
	Panel cut-out ø 20			EMV-K EMV-K.3/4.SGF	4-1102702-5



HIP.3/4, HIP-K.3/4, EMV-K.3/4 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Surface mounte	d housing: Side entry		'		
				HIP	
			PG11	HIP.3/4.SG.1.11.G	1-1102601-5
		M16		HIP.3/4.SG.1.M16.G	0-1106407-1
	51 1 31 1 1	M20		HIP.3/4.SG.1.M20.G	0-1106401-4
and the second second second	M3x8			HIP-K	
	38 48		PG11	HIP-K.3/4.SG.1.11.G	2-1102601-5
	4,3	M16		HIP-K.3/4.SG.1.M16.G	0-1106407-2
	 M/PG			EMV-K	
			PG11	EMV-K.3/4.SG.1.11.G	4-1102701-5
		M16		EMV-K.3/4.SG.1.M16.G	0-1106401-2
		M20		EMV-K.3/4.SG.1.M20.G	0-1106401-3
Protective cove	rs for housings	·			
	M4x22			HIP/EMV	
	14			HIP/EMV.3/4.SKB	3-1106200-5
				HIP-K/EMV-K	
	51 32			HIP-K/EMV-K.3/4.SKB	4-1106200-5



HQ-017, 4/2, 8, 10 inserts

INSERTS FOR H8A HOOD/HOUSING

17+ 4/2+ 8+ 10

Dimension (mm)	Туре	Part Number	
		Male insert	Female insert
Crimp terminal (order crimp contacts se	parately)		
250V max. 10A	HQ-017-M	T 2 08 017 2101-000	
F F)	HQ-017-F		T 2 08 017 2201-000
400V/250V max. 40A/10A	HQ-4/2-M	T 2 08 006 2101-100	
	HQ-4/2-F		T 2 08 006 2201-100
	HQ-008-M	T 2 01 909 2101-000	
	HQ-008-F		T 2 01 909 2201-000
	HG-Q.10.Sti.C	0-1108808-1	
	HG-Q.10.Bu.C		0-1103091-1

Suitable crimp contacts and crimping tools: see page 190

HE-Q.4/2	HE-Q.8	HE-Q.10
Contact arrangement Male inse	ert	
1 0 0 3	1 ○ 4 ○ 6 ○ 2 ○ ⊕○ 7 ○ 3 ○ 5 ○ 8 ○	10 20 30 40 50 60 70 80 90 100
Contact arrangement Female in	nsert	
$ \begin{array}{c cccc} 12 & \circ & \circ & 4 \\ & & & \\ 1 & \circ & \circ & 3 \end{array} $	3 0 5 0 8 0 2 0 @ 0 7 0 1 0 4 0 6 0	80 90100 40 50 60 70 10 20 30



Crimp contacts HN.D series

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	g			Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	8 200 200	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0 6.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000		
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0 6.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000		

Crimping tools HN.D series

Description	Туре	Part Number
Crimp tool Wire range: 0.5-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts	CRIMPBOX-0.5/4	T 3 10 000 0001-000
Crimp tool Wire range: 0.14-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts with locator and die	RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CDM/CDF contact series	REMOV-HD	T 3 10 000 0003-000
M3 screw driver Used for HA/HE inserts	SCREWD-M3	T 3 10 000 0009-000



Crimp contacts HE/HA series

16A Contact

Tech data Material: copper alloy Contact	16A Male crimp contacts	ping		Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp contacts, gold-plated		
resistance: ≤1mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	

Crimping tools HE/HA series

Description	Туре	Part Number
Crimp tool Wire range: 0.5-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts	CRIMPBOX-0.5/4	T 3 10 000 0001-000
Crimp tool Wire range: 0.14-4.0mm² Suitable for CDM/CDF and CEM/CEF contacts with locator and die	RSZ.HE-HN.D-HVT	1-1105851-8
Removal tools Used for CEM/CEF contact series	REMOV-HEE	T 3 10 000 0002-000
M3 screw driver Used for HA/HE inserts	SCREWD-M3	T 3 10 000 0009-000



Crimp contacts HGQ10 series

Tech data Material:	Туре	Part Number	(mm²)	Tool
copper alloy Finish: tin plated				
Contact resistance: ≤3mΩ Crimp Terminal: 0.2-4.0 mm² AWG: 24-12	Pin contact tin plated	962966-1 962967-1 962968-1 962969-1	0.2 - 0.4 0.5 - 1.0 1.0 - 2.5 2.5 - 4.0	734285-1 734285-1 734285-2 734285-3
Other finishes and Materials on request	Reel contact/pin tin plated	929962-1 929963-1 929964-1 929965-1	0.2 - 0.4 0.5 - 1.0 1.0 - 2.5 2.5 - 4.0	734285-1 734285-1 734285-2 734285-3
Appl. Spec.: 114-18018	Socket contact tin plated	962976-1 962977-1 962978-1 962979-1	0.2 - 0.4 0.5 - 1.0 1.0 - 2.5 2.5 - 4.0	734285-1 734285-1 734285-2 734285-3
	Reel contact/socket tin plated	929969-1 929970-1 929971-1 929972-1	0.2 - 0.4 0.5 - 1.0 1.0 - 2.5 2.5 - 4.0	734285-1 734285-1 734285-2 734285-3

Crimping tools HGQ10 series

Description	Туре	Part Number
Extraction tool	Extraction tool	1-1579007-8
	Handtool 734285-11,5 mm ² 734285-22,5 mm ² 734285-34,0 mm ²	
Crimping tool with locator	Safety Press SSC-2FP	1481004-7
Bench and Automatic tooling on request	Ergo Die Adapter	1579000-7



H8A with 1 lever on the hoods/housings

THERMOPLASTIC HOODS, HOUSINGS

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	028 St. 20	M20 M25 M25	PG16	H8A-TS-PG16 H8A-TS-M20 H8A-TS-M25 EMV HG-Q-EMV.STO.1.M25.Z	T 1 35 909 0116-000 T 1 31 908 0120-000 T 1 31 908 0125-000
Hood: Top entry		,			1
		M20 M25		H8A-TG-M20 H8A-TG-M25 EMV HG-Q-EMV.STO.1.M25.Z	T 1 32 908 0120-000 T 1 32 908 0125-000 0-1103073-4



HG-Q housings

Plastic glass-fibre reinforced

EMV: Protection against electro-magnetic interference

IP 65

Description		Metr.	PG	Туре	Part Number
Cable-to-cable hoc	od: Bottom entry				
	M25 26.6 45.6	M25		HG-Q.KDO-LB.1.M25.Z EMV HG-Q-EMV.KDO-LB.1.M25.Z	0-1108795-1 0-1108795-3
Cable-to-cable hoc	od: Side entry				
0) 5	\$\begin{align*} 26.6 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	M25		HG-Q.KDS-LB.1.M25.Z EMV HG-Q-EMV.KDS-LB.1.M25.Z	0-1108795-2 0-1108795-4
Surface mount hou	sing: Bottom entry				
10	26,6 37 13,4 34	M25		HG-Q.AG-LB EMV HG-Q-EMV.AG-LB	0-1103072-1



HG-Q.10 motor housings

Plastic glass-fibre reinforced

EMV: Protection against electro-magnetic interference

400V 20A

IP 65

Description	Metr.	PG	Туре	Part Number
			HG-Q.10.MC.1	0-1103092-1
			HG-Q.10-EMV.MC.1	0-1103092-8
			HG-Q.10.MC.2	0-1103092-2
			EMV HG-Q.10-EMV.MC.2	0-1103092-9
			HG-Q.10.MC.3	0-1103092-3
			EMV HG-Q.10-EMV.MC.3	1-1103092-0
			HG-Q.10.MC.4	0-1103092-4
Dimensions (mm) PN A B C 0-1, 0-8 70 58 54	D 66		EMV HG-Q.10-EMV.MC.4	1-1103092-1
0-2, 0-9 70 60 60 0-3, 1-0 74 56 56 0-4, 1-1 75 64 64			HG-Q.10.MC.5	0-1103092-5
0-5, 1-2 120 105 105	120		HG-Q.10-EMV.MC.5	1-1103092-2



HG-Q accessories

Plastic glass-fibre reinforced

EMV: Protection against electro-magnetic interference

SIZE Q

IP 65

Description	Metr.	PG	Туре	Part Number
Flange sealing for HG-Q.8 Surface mount housing				
45.5 8 8 8 8 8			Conductive HG-Q.FI-dicht-L	0-1108794-2
Gland fitting, IP68 plastic				
All glands are supplied with a black M25 nut	M25 (Yellow) M25 (Grey) M25 (Black) M25 (Green) M25 (Red) M25 (White)		HG-Q.M25.6,5/4,0 HG-Q.M25.8,0/5,0 HG-Q.M25.9,5/6,5 HG-Q.M25.10,5/7,0 HG-Q.M25.13,0/9,0 HG-Q.M25.15,5/11,5	0-1103074-1 0-1103074-2 0-1103074-3 0-1103074-4 0-1103074-5 0-1103074-6
Cover for all HG-Q housing				
			Set-HG-Q.8.SKP	0-1108818-1
Coding pin for Q.5 and Q.8, HE, HEE				
23,8 4,4			Sich-Stift.HVE.C	0-1110984-4



HEAV Contact Series



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

2. Standards
DIN EN 60 664-1
DIN EN 61 984

3. Approvals









HEAV/HESAV technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

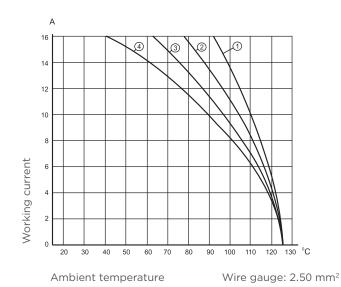
INSERTS

Working current	16A max
(See current carrying capacity)	
Working voltage	500V
Test voltage urms	6KV
Test voltage urms acc. to TUV	4KV
Pollution degree	2
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	-40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

A 16 14 12 10 8 4 4 4 4 Ambient temperature Wire gauge: 1.5 mm²

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
Contact resistance	≤4mΩ
HEAV Terminal	Screw terminal
- mm²	0.2-2.5mm ²
- AWG	24-14
HESAV Terminal	Spring terminal
- mm²	0.5-2.5mm²
- AWG	20-14



HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc to DII	N40 050 IP65

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

HEAV inserts

LEFT HAND VERSION SCREW TERMINAL

500V MAX. 16A

6+ (10+ ((10+ ((10+ ((10+ ((10+ ((10+ ((10+ ((

Dimensions (mm)	Туре	Туре	Part Number		
			Male insert	Female insert	
Screw terminal 6+ 🖫	·				
Mr. was Mr. was	6 mala	HEAV-006-M	T 2 09 006 2101-000		
	6-pole	HEAV-006-F		T 2 09 006 2201-000	
Screw terminal 10+ 🖶					
Marin Marin	10-pole	HEAV-010-M	T 2 09 010 2101-000		
	10 poic	HEAV-010-F		T 2 09 010 2201-000	
Left hand version					
Male insert/ A B Female insert HEAV-006 20 44 HEAV-010 34 57 HEAV-016 54 77.5 HEAV-024 81 104					
Screw terminal 16+ 📳	·				
	16-pole	HEAV-016-M	T 2 09 016 2101-000		
为	16-pole	HEAV-016-F		T 2 09 016 2201-000	
Screw terminal 24+ 😓					
	24-pole	HEAV-024-M	T 2 09 024 2101-000		
59 5	24-pole	HEAV-024-F		T 2 09 024 2201-000	
Left hand version					
Male insert/ A B Female insert A B HEAV-006 20 44 HEAV-010 34 57 HEAV-016 54 77.5 HEAV-024 81 104					



HESAV inserts

LEFT HAND VERSION SPRING TERMINAL

500V MAX. 16A

6+ (±) 10+ (±) 16+ (±) 24+ (±)

Dimensions (mm)		Туре	Туре	Part Number		
				Male insert	Female insert	
Spring terminal 6+ 🖶						
Mixe Mix		6-pole -	HEAV-006-MS	T 2 10 006 3101-000		
line line	d's		HEAV-006-FS		T 2 10 206 3201-000	
Spring terminal 10+ 🗐						
Musik Mus		10-pole	HEAV-010-MS	T 2 10 210 3101-000		
Millipas	4		HEAV-010-FS		T 2 10 210 3201-000	
Left hand version				1		
	Male insert/ Female insert A B HEAV-006 20 44 HEAV-010 34 57 HEAV-016 54 77.5 HEAV-024 81 104					
Spring terminal 16+						
Min. a. Min.		16-pole	HEAV-016-MS	T 2 10 216 3101-000		
Major Major		16-pole	HEAV-016-FS		T 2 10 216 3201-000	
Spring terminal 24+ 🕀						
		24-pole	HEAV-024-MS	T 2 10 224 3101-000		
		Z+ poic	HEAV-024-FS		T 2 10 224 3201-000	
Left hand version						
	Male insert/ Female insert A B HEAV-006 20 44 HEAV-010 34 57 HEAV-016 54 77.5 HEAV-024 81 104					



HMN Modular Series



- Mutually compatible with other brands
- More convenient to install
- Complete series
- Can be developed according to customer requirements
- 1. Specifications

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

2. Standards DIN EN 175 301-801 DIN EN 61 984

3. Approvals





HMN modular connectors overview

H10A



MODULAR UNITS, INSTALL AND REMOVE WITHOUT SPECIAL TOOLS!

Н6В



H10B



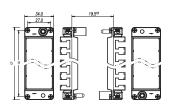
H16B



H24B

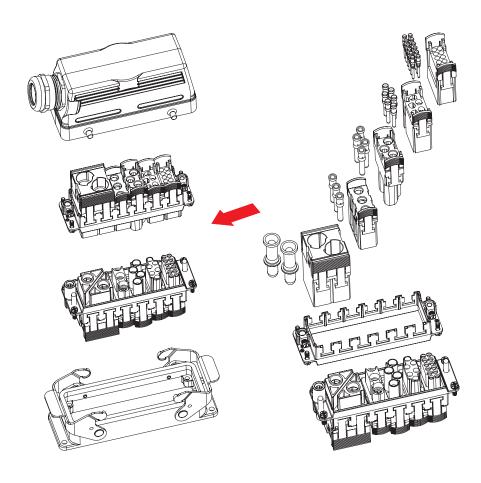


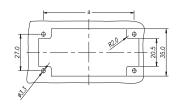
HMN MODULE FIXING FRAME



Hood/Housing	NO. of modules	a	b
H10A	1	49.5	56.5
Н6В	2	44	51
H10B	3	57	64.1
H16B	4	77.5	84.5
H24B	6	104	111

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





Description	Size	Part Number	Туре
H10A frame for 1 modules	H10A	T 2 07 910 4201-000	H10A-T1-M
HIOA frame for I modules	HIUA	T 2 07 910 4101-000	H10A-T1-F
LICD frames for 2 mass dules	LICD	T 2 07 006 4101-000	H6BN-T2-M
H6B frame for 2 modules	H6B	T 2 07 006 4201-000	H6BN-T2-F
H10B frame for 3 modules	H10B	T 2 07 010 4101-000	H10BN-T3-M
		T 2 07 010 4201-000	H10BN-T3-F
LI16D from a fax 4 madulas		T 2 07 016 4101-000	H16BN-T4-M
H16B frame for 4 modules H16	H16B	T 2 07 016 4201-000	H16BN-T4-F
11045	11040	T 2 07 024 4101-000	H24BN-T6-M
H24B frame for 6 modules	H24B	T 2 07 024 4201-000	H24BN-T6-F

Notes	



200A/1 Pole module technical characteristics

Specifications DIN EN 60 664-1 DIN EN 61 984 Number of contacts 1 pole

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	200A max
(See current carrying capacity)	
Working voltage	1000V
Test voltage urms	8KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	-40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

A 400 350 300 250 200 100 150 50 60 70 80 90 100 110 120 130 °C

Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
Contact resistance	≤0.3mΩ
Terminal	Crimp terminal
- mm²	25-70mm²
- ΔWG	2-0

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



HMN-001 module inserts

CRIMP TERMINAL 1000V MAX. 200A

1 Pole

Dimensions (mm)		Туре	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal	Size chart					
	M W	HMN-001-MC	T 2 11 101 3101-000			
5	F J J J	HMN-001-FC		T 2 11 101 3201-000		

Tech data Material: copper	200A Male crimp contacts	Wire gauge	Ø	Stripping length	Crimp cont	tacts, silver-plated
Contact resistance: ≤0.3mΩ	22.59	mm²		mm	Туре	Part Number
Terminal:						
crimp connection CHM/Male		25	7.0	22.5	CHM-25	T 2 06 000 1025-000
		35	8.2	22.5	CHM-35	T 2 06 000 1035-000
STATE OF THE PERSON.		50	10.0	22.5	CHM-50	T 2 06 000 1050-000
		70	11.5	22.5	CHM-70	T 2 06 000 1070-000
CHF/Female	200A Female					
	crimp contacts	25	7.0	22.5	CHF-25	T 2 06 000 2025-000
Accessed to		35	8.2	22.5	CHF-35	T 2 06 000 2035-000
	22.50	50	10.0	22.5	CHF-50	T 2 06 000 2050-000
	45.60	70	11.5	22.5	CHF-70	T 2 06 000 2070-000



100A/2 Poles module technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	100A max
(See current carrying capacity)	
Working voltage	1000V
Test voltage urms	8KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

A 180 160 140 120 100 110 120 130 °C

Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
Contact resistance	≤0.3mΩ
Terminal	Crimp terminal
- mm ²	10-35mm²
- AWG	

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

HMN-D2 module inserts

CRIMP TERMINAL 1000V MAX. 100A

2 Poles

Dimensions (mm)		Туре	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal	Size chart					
	M 223	HMN-D2-MC	T 2 11 102 8101-000			
	F 354 355	HMN-D2-FC		T 2 11 102 8201-000		

Contact arrangement view from termination side





Tech data Material: copper alloy	100A Male crimp contacts	Wire gauge	Ø	Stripping length	Crimp cont	acts, silver-plated
Contact resistance: ≤1mΩ	20.00	mm²		mm	Туре	Part Number
Terminal:		10	4.7	10	0) 1) 4 40	T 0 05 000 1010 000
crimp connection		10	4.3	19	CNM-10	T 2 05 000 1010-000
CDM/Male		16	5.5	19	CNM-16	T 2 05 000 1016-000
		25	7	19	CNM-25	T 2 05 000 1025-000
		35	8.2	16	CNM-35	T 2 05 000 1035-000
CDF/Female	100A Female					
	crimp contacts	10	4.3	19	CNF-10	T 2 05 000 2010-000
		16	5.5	19	CNF-16	T 2 05 000 2016-000
		25	7	19	CNF-25	T 2 05 000 2025-000
	39.50	35	8.2	16	CNF-35	T 2 05 000 2035-000



70A/2 Poles module technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	70A max
(See current carrying capacity)	
Working voltage	1000V
Test voltage urms	8KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

A 100 90 80 90 100 110 120 130 °C

Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
Contact resistance	≤0.5mΩ
Terminal	Crimp terminal
- mm ²	6-22mm²
- AWG	8-4

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

HMN-002 module inserts

CRIMP TERMINAL 1000V MAX. 70A

2 Poles

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Crimp terminal (order crimp contacts separately)	Contact arrangement view from termination side				
	M () () () () () () () () () (HMN-002-MC	T 2 11 102 0101-000		
The state of the s	F O S	HMN-002-FC		T 2 11 102 0201-000	

Male		Wire gauge		A	В	Crimp contact	ts, silver-plated
	<u></u>	mm²	AWG			Туре	Part Number
		10.0mm ² 16.0mm ² 25.0mm ²	AWG7 AWG5 AWG3	4.3 5.5 7.0	5.6 8.5 10.0	CSM-10 CSM-16 CSM-25	T 2 40 000 1100-000 T 2 40 000 1160-000 T 2 40 000 1250-000
Female		10.0mm ² 16.0mm ² 25.0mm ²	AWG7 AWG5 AWG3	4.3 5.5 7.0	5.6 8.5 10.0	CSF-10 CSF-16 CSF-25	T 2 40 000 2100-000 T 2 40 000 2160-000 T 2 40 000 2250-000



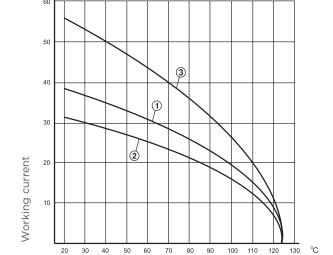
40A/3 Poles module technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	40A max
(See current carrying capacity)	
Working voltage	
Cable ø up to 5mm	690V
Cable ø up to 7.5mm	500V
Test voltage urms	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500



Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
Contact resistance	≤0.3mΩ
Terminal	Crimp terminal
- mm ²	1.0-6mm²
- AWG	

- 1 H24B hood/housing with 6 modules; wire gauge: 6.0mm²
- 2 H24B hood/housing with 6 modules; wire gauge: 4.0mm²
- 3 H24B hood/housing with 6 modules; wire gauge: 10.0mm²

HMN-003 module inserts

CRIMP TERMINAL 690V MAX. 40A

3 Poles

Dimensions (mm)		Type	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal	Size chart					
THE REPORT OF THE PARTY OF THE	34.4 14.6 0 9	HMN-003-M	T 2 11 103 2101-000			
	F 34.4 14.6	HMN-003-F		T 2 11 103 2201-000		

Contact arrangement view from termination side





Tech data Material: copper alloy	40A Male crimp contacts	Wire gauge		Stripping length	Crimp contacts, silver-plated	
Contact resistance: ≤0.3mΩ	250 2300	mm²	AWG	mm	Туре	Part Number
Terminal: crimp connection CMM/Male		1.5 2.5 4.0 6.0 10	16 14 12 10 7	8.0 8.0 8.0 8.0	CMM-1.5 CMM-2.5 CMM-4.0 CMM-6.0 CMM-10	T 2 04 000 1015-000 T 2 04 000 1025-000 T 2 04 000 1040-000 T 2 04 000 1060-000 T 2 04 000 1100-000
CMF/Female	40A Female crimp contacts	1.5 2.5 4.0 6.0 10	16 14 12 10 7	8.0 8.0 8.0 8.0	CMF-1.5 CMF-2.5 CMF-4.0 CMF-6.0 CMF-10	T 2 04 000 2015-000 T 2 04 000 2025-000 T 2 04 000 2040-000 T 2 04 000 2060-000 T 2 04 000 2100-000



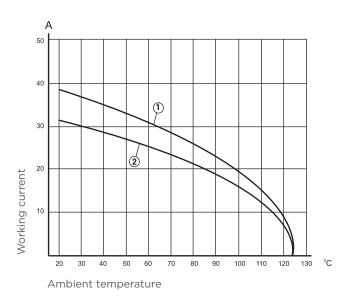
40A/4 Poles module technical characteristics

CURRENT CARRYING CAPACITY

 The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	40A max
(See current carrying capacity)	
Working voltage	
Cable ø up to 5mm	830V
Cable ø up to 7.5mm	500V
Test voltage urms	8KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500



CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
Contact resistance	≤0.3mΩ
Terminal	Crimp terminal
- mm ²	1.0-6mm²
- AWG	18-10

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

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



HMN-004 module inserts

CRIMP TERMINAL 830V MAX. 40A

4 Poles

Dimensions (mm)		Туре	Part Number	Part Number	
			Male insert	Female insert	
Crimp terminal	Size chart				
	34.4 14.5 M	HMN-004-M	T 2 11 104 2101-000		
	F 34.4 14.5	HMN-004-F		T 2 11 104 2201-000	







Tech data Material: copper alloy	40A Male crimp contacts	Wire gauge	9	Stripping length	Crimp cont	acts, silver-plated
Contact resistance: ≤0.3mΩ	9.00	mm²	AWG	mm	Туре	Part Number
Terminal: CHM/Male		1.5 2.5 4.0 6.0 10	16 14 12 10 7	8.0 8.0 8.0 8.0	CMM-1.5 CMM-2.5 CMM-4.0 CMM-6.0 CMM-10	T 2 04 000 1015-000 T 2 04 000 1025-000 T 2 04 000 1040-000 T 2 04 000 1060-000 T 2 04 000 1100-000
CMF/Female	40A Female crimp contacts	1.5 2.5 4.0 6.0 10	16 14 12 10 7	8.0 8.0 8.0 8.0	CMF-1.5 CMF-2.5 CMF-4.0 CMF-6.0 CMF-10	T 2 04 000 2015-000 T 2 04 000 2025-000 T 2 04 000 2040-000 T 2 04 000 2060-000 T 2 04 000 2100-000



16A/5 Poles module technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	16A max
(See current carrying capacity)	
Working voltage	400V
Test voltage urms	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

A 20 18 16 14 12 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 °C

Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤3mΩ
Terminal	Spring terminal
- mm²	0.5-2.5mm²
- AWG	20-14

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

HMN-005 module inserts

SPRING TERMINAL 400V MAX. 16A

5 Poles

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Spring terminal	Size chart			
	34.0 14.6 N	HMN-005-MS	T 2 11 005 2101-000	
	F 34.0 14.6	HMN-005-FS		T 2 11 005 2201-000
Contact arrangement view from termination side				1



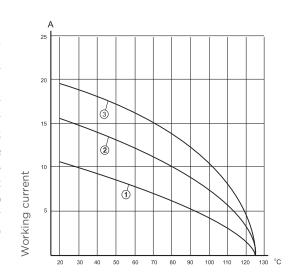
16A/6 Poles module technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	16A max
(See current carrying capacity)	
Working voltage	500/830V
Test voltage urms	
HMN-006-M/F	6KV
HMN-006-PM/F	8KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500



Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤1mΩ
Terminal	Crimp terminal
- mm ²	0.14-4.0mm ²
- AWG	26-12

- 1 H24B hood/housing with 6 modules; wire gauge: 1.5mm²
- 2 H24B hood/housing with 6 modules; wire gauge: 2.5mm²
- 2 H24B hood/housing with 6 modules; wire gauge: 4mm²

HMN-006 module inserts

CRIMP TERMINAL

6 Poles

Dimensions (mm)	Туре	Part Number		
			Male insert	Female insert
Crimp terminal	Contact arrangement view from termination side			
500V max. 16A	M 14.6	HMN-006-M	T 2 11 106 2101-000	
	F 34.4 14.6	HMN-006-F		T 2 11 106 2201-000
830V Max. 16A	M 14.6	HMN-006-PM	T 2 11 106 3101-000	
	F 34.4 14.6	HMN-006-PF		T 2 11 106 3201-000

Tech data Material: copper alloy Contact	16A Male crimp contacts	Wire gaug	ge	Strip- ping length	Crimp cor	ntacts, silver-plated	Crimp con	tacts, gold-plated
resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000



16A/8 Poles module technical characteristics

CURRENT CARRYING CAPACITY

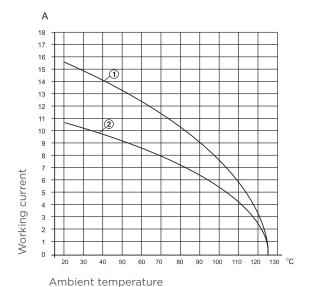
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	16A max
(See current carrying capacity)	
Working voltage	400V
Test voltage urms	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤1mΩ
Terminal	Crimp terminal
- mm ²	0.14-4.0mm²
- AWG	26-12



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



HMN-008 module inserts

CRIMP TERMINAL 400V MAX. 16A

8 Poles

Dimensions (mm)		Type	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal (Order crimp contacts separately)	Size chart					
ie Lu	34.4 M	HMN-008-M	T 2 11 108 2101-000			
	F 34.4 14.6	HMN-008-F		T 2 11 108 2201-000		
Contact arrangement view from termination side		1				

Tech data Material: copper alloy Contact	16A Male crimp contacts	Wire gauge		Strip- ping length Crimp contacts, silver-plated			Crimp contacts, gold-plated		
resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000	
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000	



10A/12 Poles module technical characteristics

CURRENT CARRYING CAPACITY

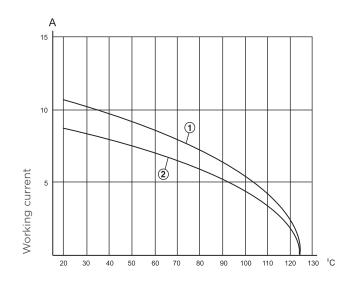
The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	10A max
(See current carrying capacity)	
Working voltage	250V
Test voltage urms	4KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤3mΩ
Terminal	Crimp terminal
- mm²	0.14-2.5mm²
- AWG	26-14



Ambient temperature

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

HMN-012 module inserts

CRIMP TERMINAL 250V MAX. 10A

12 Poles

Dimensions (mm)		Туре	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal (Order crimp contacts separately)	Size chart					
	34.0 J4.6 09	HMN-012-M	T 2 11 112 2101-000			
	F 34.0 14.6	HMN-012-F		T 2 11 112 2201-000		
Contact arrangement view from termination side		,				
M						

Tech data Material: copper alloy	10A Male crimp contacts	Wire gauge		Strip- ping length			Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000	
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000	



10A/17 Poles module technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	10A max
(See current carrying capacity)	
Working voltage	160V
Test voltage urms	2.5KV
Pollution degree	3
Pollution degree acc. to TUV	2
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

A 10 9 8 90 100 110 120 130 °C

Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤3mΩ
Terminal	Crimp terminal
- mm²	0.14-2.5mm²
- AWG	26-14

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



HMN-017 module inserts

CRIMP TERMINAL 160V MAX. 10A

17 Poles

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart			
	34.0 74.6 G	HMN-017-M	T 2 11 117 2101-000	
	F 34.0	HMN-017-F		T 2 11 117 2201-000
Contact arrangement view from termination side				
M :000 F				

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	. , , .		Crimp contacts, gold-plated	
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75	26-22 20 18	8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000	DDM-0.14 DDM-0.5 DDM-0.75	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000
		1.0 1.5 2.5	18 16 14	8.0 8.0 6.0	CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000



16A/20 Poles module technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	16A max
(See current carrying capacity)	
Working voltage	500V
Test voltage urms	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤1mΩ
Terminal	Crimp terminal
- mm²	0.14-4.0mm²
- AWG	26-12

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

HMN-020 module inserts

CRIMP TERMINAL 500V MAX. 16A

20 Poles

Dimensions (mm)		Type	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal (Order crimp contacts separately)	Size chart					
	34.3 29.2 M	HMN-020-M	T 2 11 120 2101-000			
	F 29.2	HMN-020-F		T 2 11 120 2201-000		
Contact arrangement view						

Contact arrangement view from termination side





Tech data Material: copper alloy	16A Male crimp contacts	Wire gau	ge	Strip- ping length	Crimp contacts, silver-plated		Crimp contacts, gold-plated	
Contact resistance: ≤1mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000



5A/25 Poles module technical characteristics

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Working current	5A max
(See current carrying capacity)	
Working voltage	50V
Test voltage urms	0.8KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Mechanical working life-mating cycles	≥500

Ambient temperature

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤1mΩ
Terminal	Crimp terminal
- mm²	0.08-0.52mm²
- AWG	28-20

Turned contacts

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

Stamped contacts

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

HMN-025 module inserts

CRIMP TERMINAL 50V MAX. 5A

25 poles

Dimensions (mm)		Туре	Part Number	Part Number		
			Male insert	Female insert		
Crimp terminal (Order crimp contacts separately)	Size chart					
	M 14.6	HMN-025-M	T 2 11 125 2101-000			
	F 34.0 14.6	HMN-025-F		T 2 11 125 2201-000		
Contact arrangement view from termination side						
M						

Male	163	Wire gauge		Strip- ping length Crimp contacts, silver-plated		Crimp contacts, gold-plated		
	Is	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
		0.08-0.21	28-24	5.0	CAM-08	T 2 07 0001008-000	DAM-08	T 2 07 001 1008-000
		0.13-0.33	26-22	5.0	CAM-13	T 2 07 0001013-000	DAM-13	T 2 07 001 1013-000
		0.33-0.52	22-20	5.0	CAM-33	T 2 07 0001033-000	DAM-33	T 2 07 001 1033-000
Female	months at any	0.08-0.21	28-24	5.0	CAF-08	T 2 07 000 2008-000	DAF-08	T 2 07 001 2008-000
	7 4 35	0.13-0.33	26-22	5.0	CAF-13	T 2 07 000 2013-000	DAF-13	T 2 07 001 2013-000
		0.33-0.52	22-20	5.0	CAF-33	T 2 07 000 2033-000	DAF-33	T 2 07 001 2033-000



D-Sub & RJ45 module technical characteristics

D-SUB MODULE TECHNICAL CHARACTERISTICS

RJ45 MODULE TECHNICAL CHARACTERISTICS

Specifications	DIN EN 60 664-1
	DIN EN 61 984
Number of contacts	9 noles

SpecificationsDIN EN 60 664-1
DIN EN 61 984
Number of contacts8 poles

INSERTS

Working current5A max (See current carrying capacity) Working voltage.....50V Test voltage urms0.8KV Pollution degree3 Insulation resistance $\geq 10^{10}\Omega$ MaterialPolycarbonate Temperature range-40°C... +125°C Flammability acc. to UL94V0 Mechanical working life-mating cycles≥500

INSERTS

Working current	1A max
(See current carrying capacity)	
Working voltage	50V
Test voltage urms	0.8KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +85°C
Flammability acc. to UL94	V0
Mechanical working life-mating cycles	≥500

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤1mΩ
Terminal	Crimp terminal

MODULE WITH RJ45 TERMINAL

Material	Polycarbonate
Temperature range	40°C +70°C
Flammability acc. to UL94	V0
Stranded wire diameter	0.89-0.99mm
Wire gauge	AWG24-26
Material	Polycarbonate
Temperature range	40°C +70°C
Flammability acc. to UL94	V0
Stranded wire diameter	0.94-1.07mm
Wire gauge	



D-Sub/RJ45/USB module inserts

CRIMP TERMINAL

9 Poles & 8 Poles & USB

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart			
	14.6. 35.2	HMN-009-M	T 2 11 109 2101-000	
	14.6. M. F. 35.2	HMN-009-F		T 2 11 109 2201-000
	M I I I I I I I I I I I I I I I I I I I	HMN-RJ45-MC	T 2 11 300 0101-100	
215	F 3	HMN-RJ45-F		T 2 11 300 0201-000
	M 1144	HMN-USB-M	T 2 11 400 0101-000	
	F 15.4	HMN-USB-F		T 2 11 400 0201-000



Quint module technical characteristics

Specifications DIN EN 60 664-1 DIN EN 61 984

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Number of contacts	2
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL 94	V0
Mechanical working life-mating cycles	>500

QUINT CONTACTS

Number of contacts

- Quint 1 + shielding
- Quint 4 + shielding
- High Density Quint 8 + shielding

Working current

- Quint 1
- Quint 4
- Quint 8
Working voltage50V
Test voltage urms0.8KV
Pollution degree
Quint 8 Pollution degree acc. to TUV2
Insulation resistance $\geq 10^{10}~\Omega$
Material Polycarbonate
Temperature range40°C +125°C
Flammability acc. to UL 94V0
Mechanical working life-mating cycles≥500

CONTACTS

Material	Copper alloy
Surface	Hard silver-plated
	Hard gold-plated
Contact resistance	≤3mΩ
Terminal	Crimp terminal
- mm²	
- Quint 1	0.14-4mm²
- Quint 4	0.14-2.5mm²
- Quint 8	0.08-0.52mm²
- AWG	
- Quint 1	26-12
- Quint 4	26-14
- Quint 8	28-20



Quint module inserts

CRIMP TERMINAL

2 Poles

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart		_	
	34.3 29.3	HMN-Q1-M	T 2 11 102 7101-000	
	M	HMN-Q1-F		T 2 11 102 7201-000
		HMN-Q2-M	T 2 11 102 7101-001	
		HMN-Q2-F		T 2 11 102 7201-001
		HMN-Q3-M	T 2 11 102 7101-002	
	34.3 29.3	HMN-Q3-F		T 2 11 102 7201-002
Quint 1-pos				
For 16A crimp contacts				
		PIN-Q1-M	T 2 58 001 1154-000	
		PIN-Q1-F		T 2 58 001 2154-000
Quint 4-pos				
For 10A crimp contacts				
		PIN-Q2-M	T 2 58 003 1154-000	
C C		PIN-Q2-F		T 2 58 003 2154-000
Quint 8-pos				
For D-Sub crimp contacts				
		PIN-Q3-M	T 2 58 008 1154-000	
		PIN-Q3-F		T 2 58 008 2154-000



Dummy module inserts

1

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
	Size chart			
	34.4	HMN-DM	T 3 11 000 9902-000	



HMN-P2, P3 module for pneumatic contacts

PNEUMATIC CONTACTS, MODULAR UNITS, WITH 2 OR 3 SEATS

P2, P3

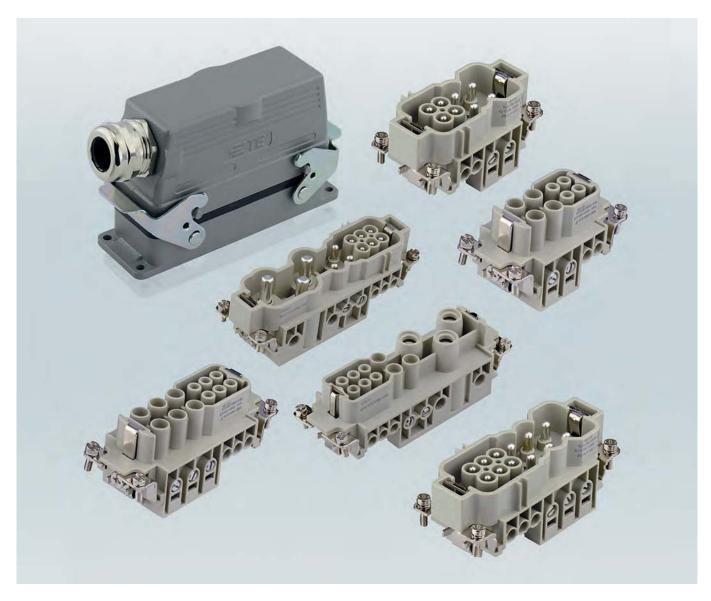
Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
	Contact arrangement view from termination side			
	34.0 WF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HMN-PA3	T 2 11 103 2301-000	
	M/F 27.5	HMN-PA2	T 2 11 102 2301-000	
Pneumatic contacts with or with	out closing valve			
Male contacts without closing v For tubes with internal ø 1.6mm For tubes with internal ø 3.0mm For tubes with internal ø 4.0mm For tubes with internal ø 6.0mm	(For HMN P3 module) (For HMN P3 module) (For HMN P3 module)	Pneu-c-M1.6 Pneu-c-M3.0 Pneu-c-M4.0 Pneu-c-M6.0	T 2 09 000 2101-001 T 2 09 000 2101-002 T 2 09 000 2101-003 T 2 09 000 2101-004	
Female contacts without closing For tubes with internal Ø 1.6mm For tubes with internal Ø 3.0mm For tubes with internal Ø 4.0mm	(For HMN P3 module) (For HMN P3 module)	Pneu-c-F1.6 Pneu-c-F3.0 Pneu-c-F4.0		T 2 09 000 2201-001 T 2 09 000 2201-002 T 2 09 000 2201-003
For tubes with internal ø 6.0mm (For HMN P2 module)		Pneu-c-F6.0		T 2 09 000 2201-004
Female contacts with closing various For tubes with internal Ø 1.6mm For tubes with internal Ø 3.0mm For tubes with internal Ø 4.0mm For tubes with internal Ø 6.0mm Male contacts (use contacts with internal Ø 6.0mm)	(For HMN P3 module) (For HMN P3 module) (For HMN P3 module) (For HMN P3 module)	Pneu-c-Fw1.6 Pneu-c-Fw3.0 Pneu-c-Fw4.0 Pneu-c-Fw6.0		T 2 09 001 2201-001 T 2 09 001 2201-002 T 2 09 001 2201-003 T 2 09 001 2201-004



Notes		



HK, HWK Series



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

2. Standards
DIN EN 60 664-1
DIN EN 61 984

3. Approvals









HK8/24 technical characteristics

SpecificationsDIN EN 60 664-1DIN EN 61 984

CURRENT CARRYING CAPACITY

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

INSERTS

Rated current	
Power contact	16A max
Signal contact	10A max
Working voltage	
Power contact	
Conductor - ground	230V
Conductor - conductor	400V
Signal contact	160V
Test voltage urms	
Power contact	4KV
Signal contact	2.5KV
Pollution degree	2
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V/300V
Mechanical working life-mating cycles	≥500

CONTACTS

Material	Hard silver-plated
Contact resistance	≤3mΩ
- mm² Power contact	
Signal contact	
Powder contact	

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc. to	DIN40 050IP65



HK8/24 inserts

INSERTS FOR H10B HOOD/HOUSING

400V/160V MAX. 16A/10A

8/24+ 🖶

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Crimp terminal (Order crimp contacts separately)					
1 IIII'		HK8/24-032-M	T 2 10 032 2101-000		
THE STATE OF THE S	F 4400	HK8/24-032-F		T 2 10 032 2201-000	

Contact arrangement view from termination side



10A Contact

10A Contact										
Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length			ping			tacts, gold-plated
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000		
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000		

Tech data Material: copper alloy	16A Male crimp contacts	Wire gaug	ge	Strip- ping length	ping			acts, silver-plated Crimp contacts, gold-plated		
Contact resistance: ≤1mΩ	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number		
Terminal: crimp connection CEM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEM-0.3 CEM-0.5 CEM-0.75 CEM-1.0 CEM-1.5 CEM-2.5 CEM-4.0	T 2 03 000 1002-000 T 2 03 000 1005-000 T 2 03 000 1008-000 T 2 03 000 1010-000 T 2 03 000 1015-000 T 2 03 000 1025-000 T 2 03 000 1040-000	DEM-0.3 DEM-0.5 DEM-0.75 DEM-1.0 DEM-1.5 DEM-2.5 DEM-4.0	T 2 03 001 1002-000 T 2 03 001 1005-000 T 2 03 001 1008-000 T 2 03 001 1010-000 T 2 03 001 1015-000 T 2 03 001 1025-000 T 2 03 001 1040-000		
CEF/Female	16A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5 4.0	26-22 20 18 18 16 14	7.5 7.5 7.5 7.5 7.5 7.5 7.5	CEF-0.3 CEF-0.5 CEF-0.75 CEF-1.0 CEF-1.5 CEF-2.5 CEF-4.0	T 2 03 000 2002-000 T 2 03 000 2005-000 T 2 03 000 2008-000 T 2 03 000 2010-000 T 2 03 000 2015-000 T 2 03 000 2025-000 T 2 03 000 2040-000	DEF-0.3 DEF-0.5 DEF-0.75 DEF-1.0 DEF-1.5 DEF-2.5 DEF-4.0	T 2 03 001 2002-000 T 2 03 001 2005-000 T 2 03 001 2008-000 T 2 03 001 2010-000 T 2 03 001 2015-000 T 2 03 001 2025-000 T 2 03 001 2040-000		



H10B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M20 M25	PG16 PG21	H10B-TS-PG16 H10B-TS-PG21 H10B-TS-M20 H10B-TS-M25	T 1 21 010 0116-000 T 1 21 010 0121-000 T 1 21 010 0120-000 T 1 21 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TSH-PG21 H10B-TSH-PG29 H10B-TSH-M20 H10B-TSH-M25 H10B-TSH-M32	T 1 23 010 0121-000 T 1 23 010 0129-000 T 1 23 010 0120-000 T 1 23 010 0125-000 T 1 23 010 0132-000
Hood: Top entry					
	Low construction	M20 M25	PG16 PG21	H10B-TG-PG16 H10B-TG-PG21 H10B-TG-M20 H10B-TG-M25	T 1 22 010 0116-000 T 1 22 010 0121-000 T 1 22 010 0120-000 T 1 22 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TGH-PG21 H10B-TGH-PG29 H10B-TGH-M20 H10B-TGH-M25 H10B-TGH-M32	T 1 24 010 0121-000 T 1 24 010 0129-000 T 1 24 010 0120-000 T 1 24 010 0125-000 T 1 24 010 0132-000
Cable-to-cable hoc	od				
	Construction H Low 62.5 Hight 74.5	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBFS-PG16 H10B-TBFS-M20 H10B-TBFS-M25 H10B-TBFHS-PG21 H10B-TBFHS-PG29 H10B-TBFHS-M25 H10B-TBFHS-M32	T 1 71 010 1116-000 T 1 71 010 1120-000 T 1 71 010 1125-000 T 1 75 010 1121-000 T 1 75 010 1129-000 T 1 75 010 1125-000 T 1 75 010 1125-000 T 1 75 010 1132-000
Protection covers f	or hoods				
Ser.	70.4			H10B-KDTP	T 1 01 010 1400-000
Housing protection	n cover				
	78.5			H10B-KDBP	T 1 01 010 2100-000



H10B with 2 levers on the hoods/housings

Dimensions (mm)	Metr.	PG	Туре	Part Number	
Bulkhead mounted						
	12.0 S3.0 C3.4 12.0 S3.0 C3.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 1			H10B-AGS	T 1 41 010 1000-000	
Surface mounted	: Side entry					
Wind Control	1 Side entry 2 Side entry Low construction	M20 M25 M20 M25	PG16 PG21 PG16 PG21	H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25	T 1 44 010 1116-000 T 1 44 010 1121-000 T 1 44 010 1120-000 T 1 44 010 1125-000 T 1 44 010 1216-000 T 1 44 010 1221-000 T 1 44 010 1220-000 T 1 44 010 1225-000	
	Note only 130 Note only	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H10B-SGRHS-PG21 H10B-SGRHS-PG29 H10B-SGRHS-M25 H10B-SGRHS-M32 H10B-SGRHS-2PG21 H10B-SGRHS-2PG29 H10B-SGRHS-2M25 H10B-SGRHS-2M32	T 1 47 010 1121-000 T 1 47 010 1129-000 T 1 47 010 1125-000 T 1 47 010 1132-000 T 1 47 010 1221-000 T 1 47 010 1229-000 T 1 47 010 1225-000 T 1 47 010 1232-000	
Side entry housir	ng with two levers					
	Low construction	M20 M25	PG16 PG21	H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25	T 1 25 010 3116-000 T 1 25 010 3121-000 T 1 25 010 3120-000 T 1 25 010 3125-000	
Sec. 3	Construction H Low 60 Hight 72	M25 M32	PG21 PG29	H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32	T 1 27 010 3121-000 T 1 27 010 3129-000 T 1 27 010 3125-000 T 1 27 010 3132-000	
Top entry housing	g with two levers					
Jos.	Construction H Low 60 Hight 72	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H10B-TGBS-PG16 H10B-TGBS-PG21 H10B-TGBS-M20 H10B-TGBS-M25 H10B-TGBHS-PG21 H10B-TGBHS-PG29 H10B-TGBHS-M25 H10B-TGBHS-M32	T 1 26 010 3116-000 T 1 26 010 3121-000 T 1 26 010 3120-000 T 1 26 010 3125-000 T 1 28 010 3121-000 T 1 28 010 3129-000 T 1 28 010 3125-000 T 1 28 010 3132-000	
Bulkhead mounted with 4 bolts						
	1.5de entry 2.5de	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H10B-AD-BO H10B-SDR-BO-PG16 H10B-SDR-BO-PG21 H10B-SDR-BO-M20 H10B-SDR-BO-2PG16 H10B-SDR-BO-2PG21 H10B-SDR-BO-2M20 H10B-SDR-BO-2M25	T 1 43 010 0000-000 T 1 46 010 0116-000 T 1 46 010 0121-000 T 1 46 010 0125-000 T 1 46 010 0216-000 T 1 46 010 0221-000 T 1 46 010 0225-000 T 1 46 010 0225-000	
	1 1 1 1 1 1 1 1 1 1	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H10B-SDR-BO-2M25 H10B-SDRH-BO-PG21 H10B-SDRH-BO-M25 H10B-SDRH-BO-M32 H10B-SDRH-BO-2PG21 H10B-SDRH-BO-2PG29 H10B-SDRH-BO-2M25 H10B-SDRH-BO-2M32	T 1 49 010 0225-000 T 1 49 010 0121-000 T 1 49 010 0125-000 T 1 49 010 0132-000 T 1 49 010 0221-000 T 1 49 010 0225-000 T 1 49 010 0225-000 T 1 49 010 0232-000	



H10B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M20 M25	PG16 PG21	H10B-TS-RO-PG16 H10B-TS-RO-PG21 H10B-TS-RO-M20 H10B-TS-RO-M25	T 1 31 010 0116-000 T 1 31 010 0121-000 T 1 31 010 0120-000 T 1 31 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TSH-RO-PG21 H10B-TSH-RO-PG29 H10B-TSH-RO-M20 H10B-TSH-RO-M25 H10B-TSH-RO-M32	T 1 33 010 0121-000 T 1 33 010 0129-000 T 1 33 010 0120-000 T 1 33 010 0125-000 T 1 33 010 0132-000
Hood: Top entry					
	Low construction	M20 M25	PG16 PG21	H10B-TG-RO-PG16 H10B-TG-RO-PG21 H10B-TG-RO-M20 H10B-TG-RO-M25	T 1 32 010 0116-000 T 1 32 010 0121-000 T 1 32 010 0120-000 T 1 32 010 0125-000
	High construction	M20 M25 M32	PG21 PG29	H10B-TGH-RO-PG21 H10B-TGH-RO-PG29 H10B-TGH-RO-M20 H10B-TGH-RO-M25 H10B-TGH-RO-M32	T 1 34 010 0121-000 T 1 34 010 0129-000 T 1 34 010 0120-000 T 1 34 010 0125-000 T 1 34 010 0132-000
Cable-to-cable hoo	d				
	Construction H Low 62.5 Hight 74.5	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBF-LB-PG16 H10B-TBF-LB-M20 H10B-TBF-LB-M25 H10B-TBFH-LB-PG21 H10B-TBFH-LB-PG29 H10B-TBFH-LB-M25 H10B-TBFH-LB-M32	T 1 73 010 3116-000 T 1 73 010 3120-000 T 1 73 010 3125-000 T 1 77 010 3121-000 T 1 77 010 3129-000 T 1 77 010 3125-000 T 1 77 010 3132-000
Protection covers for hoods					
				H10B-KDTP-LB	T 1 01 010 1500-000



H10B with 1 lever on the hoods/housings

Dimensions (mn	n)	Metr.	PG	Туре	Part Number
Bulkhead mount	red				
	5100 444 22.30 43.50 E			H10B-AG-LB	T 1 50 010 3000-000
	With protection cover			H10B-AD-LB H10B-ADM-LB	T 1 51 010 3000-000 T 1 51 010 3001-000
Surface mounted	d: Side entry				
	Low construction A B H Hight 45 57 74 Hight 45 57 74	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H10B-SGR-LB-PG16 H10B-SGR-LB-PG21 H10B-SGR-LB-M20 H10B-SGR-LB-M25 H10B-SGR-LB-2PG16 H10B-SGR-LB-2PG21 H10B-SGR-LB-2M25 H10B-SGR-LB-PM25 H10B-SGRH-LB-PG21 H10B-SGRH-LB-M25 H10B-SGRH-LB-M25 H10B-SGRH-LB-M25 H10B-SGRH-LB-M25 H10B-SGRH-LB-M32 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG21 H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2PG29	T 1 61 010 3116-000 T 1 61 010 3121-000 T 1 61 010 3120-000 T 1 61 010 3125-000 T 1 61 010 3216-000 T 1 61 010 3221-000 T 1 61 010 3221-000 T 1 61 010 3225-000 T 1 65 010 3125-000 T 1 65 010 3225-000 T 1 65 010 3232-000
	With protection cover Construction A B H Low 40 52 54 Hight 45 57 74	M20 M25 M20 M25 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H10B-SDR-LB-PG16 H10B-SDR-LB-PG21 H10B-SDR-LB-M20 H10B-SDR-LB-M25 H10B-SDR-LB-2PG16 H10B-SDR-LB-2PG21 H10B-SDR-LB-2M20 H10B-SDR-LB-2M25 H10B-SDRH-LB-PG21 H10B-SDRH-LB-PG29 H10B-SDRH-LB-M25 H10B-SDRH-LB-M25 H10B-SDRH-LB-M25 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M32	T 1 62 010 3116-000 T 1 62 010 3121-000 T 1 62 010 3120-000 T 1 62 010 3125-000 T 1 62 010 3216-000 T 1 62 010 3221-000 T 1 62 010 3225-000 T 1 66 010 3125-000 T 1 66 010 3225-000 T 1 66 010 3232-000



HIP.10/24, HIP-K.10/24, EMV-K.10/24 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar

IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Side entry,	Standard construction				
		M25	16 21	HIP HIP.10/24.STS.1.16.G HIP.10/24.STS.1.21.G HIP.10/24.STS.1.M25.G	1-1102640-5 1-1102642-5 0-1106436-2
	MPG R	M25 M32	21	HIP-K HIP-K.10/24.STS.1.21.G HIP-K.10/24.STS.1.M25.G HIP-K.10/24.STS.1.M32.G	2-1102642-5 0-1106436-4 0-1106436-6
	109	M25 M32	21	EMV-K EMV-K.10/24.STS.1.21.G EMV-K.10/24.STS.1.M25.G EMV-K.10/24.STS.1.M32.G	4-1102714-5 0-1106427-3 1-1106427-0
Hood: Top entry					
	MPG 95 109	M25 M25 M32	16 21 16	HIP HIP.10/24.STO.1.16.G HIP.10/24.STO.1.21.G HIP.10/24.STO.1.M25.G HIP-K HIP-K HIP-K.10/24.STO.1.16.G HIP-K.10/24.STO.1.M25.G HIP-K.10/24.STO.1.M32.G EMV-K	1-1102644-5 1-1102646-5 0-1106436-1 2-1102644-5 0-1106436-3 0-1106436-5
		M25	21	EMV-K.10/24.STO.1.21.G EMV-K.10/24.STO.1.M25.G	4-1102715-5 0-1106427-4
Surface mounted	housing: Bottom entry	'	'		
	83 64.5————————————————————————————————————			HIP HIP.10/24.AG HIP-K HIP-K.10/24.AG EMV-K EMV-K.10/24.AG	1-1102647-5 2-1102647-5 4-1102718-5



HIP.10/24, HIP-K.10/24, EMV-K.10/24 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Description		Metr.	PG	Туре	Part Number
Surface mounted h	nousing: Bottom entry				
	M6x20 92 109 Panel cut-out M6 43 36 65 92			HIP HIP.10/24.AG.M6 HIP-K HIP-K.10/24.AG.M6 EMV-K EMV-K.10/24.AG.M6	1-1102612-5 2-1102612-5 4-1102720-5
Surface mounted h	nousing: Side entry				
	109 MPG 82 0 5.6 103 103	2xM32 2xM32	21 2x21 21 2x21 21 2x21	HIP HIP.10/24.SG.1.21.G HIP.10/24.SG.2.21.G HIP.10/24.SG.2.M32.G HIP-K HIP-K.10/24.SG.1.21.G HIP-K.10/24.SG.2.21.G EMV-K EMV-K.10/24.SG.1.21.G EMV-K.10/24.SG.2.21.G EMV-K.10/24.SG.2.21.G	1-1102610-5 1-1102611-5 0-1106435-1 5-1102610-5 2-1102611-5 5-1102716-5 4-1102717-5 0-1106426-2
Protective covers f	for hoods and housing				
	M6x30 109 109 53			HIP HIP/EMV.10/24.SKB HIP-K/EMV-K HIP-K/EMV-K.10/24.SKB	3-1106202-5 4-1106202-5



HWK 6/6 technical characteristics

Specifications DIN EN 60 664-1 DIN EN 61 984 Number of contacts 6/6+PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Rated current	
Power contact	40A max
Signal contact	16A max
Working voltage	
Power contact	690V
Signal contact	400V
Test voltage urms	
Power contact	6KV
Signal contact	4KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V
Mechanical working life-mating cycles	≥500

CONTACTS

MaterialCopper alloy
SurfaceHard silver-plated
Hard gold-plated
Contact resistance
Power contact $\leq 0.3 m\Omega$
Signal contact $\leq 1 m\Omega$
Terminal Screw terminal
- mm ²
Power contact
Signal contact
- AWG
Power contact
Signal contact
- Tightening/test torque
Power contact
Signal contact

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc. to	o DIN40 050IP65



HWK 6/6 inserts

690V MAX. 35A/16A

INSERTS FOR H16B HOOD/HOUSING

6/6 🖶

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Screw terminal	Contact arrangement view from termination side			
a Salara	P	HWK6/6-012-M	T 2 10 606 2101-000	
4 STATES	3 • • 4 4 • 3 2 • 1 • • • F	HWK6/6-012-F		T 2 10 606 2201-000



HK4/0, HK4/2 technical characteristics

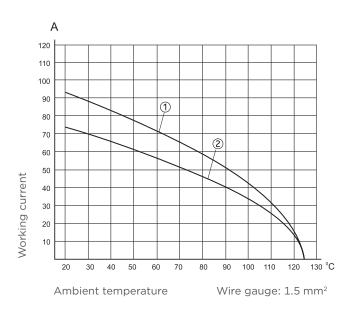
Specifications DIN EN 60 664-1 DIN EN 61 984 Number of contacts 4/0, 4/2 + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Rated current
Power contact80A max
Signal contact16A max
(See current carrying capacity)
Working voltage
Power contact
Signal contact
Test voltage urms
Power contact
Signal contact
Pollution degree3
Insulation resistance $$
Material Polycarbonate
Temperature range40°C +125°C
Flammability acc. to UL94V0
Working voltage acc. to UL/CSA600V/300V
Mechanical working life-mating cycles≥500



1 Wire gauge: 16mm²2 Wire gauge: 10mm²

CONTACTS

MaterialCopper alloy
SurfaceHard silver-plated
Hard gold-plated
Contact resistance
Power contact $\leq 0.3 m\Omega$
Signal contact
Terminal Screw terminal
- mm ²
Power contact
Signal contact 0.5-2.5mm²
- AWG
Power contact
Signal contact
- Tightening/test torque
Power contact 1.2 Nm
Signal contact 0.5 Nm

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	-40°C +125°C
Degree of protection acc. to	DIN40 050IP65



HK4/0, HK4/2 inserts

INSERTS FOR H16B HOOD/HOUSING

690V/400V MAX. 80A/16A

4/0+ (4/2+ (

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Screw terminal	Size chart				
THE PARTY OF THE P	71.89 M	HK4/0-004-M	T 2 10 004 2101-000		
A TO THE TOP	F AMADE AND	HK4/0-004-F		T 2 10 004 2201-000	

Contact arrangement view from termination side





Dimensions (mm)	mensions (mm)		Part Number		
			Male insert	Female insert	
Screw terminal	Size chart				
Mary 12 may	7.50 M	HK4/2-006-M	T 2 10 006 2101-000		
· 有一个	F B B B B B B B B B B B B B B B B B B B	HK4/2-006-F		T 2 10 006 2201-000	

Contact arrangement view from termination side





HK12/2 technical characteristics

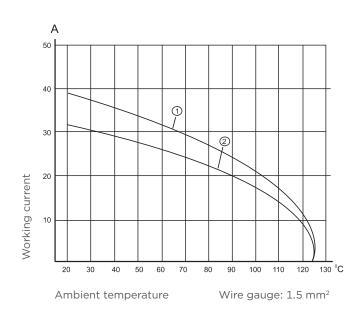
Specifications DIN EN 60 664-1 DIN EN 61 984 Number of contacts 12/2 + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Rated current
Power contact40A max
Signal contact
(See current carrying capacity)
Working voltage
Power contact690V
Signal contact
Test voltage urms
Power contact8KV
Signal contact
Pollution degree3
Insulation resistance
MaterialPolycarbonate
Temperature range40°C +125°C
Flammability acc. to UL94V0
Working voltage acc. to UL/CSA 600V/300V
Mechanical working life-mating cycles≥500



1 Wire gauge: 6.0mm²2 Wire gauge: 4.0mm²

CONTACTS

Material	
	·
	Hard gold-plated
Contact resistance	
Power contact	≤0.3mΩ
Signal contact	≤3mΩ
Terminal	Crimp terminal
- mm²	
Power contact	1-6mm²
Signal contact	0.14-2.5mm ²
- AWG	
Power contact	18-10
Signal contact	26-14

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	-40°C +125°C
Degree of protection acc. to D	IN40 050IP65



HK12/2 inserts

INSERT FOR H16B HOOD/HOUSING

690V/250V MAX. 40A/10A

12/2+🖶

Dimensions (mm)		Туре	Part Number	
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart			
The state of the s	M THE STATE OF THE	HK12/2-014-M	T 2 12 014 2101-000	
	F NAME OF THE PARTY OF THE PART	HK12/2-014-F		T 2 12 014 2201-000
Contact arrangement view from termination side				
(

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gaug	/ire gauge		Crimp con	tacts, silver-plated	Crimp contacts, gold-plated	
Contact resistance: ≤3mΩ	200 200	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0 6.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000

Tech data Material:	40A Male crimp contacts	Wire gau	Wire gauge		Crimp con	Crimp contacts, silver-plated	
copper alloy Contact resistance: ≤0.3mΩ	950 . 200	mm²	AWG	mm	Туре	Part Number	
Terminal: crimp connection CMM/Male		1.5 2.5 4.0 6.0	16 14 12 10	8.0 8.0 8.0 8.0	CMM-1.5 CMM-2.5 CMM-4.0 CMM-6.0	T 2 04 000 1015-000 T 2 04 000 1025-000 T 2 04 000 1040-000 T 2 04 000 1060-000	
CMF/Female	40A Female crimp contacts	1.5 2.5 4.0 6.0 10	16 14 12 10 7	8.0 8.0 8.0 8.0 8.0	CMF-1.5 CMF-2.5 CMF-4.0 CMF-6.0 CMF-10	T 2 04 000 2015-000 T 2 04 000 2025-000 T 2 04 000 2040-000 T 2 04 000 2060-000 T 2 04 000 2100-000	



HK6/36 technical characteristics

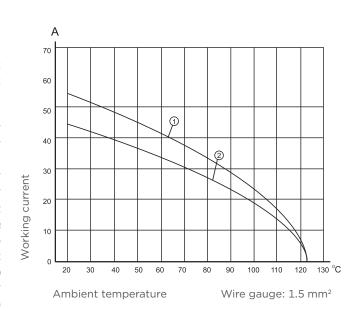
Specifications DIN EN 60 664-1 DIN EN 61 984 Number of contacts 6/36 + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Rated current	
Power contact	40A max
Signal contact	10A max
(See current carrying capacity)	
Working voltage	
Power contact	690V
Signal contact	160V
Test voltage urms	
Power contact	6KV
Signal contact	2.5KV
Pollution degree	2
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V/300V
Mechanical working life-mating cycles	≥500



1 Wire gauge: 6.0mm²2 Wire gauge: 4.0mm²

CONTACTS

Material	b
Contact resistance	
Power contact≤0.3mS	2
Signal contact≤3mΩ	2
Terminal Crimp termina	ı
- mm ²	
Power contact1-6mm	2
Signal contact	2
- AWG	
Power contact18-10)
Signal contact	1

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	-40°C +125°C
Degree of protection acc. to DI	N40 050IP65

HK6/36 inserts

INSERT FOR H16B HOOD/HOUSING

690V/250V MAX. 40A/10A

6/36+🖶

Dimensions (mm)	Туре	Part Number		
			Male insert	Female insert
Crimp terminal (Order crimp contacts separately)	Size chart			
J. sales	M 1789	HK6/36-042-M	T 2 12 042 2101-000	
	F 25.50	HK6/36-042-F		T 2 12 042 2201-000
Contact arrangement view from termination side		<u>'</u>		

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	Crimp con	tacts, silver-plated	Crimp contacts, gold-plated	
Contact resistance: ≤3mΩ	3 2.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0 6.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000

Tech data Material:	40A Male crimp contacts	Wire gau	Wire gauge		Crimp cont	Crimp contacts, silver-plated	
copper alloy Contact resistance: ≤0.3mΩ	20.00	mm²	AWG	mm	Туре	Part Number	
Terminal: crimp connection CMM/Male		1.5 2.5 4.0 6.0	16 14 12 10	8.0 8.0 8.0 8.0	CMM-1.5 CMM-2.5 CMM-4.0 CMM-6.0	T 2 04 000 1015-000 T 2 04 000 1025-000 T 2 04 000 1040-000 T 2 04 000 1060-000	
CMF/Female	40A Female crimp contacts	1.5 2.5 4.0 6.0 10	16 14 12 10 7	8.0 8.0 8.0 8.0 8.0	CMF-1.5 CMF-2.5 CMF-4.0 CMF-6.0 CMF-10	T 2 04 000 2015-000 T 2 04 000 2025-000 T 2 04 000 2040-000 T 2 04 000 2060-000 T 2 04 000 2100-000	



H16B with 2 levers on the hoods/housings

Dimensions (mm)			PG	Туре	Part Number				
Hood: Side entry									
	Low construction	M20 M25 M32	PG16 PG21	H16B-TS-PG16 H16B-TS-PG21 H16B-TS-M20 H16B-TS-M25 H16B-TS-M32	T 1 21 016 0116-000 T 1 21 016 0121-000 T 1 21 016 0120-000 T 1 21 016 0125-000 T 1 21 016 0132-000				
	High construction	M25 M32 M40	PG21 PG29	H16B-TSH-PG21 H16B-TSH-PG29 H16B-TSH-M25 H16B-TSH-M32 H16B-TSH-M40	T 1 23 016 0121-000 T 1 23 016 0129-000 T 1 23 006 0125-000 T 1 23 016 0132-000 T 1 23 016 0140-000				
Hood: Top entry		I		I					
	Low construction	M25 M32	PG16 PG21	H16B-TG-PG16 H16B-TG-PG21 H16B-TG-M25 H16B-TG-M32	T 1 22 016 0116-000 T 1 22 016 0121-000 T 1 22 016 0125-000 T 1 22 016 0132-000				
	High construction	M25 M32 M40	PG21 PG29	H16B-TGH-PG21 H16B-TGH-PG29 H16B-TGH-M25 H16B-TGH-M32 H16B-TGH-M40	T 1 24 016 0121-000 T 1 24 016 0129-000 T 1 24 016 0125-000 T 1 24 016 0132-000 T 1 24 016 0140-000				
Cable-to-cable hoc	pd			1					
	Construction H Low 62.5 Hight 74.5	M25 M32 M25 M32 M40	PG21 PG21 PG29	H16B-TBFS-PG21 H16B-TBFS-M25 H16B-TBFS-M32 H16B-TBFHS-PG21 H16B-TBFHS-PG29 H16B-TBFHS-M25 H16B-TBFHS-M32 H16B-TBFHS-M40	T 1 71 016 1121-000 T 1 71 016 1125-000 T 1 71 016 1132-000 T 1 75 016 1121-000 T 1 75 016 1129-000 T 1 75 016 1125-000 T 1 75 016 1132-000 T 1 75 016 1132-000 T 1 75 016 1140-000				
Protection covers f	or hoods	I		T	T				
C. A.	930			H16B-KDTP	T 1 01 016 1400-000				
Housing protection	Housing protection cover								
0.	99.00			H16B-KDBP	T 1 01 016 2100-000				



H16B with 2 levers on the hoods/housings

Dimensions (mm	1)	Metr.	PG	Туре	Part Number
Bulkhead mount	ed				
	12.00 St.40 12.00			H16B-AGS	T 1 41 016 1000-000
Surface mounted	d: Side entry	I	I	I	
	1 Side entry 2 Side entry 1 Sid	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 H16B-SGRHS-PG21 H16B-SGRHS-PG29 H16B-SGRHS-M25 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2M25 H16B-SGRHS-2M32	T 1 44 016 1121-000 T 1 44 016 1125-000 T 1 44 016 1221-000 T 1 44 016 1225-000 T 1 47 016 1121-000 T 1 47 016 1129-000 T 1 47 016 1125-000 T 1 47 016 1122-000 T 1 47 016 1221-000 T 1 47 016 1225-000 T 1 47 016 1232-000
Side entry housing	ng with two levers				
V.c. C.	High construction	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25 H16B-TSBHS-PG21 H16B-TSBHS-PG29 H16B-TSBHS-M25 H16B-TSBHS-M32	T 1 25 016 3116-000 T 1 25 016 3121-000 T 1 25 016 3120-000 T 1 25 016 3125-000 T 1 27 016 3121-000 T 1 27 016 3129-000 T 1 27 016 3125-000 T 1 27 016 3132-000
Top entry housin	g with two levers				
70 9	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25 H16B-TGBHS-PG21 H16B-TGBHS-PG29 H16B-TGBHS-M25 H16B-TGBHS-M32	T 1 26 016 3116-000 T 1 26 016 3121-000 T 1 26 016 3120-000 T 1 26 016 3125-000 T 1 28 016 3121-000 T 1 28 016 3129-000 T 1 28 016 3125-000 T 1 28 016 3132-000
Bulkhead mount	ed with 4 bolts	ı		T	
	Side entry 15th entry 25th entry 15th entry 25th entry 15th entry 15t	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H16B-AD-BO H16B-SDR-BO-PG21 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25 H16B-SDRH-BO-PG21 H16B-SDRH-BO-PG29 H16B-SDRH-BO-M25 H16B-SDRH-BO-M32 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG29 H16B-SDRH-BO-2PG29	T 1 43 016 0000-000 T 1 46 016 0121-000 T 1 46 016 0125-000 T 1 46 016 0221-000 T 1 49 016 0125-000 T 1 49 016 0221-000 T 1 49 016 0221-000 T 1 49 016 0225-000 T 1 49 016 0225-000 T 1 49 016 0225-000 T 1 49 016 0232-000



H16B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number
Hood: Side entry					
	Low construction	M25 M32	PG21 PG29	H16B-TS-RO-PG21 H16B-TS-RO-PG29 H16B-TS-RO-M25 H16B-TS-RO-M32	T 1 31 016 0121-000 T 1 31 016 0129-000 T 1 31 016 0125-000 T 1 31 016 0132-000
	High construction	M25 M32 M40	PG21 PG29	H16B-TSH-RO-PG21 H16B-TSH-RO-PG29 H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40	T 1 33 016 0121-000 T 1 33 016 0129-000 T 1 33 016 0125-000 T 1 33 016 0132-000 T 1 33 016 0140-000
Hood: Top entry					
	Low construction	M25 M32	PG21 PG29	H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25 H16B-TG-RO-M32	T 1 32 016 0121-000 T 1 32 016 0129-000 T 1 32 016 0125-000 T 1 32 016 0132-000
	High construction	M25 M32 M40	PG21 PG29	H16B-TGH-RO-PG21 H16B-TGH-RO-PG29 H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	T 1 34 016 0121-000 T 1 34 016 0129-000 T 1 34 016 0125-000 T 1 34 016 0132-000 T 1 34 016 0140-000
Cable-to-cable hoc	od				
	Construction H Low 62.5	M25 M32	PG21 PG29 PG21 PG29	H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29	T 1 73 016 3121-000 T 1 73 016 3129-000 T 1 73 016 3125-000 T 1 73 016 3132-000 T 1 77 016 3121-000 T 1 77 016 3129-000
	Hight 74.5	M25 M32 M40		H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40	T 1 77 016 3125-000 T 1 77 016 3132-000 T 1 77 016 3140-000
Protection covers f	or hoods		ı	T	
				H16B-KDTP-LB	T 1 01 016 1500-000



H16B with 1 lever on the hoods/housings

Dimensions (mr	n)		Metr.	PG	Туре	Part Number
Bulkhead mount	ted					
	SS (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1				H16B-AG-LB	T 1 50 016 3000-000
	With protection cover				H16B-AD-LB	T 1 51 016 3000-000
Surface mounte	d: Side entry					
	Construction H Low 56 Hight 81	1 Side entry 2 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H16B-SGR-LB-PG16 H16B-SGR-LB-PG21 H16B-SGR-LB-M20 H16B-SGR-LB-M25 H16B-SGR-LB-2PG16 H16B-SGR-LB-2PG21 H16B-SGR-LB-2M20 H16B-SGR-LB-2M25 H16B-SGRH-LB-PG21 H16B-SGRH-LB-PG29 H16B-SGRH-LB-M25 H16B-SGRH-LB-M32 H16B-SGRH-LB-M32 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2M32	T 1 61 016 3116-000 T 1 61 016 3121-000 T 1 61 016 3120-000 T 1 61 016 3125-000 T 1 61 016 3216-000 T 1 61 016 3221-000 T 1 61 016 3225-000 T 1 65 016 3125-000 T 1 65 016 3225-000 T 1 65 016 3232-000
	With protection cover Construction H Low 56 Hight 81	1 Side entry 2 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29 PG21 PG29	H16B-SDR-LB-PG16 H16B-SDR-LB-PG21 H16B-SDR-LB-M20 H16B-SDR-LB-M25 H16B-SDR-LB-2PG16 H16B-SDR-LB-2M20 H16B-SDR-LB-2M20 H16B-SDR-LB-2M25 H16B-SDRH-LB-PG21 H16B-SDRH-LB-PG29 H16B-SDRH-LB-M35 H16B-SDRH-LB-M32 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M32	T 1 62 016 3116-000 T 1 62 016 3121-000 T 1 62 016 3120-000 T 1 62 016 3125-000 T 1 62 016 3216-000 T 1 62 016 3221-000 T 1 62 016 3225-000 T 1 66 016 3125-000 T 1 66 016 3225-000



HIP.16/40, HIP-K.16/40, EMV-K.16/40 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 68 / IP 69 K Description Metr. PG Type Part Number

Description		Tioti.	. •	Type	i dit italiibei
Hood: Side entry					
	MPG . 57	M32	21 29	HIP HIP.16/40.STS.1.21.G HIP.16/40.STS.1.29.G HIP.16/40.STS.1.M32.G	1-1102649-5 1-1102651-5 0-1106454-2
		M32	29	HIP-K HIP-K.16/40.STS.1.29.G HIP-K.16/40.STS.1.M32.G	2-1102651-5 0-1106444-2
	115.5	M32	29 21	EMV-K EMV-K.16/40.STS.1.29.G EMV-K.16/40.STS.1.M32.G EMV-K.16/40.STS.1.21.G	4-1102723-5 0-1106446-4 4-1102722-5
lood: Top entry					,
	M/PG 57	M32	21 29	HIP HIP.16/40.STO.1.21.G HIP.16/40.STO.1.29.G HIP.16/40.STO.1.M32.G	1-1102653-5 1-1102655-5 0-1106454-1
In	115.5 129.5	M32	21 29	HIP-K HIP-K.16/40.STO.2.21.G HIP-K.16/40.STO.1.29.G HIP-K.16/40.STO.1.M32.G	0-1108534-1 2-1102655-5 0-1106444-1
	1	M32	29	EMV-K EMV-K.16/40.STO.1.29.G EMV-K.16/40.STO.1.M32.G	4-1102725-5 0-1106446-3
Surface mounted	I housing: Bottom entry	l			
	103 ^{64.5} 32 56			HIP HIP.16/40.AG	1-1102656-5
	Panel cut-out			HIP-K HIP-K.16/40.AG	2-1102656-5
	\$5 86 103			EMV-K EMV-K.16/40.AG	4-1102728-5
	M6x20			HIP HIP.16/40.AG.M6	1-1102618-5
	112.5 1-43 129.5 Panel cut-out			HIP-K HIP-K.16/40.AG.M6	2-1102618-5
	112.5 86 M6 36 45			EMV-K EMV-K.16/40.AG.M6	4-1102730-5



HIP.16/40, HIP-K.16/40, EMV-K.16/40 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar

IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Surface mounte	d housing: Side entry				
				HIP	
			21	HIP.16/40.SG.1.21.G	1-1102616-5
			2x21	HIP.16/40.SG.2.21.G	1-1102617-5
		2xM32		HIP.16/40.SG.2.M32.G	0-1106453-1
_	129.5				
				HIP-K	
商	M/PG 8		21	HIP-K.16/40.SG.1.21.G	5-1102616-5
100			2x21	HIP-K.16/40.SG.2.21.G	2-1102617-5
	105.5 05.5	2xM32		HIP-K.16/40.SG.2.M32.G	0-1106443-1
	123.5				
				EMV-K	
			21	EMV-K.16/40.SG.1.21.Z	4-1102726-5
			2x21	EMV-K.16/40.SG.2.21.Z	4-1102727-5
		2xM32		EMV-K.16/40.SG.2.M32.G	0-1106445-2
Protective cover	rs for housings				
				HIP	
	M6x30			HIP/EMV.16/40.SKB	3-1106203-5
GIA.	129.5			IIID I/	
•	129.5			HIP-K	4 1100007 5
				HIP-K.16/40.SKB	4-1106203-5



HK4/8 technical characteristics

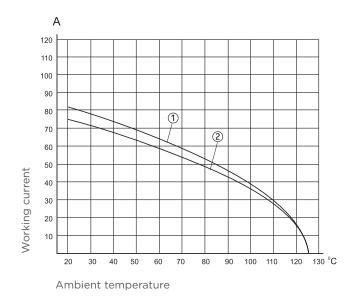
Specifications DIN EN 60 664-1 DIN EN 61 984 Number of contacts 4/8 + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature of materials for inserts and contacts including terminals. Control and test procedures according to DIN IEC 60512-3.

INSERTS

Rated current	
Power contact	80A max
Signal contact	16A max
(See current carrying capacity)	
Working voltage	
Power contact	400V
Signal contact	400V
Test voltage urms	
Power contact	6KV
Signal contact	6KV
Pollution degree	3
Insulation resistance	≥10 ¹⁰ Ω
Material	Polycarbonate
Temperature range	40°C +125°C
Flammability acc. to UL94	V0
Working voltage acc. to UL/CSA	600V/400V
Mechanical working life-mating cycles	≥500



1 Wire gauge: 16mm²2 Wire gauge: 10mm²

CONTACTS

Material Surface				На	ard sil	lver-p	lated
				П	aru y	ισια-μ	лацеи
Contact resistance							
Power contact						≤0	$.1$ m Ω
Signal contact							≤5mΩ
Terminal					. Crim	np ter	minal
- mm ²							
Power contact						1.5-16	6mm²
Signal contact					C	.5-2.	5mm²
- AWG							
Power contact							16-6
Signal contact							20-14
- Tightening/test torque							
- Power contact	mm²	1.5	2.5	4	6	10	16
	Nm	1.2	2	3	3	3	3
- Signal contact						0.	5 Nm

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	Stainless steel, steel-zinc plated
Temperature range	-40°C +125°C
Degree of protection acc. to D	IN40 050IP65



HK4/8 inserts

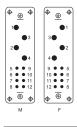
INSERTS FOR H24B HOOD/HOUSING

690V/400V MAX. 80A/16A

4/8+ 🖶

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Screw terminal	Size chart				
The Person of the Party of the	1040 1040 1040 1040 1040 1040 1040 1040	HK4/8-012-M	T 2 10 012 2101-000		
P. P	F 1000.	HK4/8-012-F		T 2 10 012 2201-000	
Cartantana					

Contact arrangement view from termination side





HWK3/3/6 technical characteristics

Specifications	DIN EN 60 664-1
	DIN EN 61 984
Number of contacts	3/3/6 + PE

CURRENT CARRYING CAPACITY

The current carrying is limited by maximum temperature
 of materials for inserts and contacts including terminals.
 Control and test procedures according to DIN IEC 60512-3.

INSERTS

Rated current
Power 1 contact
Power 2 contact40A max
Signal contact
(See current carrying capacity)
Working voltage
Power 1 contact
Conductor - ground400V
Conductor - conductor690V
Power 2 contact
Conductor - ground400V
Conductor - conductor690V
Signal contact
Conductor - ground250V
Conductor - conductor400V
Test voltage urms
Power 1 contact6KV
Power 2 contact6KV
Signal contact3KV
Pollution degree
Insulation resistance
Material Polycarbonate
Temperature range40°C +125°C
Flammability acc. to UL94V0

HOODS, HOUSINGS

Material	Die cast aluminium
Surface	Powder-coated (RAL 7037)
Locking element	. Stainless steel, steel-zinc plated
Temperature range	40°C +125°C
Degree of protection acc. to D	IN40 050IP65

CONTACTS

Material					Cc	pper	alloy
Surface				На	ard sil	ver-p	lated
				H	ard g	old-p	lated
Contact resistance							
Power contact						≤0	.1m $Ω$
Signal contact							≤5mΩ
Terminal					. Scre	w ter	minal
- mm ²							
Power 1 contact						16-3	5mm²
Power 2 contact						. 2.5-6	6mm²
Signal contact					C	.5-2.	5mm²
- AWG							
Power 1 contact							16-6
Power 2 contact							20-14
Signal contact							20-14
- Tightening/test torque							
- Power contact	mm ²	1.5	2.5	4	6	10	16
	Nm	1.2	2	3	3	3	3
- Signal contact						0	5 Nm



HWK3/3/6 inserts

INSERTS FOR H24B HOOD/HOUSING

3/3/6+(+

690V MAX. 100A 690V MAX. 40A 400V MAX. 16A

Dimensions (mm)		Туре	Part Number		
			Male insert	Female insert	
Screw terminal	Contact arrangement view from termination side				
S TO BE STORY	⊕ ⊕ ⊕ ⊕ ⊕ ⊕ 12 11 0 0 12 14 0 0 13 15 0 16 15 15 0 16 16 12 1 1 0 0 2	HK3/3/6-012-M	T 2 09 336 2101-000		
Season lay	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	HK3/3/6-012-F		T 2 09 336 2201-000	

CONTACTS

Material					C	nnor	allov
Surface							
				H	ard g	old-p	lated
Contact resistance							
Power contact						≤0	$.1$ m Ω
Signal contact						≤	≤5mΩ
Terminal					. Scre	w ter	minal
100A contact pin							
- mm ²							
Power 1 contact						16-35	mm^2
Power 2 contact						2.5-6	mm ²
Signal contact							
- AWG						.00	
Power 1 contact							6-2
Power 2 contact							
Signal contact							20-14
- Tightening/test torque							
- Power contact	mm²	1.5	2.5	4	6	10	16
	Nm	1.2	2	3	3	3	3
- Signal contact						0	.5Nm



H24B with 2 levers on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number		
Hood: Side entry							
	Low construction	M25 M32	PG16 PG21	H24B-TS-PG16 H24B-TS-PG21 H24B-TS-M25 H24B-TS-M32	T 1 21 024 0116-000 T 1 21 024 0121-000 T 1 21 024 0125-000 T 1 21 024 0132-000		
· 高州	High construction	M25 M32 M40	PG21 PG29	H24B-TSH-PG21 H24B-TSH-PG29 H24B-TSH-M25 H24B-TSH-M32 H24B-TSH-M40	T 1 23 024 0121-000 T 1 23 024 0129-000 T 1 23 024 0125-000 T 1 23 024 0132-000 T 1 23 024 0140-000		
Hood: Top entry							
	Low construction	M25 M32	PG16 PG21	H24B-TG-PG16 H24B-TG-PG21 H24B-TG-M25 H24B-TG-M32	T 1 22 024 0116-000 T 1 22 024 0121-000 T 1 22 024 0125-000 T 1 22 024 0132-000		
	High construction	M25 M32 M40	PG21 PG29	H24B-TGH-PG21 H24B-TGH-PG29 H24B-TGH-M25 H24B-TGH-M32 H24B-TGH-M40	T 1 24 024 0121-000 T 1 24 024 0129-000 T 1 24 024 0125-000 T 1 24 024 0132-000 T 1 24 024 0140-000		
Cable-to-cable hoc	pd			ı			
	Construction H Low 62.5 Hight 78.5	M25 M32 M25 M32 M40	PG21 PG21 PG29	H24B-TBFS-PG21 H24B-TBFS-M25 H24B-TBFS-M32 H24B-TBFHS-PG21 H24B-TBFHS-PG29 H24B-TBFHS-M25 H24B-TBFHS-M32 H24B-TBFHS-M40	T 1 71 024 1121-000 T 1 71 024 1125-000 T 1 71 024 1132-000 T 1 75 024 1121-000 T 1 75 024 1129-000 T 1 75 024 1125-000 T 1 75 024 1132-000 T 1 75 024 1132-000 T 1 75 024 1140-000		
Protection covers f	or hoods						
	99.50			H24B-KDTP	T 1 01 024 1400-000		
Housing protection cover							
10	99.00			H24B-KDBP	T 1 01 024 2100-000		



H24B with 2 levers on the hoods/housings

Dimensions (mm	1)	Metr.	PG	Туре	Part Number			
Bulkhead mounted								
	1000 B4.00 1100 B4.00 B4			H24B-AGS	T 1 41 024 1000-000			
Surface mounted	d: Side entry							
	2 Side entry 4 Side entry 2 Side entry 4 Side entry 4 Side entry 4 Side entry 4 Side entry 5 Side entry 6 Side entry 6 Side entry 6 Side entry 6 Side entry 7 Side entry 7 Side entry 7 Side entry 7 Side entry 6 Side entry 7 Side entry 8 Side entry 9 Sid	M25 M25 M25 M32 M25 M32	PG21 PG21 PG29 PG21 PG29	H24B-SGRS-PG21 H24B-SGRS-M25 H24B-SGRS-2PG21 H24B-SGRS-2M25 H24B-SGRHS-PG29 H24B-SGRHS-M25 H24B-SGRHS-M32 H24B-SGRHS-M32 H24B-SGRHS-2PG21 H24B-SGRHS-2PG29 H24B-SGRHS-2M25 H24B-SGRHS-2M32	T 1 44 024 1121-000 T 1 44 024 1125-000 T 1 44 024 1221-000 T 1 44 024 1225-000 T 1 47 024 1121-000 T 1 47 024 1129-000 T 1 47 024 1125-000 T 1 47 024 1125-000 T 1 47 024 1221-000 T 1 47 024 1221-000 T 1 47 024 1225-000 T 1 47 024 1225-000 T 1 47 024 1232-000			
Side entry housing	ng with two levers							
	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TSBS-PG16 H24B-TSBS-PG21 H24B-TSBS-M20 H24B-TSBS-M25 H24B-TSBHS-PG21 H24B-TSBHS-PG29 H24B-TSBHS-M25 H24B-TSBHS-M32	T 1 25 024 3116-000 T 1 25 024 3121-000 T 1 25 024 3120-000 T 1 25 024 3125-000 T 1 27 024 3121-000 T 1 27 024 3129-000 T 1 27 024 3125-000 T 1 27 024 3132-000			
Top entry housin	g with two levers							
	Construction H Low 60 Hight 76	M20 M25 M25 M32	PG16 PG21 PG21 PG29	H24B-TGBS-PG16 H24B-TGBS-PG21 H24B-TGBS-M20 H24B-TGBS-M25 H24B-TGBHS-PG21 H24B-TGBHS-PG29 H24B-TGBHS-M25 H24B-TGBHS-M32	T 1 26 024 3116-000 T 1 26 024 3121-000 T 1 26 024 3120-000 T 1 26 024 3125-000 T 1 28 024 3121-000 T 1 28 024 3121-000 T 1 28 024 3125-000 T 1 28 024 3132-000			
Bulkhead mount	ed with 4 bolts							
	1 Side entry 2 Side entry 2 Side entry 2 Side entry 1 Side entry 2 Side entry 1 Side entry 2 Side entry 1 Side entry 1 Side entry 1 Side entry 1 Side entry 2 Side entry 1 Side entry 2 Side	M25 M25 M25 M32 M25 M32	PG21 PG21 PG21 PG29 PG21 PG29	H24B-AD-BO H24B-SDR-BO-PG21 H24B-SDR-BO-2PG21 H24B-SDR-BO-2M25 H24B-SDR-BO-PG21 H24B-SDRH-BO-PG21 H24B-SDRH-BO-PG29 H24B-SDRH-BO-M25 H24B-SDRH-BO-M32 H24B-SDRH-BO-2PG21 H24B-SDRH-BO-2PG21 H24B-SDRH-BO-2PG29 H24B-SDRH-BO-2M32	T 1 43 024 0000-000 T 1 46 024 0121-000 T 1 46 024 0125-000 T 1 46 024 0221-000 T 1 49 024 0125-000 T 1 49 024 0125-000 T 1 49 024 0125-000 T 1 49 024 0132-000 T 1 49 024 0221-000 T 1 49 024 0225-000 T 1 49 024 0232-000			



H24B with 1 lever on the hoods/housings

Dimensions (mm)		Metr.	PG	Туре	Part Number		
Hood: Side entry							
	Low construction	M25 M32	PG21 PG29	H24B-TS-RO-PG21 H24B-TS-RO-PG29 H24B-TS-RO-M25 H24B-TS-RO-M32	T 1 31 024 0121-000 T 1 31 024 0129-000 T 1 31 024 0125-000 T 1 31 024 0132-000		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	High construction	M25 M32 M40	PG21 PG29	H24B-TSH-RO-PG21 H24B-TSH-RO-PG29 H24B-TSH-RO-M25 H24B-TSH-RO-M32 H24B-TSH-RO-M40	T 1 33 024 0121-000 T 1 33 024 0129-000 T 1 33 024 0125-000 T 1 33 024 0132-000 T 1 33 024 0140-000		
Hood: Top entry							
	Low construction	M25 M32	PG21 PG29	H24B-TG-RO-PG21 H24B-TG-RO-PG29 H24B-TG-RO-M25 H24B-TG-RO-M32	T 1 32 024 0121-000 T 1 32 024 0129-000 T 1 32 024 0125-000 T 1 32 024 0132-000		
2	High construction	M25 M32 M40	PG21 PG29	H24B-TGH-RO-PG21 H24B-TGH-RO-PG29 H24B-TGH-RO-M25 H24B-TGH-RO-M32 H24B-TGH-RO-M40	T 1 34 024 0121-000 T 1 34 024 0129-000 T 1 34 024 0125-000 T 1 34 024 0132-000 T 1 34 024 0140-000		
Cable-to-cable hoc	od						
	Construction H	M25 M32	PG21 PG29	H24B-TBF-LB-PG21 H24B-TBF-LB-PG29 H24B-TBF-LB-M25 H24B-TBF-LB-M32	T 1 73 024 2121-000 T 1 73 024 2129-000 T 1 73 024 2125-000 T 1 73 024 2132-000		
	Low 62.5 Hight 78.5	M25 M32 M40	PG21 PG29	H24B-TBFH-LB-PG21 H24B-TBFH-LB-PG29 H24B-TBFH-LB-M25 H24B-TBFH-LB-M32 H24B-TBFH-LB-M40	T 1 77 024 3121-000 T 1 77 024 3129-000 T 1 77 024 3125-000 T 1 77 024 3132-000 T 1 77 024 3140-000		
Protection covers for hoods							
				H24B-KDTP-LB	T 1 01 024 1500-000		



H24B with 1 lever on the hoods/housings

Dimensions (mn	n)		Metr.	PG	Туре	Part Number
Bulkhead mount	red					
	100 100				H24B-AG-LB	T 1 50 024 3000-000
	With protection cover				H24B-AD-LB	T 1 51 024 3000-000
Surface mounted	d: Side entry					
	65.50 18.00 57.00 18.00 57.00	Side entry 2 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H24B-SGR-LB-PG16 H24B-SGR-LB-PG21 H24B-SGR-LB-M20 H24B-SGR-LB-M25 H24B-SGR-LB-2PG16 H24B-SGR-LB-2PG21 H24B-SGR-LB-2M20 H24B-SGR-LB-2M25 H24B-SGRH-LB-PG21 H24B-SGRH-LB-PG29 H24B-SGRH-LB-M25 H24B-SGRH-LB-M32 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG29 H24B-SGRH-LB-2M25 H24B-SGRH-LB-2M32	T 1 61 024 3116-000 T 1 61 024 3121-000 T 1 61 024 3120-000 T 1 61 024 3125-000 T 1 61 024 3216-000 T 1 61 024 3221-000 T 1 61 024 3221-000 T 1 61 024 3225-000 T 1 65 024 3121-000 T 1 65 024 3125-000 T 1 65 024 3125-000 T 1 65 024 3125-000 T 1 65 024 3221-000 T 1 65 024 3221-000 T 1 65 024 3221-000 T 1 65 024 3225-000 T 1 65 024 3232-000
		1 Side entry 2 Side entry 1 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H24B-SDR-LB-PG16 H24B-SDR-LB-PG21 H24B-SDR-LB-M20 H24B-SDR-LB-M25 H24B-SDR-LB-2PG16 H24B-SDR-LB-2M20 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDRH-LB-PG21 H24B-SDRH-LB-M25 H24B-SDRH-LB-M32 H24B-SDRH-LB-M32 H24B-SDRH-LB-M32 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG29 H24B-SDRH-LB-2M25 H24B-SDRH-LB-2M32	T 1 62 024 3116-000 T 1 62 024 3121-000 T 1 62 024 3120-000 T 1 62 024 3125-000 T 1 62 024 3216-000 T 1 62 024 3221-000 T 1 62 024 3225-000 T 1 66 024 3121-000 T 1 66 024 3125-000 T 1 66 024 3125-000 T 1 66 024 3125-000 T 1 66 024 3132-000 T 1 66 024 3221-000 T 1 66 024 3225-000 T 1 66 024 3232-000



HIP.24/64, HIP-K.24/64, EMV-K.24/64 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar

IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Side entry	, Standard construction				
	M/PG	M40	21 29	HIP HIP.24/64.STS.1.21.G HIP.24/64.STS.1.29 G HIP.24/64.STS.1.M40.G	1-1102658-5 1-1102660-5 0-1106473-2
		M40	29	HIP-K HIP-K.24/64.STS.1.29.G HIP-K.24/64.STS.1.M40.G	2-1102660-5 0-1106473-4
	142 156	M25 M32 M40	29	EMV-K EMV-K.24/64.STS.1.29.G EMV-K.24/64.STS.1.M25.G EMV-K.24/64.STS.1.M32.G EMV-K.24/64.STS.1.M40.G	4-1102755-5 0-1102983-1 0-1106461-8 0-1106461-3
	M/PG	M40	29 36	HIP HIP-KF.24/64.STS.1.29.G HIP-KF.24/64.STS.1.36.G HIP-KF.24/64.STS.1.M40.G	1-1102622-5 1-1102623-5 0-1106474-1
	Mex30	M40	29 36	HIP-K HIP-KF/K.24/64.STS.1.29.G HIP-KF/K. 24/64.STS.1.36G HIP-KF/K.24/64.STS.1.M40.G	2-1102622-5 2-1102623-5 0-1106474-2
	156 53	M40	29 36	EMV-K EMV-KF/K.24/64.STS.1.29.G EMV-KF/K.24/64.STS.1.36.G EMV-KF/K.24/64.STS.1.M40.G	4-1102732-5 4-1102733-5 0-1106462-2
Hood: Top entry,	Standard construction				
		M40			
	M/PG 57	2xM32 M40	21 29	HIP HIP.24/64.STO.1.21.G HIP.24/64.STO.1.29.G HIP.24/64.STO.1.M40.G	1-1102662-5 1-1102664-5 0-1106473-1
	142	M40 2xM40	29	HIP-K HIP-K.24/64.STO.1.29.G HIP-K.24/64.STO.2.M32.G HIP-K.24/64.STO.1.M40.G	2-1102664-5 0-1102792-1 0-1106473-3
	156 53	2xM40	29	EMV-K EMV-K.24/64.STO.1.29.G EMV-K.24/64.STO.1.M40.G	4-1102759-5 0-1106461-4
		2xM40			



HIP.10/24, HIP-K.10/24, EMV-K.10/24 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Description		Metr.	PG	Туре	Part Number
Surface mounted	I housing: Bottom entry				
	M6x20 92 109 Panel cut-out M6 43 36 65 92			HIP HIP.10/24.AG.M6 HIP-K HIP-K.10/24.AG.M6 EMV-K EMV-K.10/24.AG.M6	1-1102612-5 2-1102612-5 4-1102720-5
Surface mounted	I housing: Side entry				
	MPG 109 88 88 103 103 103	2xM32 2xM32	21 2x21 21 2x21 21 2x21	HIP HIP.10/24.SG.1.21.G HIP.10/24.SG.2.21.G HIP.10/24.SG.2.M32.G HIP-K HIP-K.10/24.SG.1.21.G HIP-K.10/24.SG.2.21.G EMV-K EMV-K.10/24.SG.1.21.G EMV-K.10/24.SG.2.21.G EMV-K.10/24.SG.2.21.G	1-1102610-5 1-1102611-5 0-1106435-1 5-1102610-5 2-1102611-5 5-1102716-5 4-1102717-5 0-1106426-2
Protective covers	s for hoods and housing	'			
	M6x30 109 53			HIP HIP/EMV.10/24.SKB HIP-K/EMV-K HIP-K/EMV-K.10/24.SKB	3-1106202-5 4-1106202-5



HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood

Description		Metr.	PG	Туре	Part Number
Hood					
	128 8 184 8	1xM50 1xM50 2xM40 2xM40		HF-HIP-K.8.Sto.1.M50G HF.8.EMV-K.8.Sto.1.M50G HF.HIP-K.8.Sto.2.M40G HF.EMV-K.8.Sto.2.M40G	0-1102839-4 0-1102839-3 0-1102839-2 0-1102839-1
Housing bottom					
		Hei	ght		
	184 184 184 184 184 184 184 184 184 184	81 mm 81 mm	20 mm 20 mm	HF-HIP-K.8.AG.N HF-EMV-K.8.AG.N HF-HIP-K.8.AG HF-EMV-K.8.AG	0-1102837-2 0-1102837-1 0-1102836-2 0-1102836-1
Hood					
		2xM40 2xM40 2xM50 2xM50		HF-HIP-K.12.Sto.2.M40G HF-EMV-K.12.Sto.2.M40G HF-HIP-K.12.Sto.2.M50G HF-EMV-K.12.Sto.2.M50G	0-1102840-2 0-1102840-1 0-1102840-4 0-1102840-3
Housing bottom					
	184 184 189 189 189 189	81 mm 81 mm	20 mm 20 mm	HF-HIP-K.12.AG.N HF-EMV-K.12.AG.N HF-HIP-K.12.AG HF-EMVK-K.12.AG	0-1102838-2 0-1102838-1 0-1102192-2 0-1102192-1



Connectors for Power Supply and Power Circuits

The demand for shortest possible periods of machine shutdowns and assembly times requires the use of connectors at the interfaces of the connector wires, as well as energy feeding and power circuites.

To satisfy the demand of the various applications the series Power Connector was designed.

On the basis of the standard series HSB.6/35 (power supply up to 35 A - 6-poles) the development and the elaboration of this series is being continued rigorously as a result, almost any application up to current of 350 A can be realized by using a series of different power contacts.

Due to the modular structure the differnet varieties of customer requirements in this sector can be met.

We also offer solutions for your application specific requirements.

POWER CONTACT SERIE HPC GRADED BY DIMENSIONAL LEVELS UP TO 350 A FOR VARIOUS INDUSTRIAL APPLICATIONS

 $65\ \%$ higher current consumption than other available contact systems of the same size.

F. e. Tulip contact 250 A - Coil spring contact 350 A.



Coil Spring Power Contact



- 1 Insulating material plastic
- 2 Crimp ferrule
- 3 Female contact
- 4 Coil spring
- 5 Male contact

CRIMP FERRULE

- Optimum material adaptation according to customer's application
- Adaptation to special customer wire size and crimping tools
- Same crimp ferrule for male, female and grounding contact
- Robust crimp ferrule for tough industrial applications

MALE/FEMALE CONTACT

- Wear-resistant basic material
- Worn parts can be individually exchanged
- Surface coating according to customer application
- 30% reducted mating and pulling forces
- 50% increase of making cycles
- Variable wire termination



Connector overview

Series	HF-13
Power circuit	350A (3KV)
Signal circuit	16A (400V)
Pollution degree	3(C)
Type of terminals	Crimp
Pole Modul	1
Page	16



HF-13 module

350A/3KV

Description	Dimensions (mm)	Туре	Part Number		
			Male insert	Female insert	
	5 65 775	HF.13.Sti.	0-1110950-2		
	5/2 A40	HF.13.Sti.E	0-1110950-4		
	15 8 40 45 82.5	HF.13.Bu.		0-1110951-2	
	\$ 6.00 E.00 E.00 E.00 E.00 E.00 E.00 E.00	HF.13.Bu.E		0-1110951-4	
			Тор	Bottom	
3 x for power 1 x for earth 1 x for signal (HA.10) Assembly in HF.12 Housings	130 130 113 104 104 105 105 105 105 105 105 105 105 105 105		0-1110955-3	0-1110955-1	
3 x for power 1 x for earth 1x for signal (HE.6) Assembly in HF.12 Housings	130 113 113 121 121 121 121 121 121 121 121		0-1110955-4	0-1110955-2	
2 x for power 1 x signal Assembly in HF.8 Housings	104 104 21 112		0-1110960-2	0-1110960-1	



HF.8 housings

EMV-K: corrosion-resistant, black; HIP-K: black

Screw lock on hood IP 68 / IP 69 K

Description		Metr.	Height	Туре	Part Number
Hood					
	126	1xM50		HF-HIP-K.8.Sto.1.M50G	0-1102839-4
	8	1xM50		HF.8.EMV-K.8.Sto.1.M50G	0-1102839-3
	B 184 B	2xM40		HF.HIP-K.8.Sto.2.M40G	0-1102839-2
100	M50	2xM40		HF.EMV-K.8.Sto.2.M40G	0-1102839-1
100		2xM40+1xM16		HF.HIP.K8.Sto.2.M40G.1M16G	0-1102839-6
		2xM40+1xM16		HF.EMV.K8.Sto.2.M40G.1M16G	0-1102839-5
Housing bottom			T		1
	8 184	3	20	HF-HIP-K.8.AG.N	0-1102837-2
	0 184 0		20	HF-EMV-K.8.AG.N	0-1102837-1
5	190		81	HF-HIP-K.8.AG	0-1102836-2
and the same of th			81	HF-EMV-K.8.AG	0-1102836-1

HF.12 housings

Screw lock on hood IP 68 / IP 69 K

Description	Metr.	Height	Туре	Part Number	
Hood					
		2xM40 2xM40 2xM50 2xM50		HF-HIP-K.12.Sto.2.M40.1M20G HF-EMV-K.12.Sto.2.M40.1M20G HF-HIP-K.12.Sto.2.M50.1M20G HF-EMV-K.12.Sto.2.M50.1M20G	0-1102840-2 0-1102840-1 0-1102840-4 0-1102840-3
Housing bottom					
			20 20 81 81	HF-HIP-K.12.AG.N HF-EMV-K.12.AG.N HF-HIP-K.12.AG HF-EMVK-K.12.AG	0-1102838-2 0-1102838-1 0-1102192-2 0-1102192-1



EMV-K 10/24 housings

Screw lock on hood

EMV-K: Protection against electro magnetic interference, pressure-tight, corrosion-resistant

Description Metr. PG Туре **Part Number** Hood: Top entry 21 EMV-K.10/24.Sto.1.21G 4-1102715-5 M25 EMV-K.10/24.Sto.1.M25G 0-1106427-4 Surface mounted housing: Bottom entry Panel cut-out EMV-K.10/24.AG 4-1102718-5





IP 68 / IP 69 K

Crimping sleeves

CRIMPING SLEEVES FOR CONTACT SERIES HF-13

MAX. 350A

Description	Dimensions (mm)	Туре	Part Number
Crimp barrel for pin-/socket side - shrink tube - crimp barrel - adapter		CH.50mm ² -13/16mm CH.70mm ² -13/16mm CH.95rmm ² -13/16mm CH.105mm ² -13/16mm CH.120mm ² -13/16mm CH.150mm ² -13/16mm	0-1110953-9

SUITABLE TOOL

Description		Туре	Part Number
Crimping tool without crimping jaws		HSS-CSZ.2.5-70mm ²	1-1105653-8
	m	CB-HSS-CSZ.6mm ² CB-HSS-CSZ.10mm ²	2-1105653-8 3-1105653-8
	m and a second	CB-HSS-CSZ.16mm ²	4-1105653-8
Crimping jaws for HSL, HSS		CB-HSS-CSZ.25mm ²	5-1105653-8
		CB-HSS-CSZ.35mm ²	6-1105653-8
	H	CB-HSS-CSZ.50mm ²	7-1105653-8
		CB-HSS-CSZ.70mm ²	8-1105653-8
Hydraulic Crimping tool	The second second	HF-CHZ	0-1110956-1
		SET-50-150mm ²	0-1110956-7
		150mm ² -KZ22	0-1110956-6
		120mm ² -KZ20	0-1110956-5
Dies	96 3 96	95mm ² -KZ18	0-1110956-4
		70mm ² -KZ16	0-1110956-3
		50mm ² -KZ14	0-1110956-2



Notes	



IP68, IP65 Hoods and Housings overview



Specifications
 DIN VDE 0110 Concerning clearance and clearage distances
 DIN VDE 0627 Connectors and plug devices

2. Standards DIN EN 60 664-1 DIN EN 61 984

3. Approvals





HPR (IP68) series hoods/housings

H3APR (IP68) SERIES

Opposite angle	locking	Metr.	PG	Туре	Part Number
Top entry					
	45.7 80.7	M20	PG16	H3APR-MTG-PG16 H3APR-MTG-M20	T 1 92 003 0116-000 T 1 92 003 0120-000
Bulkhead mount	ed: Bottom entry				
	96.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98			H3APR-MAG	T 1 93 003 0000-000
Bulkhead mount	ed: Side entry				
	45.8			H3APR-MAGS	T 1 94 603 0000-000 (Black) T 1 94 603 2000-000 (Grey) T 1 94 603 1000-000 (Silver)



HB hoods/housings with central locking lever

HB (IP67) SERIES

Central locking		Size	Metr.	PG	Туре	Part Number
	102 D 202 D	H24B	M25 M32 M40	PG21 PG29	Top entry H24BK-TGHC-PG21 H24BK-TGHC-PG29 H24BK-TGHC-M25 H24BK-TGHC-M32 H24BK-TGHC-M40	T 1 82 224 2121-000 T 1 82 224 2129-000 T 1 82 224 2125-000 T 1 82 224 2132-000 T 1 82 224 2140-000
			M25 M32	PG21	Side entry H24BK-TSHC-PG21 H24BK-TSHC-M25 H24BK-TSHC-M32	T 1 81 224 2121-000 T 1 81 224 2125-000 T 1 81 224 2132-000
Surface mounted	side entry					
	332.0	H24B	M25	PG21	1 side entry H24BK-SGR-PG21 H24BK-SGR-M25 2 side entry	T 1 85 224 2121-000 T 1 85 224 2125-000
			M25	PG21	H24BK-SGR-2PG21 H24BK-SGR-2M25	T 1 85 224 2221-000 T 1 85 224 2225-000



Special hoods

SPECIAL HOODS (IP65) SERIES

Double cable entry	Size	Metr.	PG	Туре	Part Number
Hood: Top entry					
6	H10B		2xPG16	H10B-TGH-2PG16	T 1 24 010 2116-000
		2xM20		H10B-TGH-2M20	T 1 24 010 2120-000
	H16B		2xPG21	H16B-TGH-2PG21	T 1 24 016 2121-000
		2xM25		H16B-TGH-2M25	T 1 24 016 2125-000
	H24B		2xPG21	H24B-TGH-2PG21	T 1 24 024 2121-000
The second second	11245	2xM25		H24B-TGH-2M25	T 1 24 024 2125-000
Hood: Side entry					
100	11100		2xPG16	H10B-TFH-2PG16	T 1 23 010 2116-000
	H10B	2xM20		H10B-TFH-2M20	T 1 23 010 2120-000
			2xPG21	H16B-TFH-2PG21	T 1 23 016 2121-000
The state of the s	H16B	2xM25		H16B-TFH-2M25	T 1 23 016 2125-000
			2xPG21	H24B-TFH-2PG21	T 1 23 024 2121-000
The state of the s	H24B	2xM25		H24B-TFH-2M25	T 1 23 024 2125-000



HA series hoods/housings

H3A INCLUDE METAL AND PLASTIC SHELLS H3A6 LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL

H3A metal hoods, housings	Metr.	PG	Туре	H3A thermoplastic hoods, housings	Metr.	PG	Туре	
Top entry				Top entry				
	M20	PG11	H3A-MTG-PG11 H3A-MTG-M20		M20	PG11	H3A-TG-PG11 H3A-TG-M20	
Side entry				Side entry				
	M20	PG11	H3A-MTS-PG11 H3A-MTS-M20		M20	PG11	H3A-TS-PG11 H3A-TS-M20	
Bulkhead mounting: Bo	ottom en	itry		Bulkhead mounting: E	Bottom e	ntry		
			H3A-MAG	100			H3A-AG	
Bulkhead mounting: Si	de entry			Bulkhead mounting: 9	Side entr	У		
			H3A-MAGS	10.			H3A-AGS	
Surface mounting: Side	e entry			Surface mounting: Side entry				
	M16 M20	PG11	H3A-MAGSV-PG11 H3A-MAGSV-M16 H3A-MAGSV-M20		M16 M20	PG11	H3A-AGSV-PG11 H3A-AGSV-M16 H3A-AGSV-M20	
Cable-to-cable hood			I	Cable-to-cable hood				
	M20	PG11	H3A-MTGVB-PG11 H3A-MTGVB-M20	6	M20	PG11	H3A-TGVB-PG11 H3A-TGVB-M20	
Protection covers for h	oods (th	ermopla	stic)	Protection covers for	hoods			
6	Note: F mounte male in and ho	ed sert	H3A-KDTP		Note: F mounte male in and ho	ed sert	H3A-KDTP	
Metal protection cover	s for hoc	ods		Protection covers for	hoods			
	Note: F mounte female and ho	ed insert	H3A-KDB	White Grey	Note: F mounte female and ho	ed insert	H3A-KDBP (White) H3A-KDBPG (Grey)	



HA series hoods/housings

H10A INCLUDE METAL AND STAINLESS STEEL LEVER H16A INCLUDE METAL AND STAINLESS STEEL LEVER

H10A metal hoods, housings	Metr.	PG	Туре	H16A metal hoods, housings	Metr.	PG	Туре
Hood: Side entry			,	Hood: Side entry			
Low construction High construction	M20 M25	PG16 PG21	H10A-TS-PG16 H10A-TS-PG21 H10A-TS-M20 H10A-TS-M25	Low construction High construction	M20 M25 M25	PG16 PG21	H16A-TS-PG16 H16A-TS-PG21 H16A-TS-M20 H16A-TS-M25 H16A-TSH-PG21 H16A-TSH-M25
Hood: Top entry							
Low construction High construction	M20 M25	PG16 PG21	H10A-TG-PG16 H10A-TG-PG21 H10A-TG-M20 H10A-TG-M25	Low construction High construction	M20 M25 M25	PG16 PG21 PG21	H16A-TG-PG16 H16A-TG-PG21 H16A-TG-M20 H16A-TG-M25 H16A-TGH-PG21 H16A-TGH-M25
Protection covers for h	nood		1	Protection covers for	hood	'	
63.0			H10A-KDT	79.0 S			H16A-KDT
Bulkhead mounted				Bulkhead mounted			
			H10A-AGS				H16A-AGS
			H10A-ADS				H16A-ADS
Surface mounted: Side	entry			Surface mounted: Side entry			
1 Side entry 2 Side entry	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H10A-SGRS-PG16 H10A-SGRS-PG21 H10A-SGRS-M20 H10A-SGRS-M25 H10A-SGRS-2PG16 H10A-SGRS-2PG21 H10A-SGRS-2M20 H10A-SGRS-2M25	1 Side entry 2 Side entry	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H16A-SGRS-PG16 H16A-SGRS-PG21 H16A-SGRS-M20 H16A-SGRS-M25 H16A-SGRS-2PG16 H16A-SGRS-2PG21 H16A-SGRS-2M20 H16A-SGRS-2M25
1 Side entry 2 Side entry	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H10A-SDRMS-PG16 H10A-SDRMS-PG21 H10A-SDRMS-M20 H10A-SDRMS-M25 H10A-SDRMS-2PG16 H10A-SDRMS-2PG21 H10A-SDRMS-2M20 H10A-SDRMS-2M25	1. Side entry 2. Side entry	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H16A-SDRS-PG16 H16A-SDRS-PG21 H16A-SDRS-M20 H16A-SDRS-M25 H16A-SDRS-2PG16 H16A-SDRS-2PG21 H16A-SDRS-2M20 H16A-SDRS-2M25
Cable-to-cable hood	1	1	1	Cable-to-cable hood	1	1	1
Low construction High construction	M20 M25 M25	PG16 PG21	H10A-TBFS-PG16 H10A-TBFS-M20 H10A-TBFS-M25 H10A-TBFHS-PG21 H10A-TBFHS-M25	Law construction High construction	M20 M25 M25	PG16 PG21	H16A-TBFS-PG16 H16A-TBFS-M20 H16A-TBFS-M25 H16A-TBFHS-PG21 H16A-TBFHS-M25



HA series hoods/housings

H32A metal hoods, housings	Metr.	PG	Туре	H8A thermoplastic hoods, housings	Metr.	PG	Туре			
Hood: Side entry	Hood: Side entry					Hood: Side entry				
国 国	M25 M32 M40	PG21 PG29 PG36	H32A-TS-PG21 H32A-TS-PG29 H32A-TS-PG36 H32A-TS-M25 H32A-TS-M32 H32A-TS-M40		M20	PG16	H8A-TS-PG16 H8A-TS-M20			
Hood: Top entry				Hood: Top entry						
	M25 M32 M40	PG21 PG29 PG36	H32A-TG-PG21 H32A-TG-PG29 H32A-TG-PG36 H32A-TG-M25 H32A-TG-M32 H32A-TG-M40		M20	PG16	H8A-TG-PG16 H8A-TG-M20			
Bulkhead mounted				Bulkhead mounted						
			H32A-AG				H8A-AG			
Surface mounted: Si	de entry									
120	1 Side entry M25 M32	PG21 PG29	H32A-SGR-PG21 H32A-SGR-PG29 H32A-SGR-M25 H32A-SGR-M32 H32A-SGR-2PG21							
	M25 M32	PG29	H32A-SGR-2PG29 H32A-SGR-2M25 H32A-SGR-2M32							



H6B series hoods/housings

H6B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL H6B COVERS INCLUDE PLASTIC AND METAL COVERS

H6B metal hoods	Metr.	PG	Туре	H6B metal housings	Metr.	PG	Туре
Hood: Side entry				Bulkhead mounted			
	M20 M25	PG16 PG21	H6B-TS-PG16 H6B-TS-PG21 H6B-TS-M20 H6B-TS-M25				H6B-AGS
	M20 M25 M32	PG21 PG29	H6B-TSH-PG21 H6B-TSH-PG29 H6B-TSH-M20 H6B-TSH-M25 H6B-TSH-M32				H6B-ADS
Hood: Top entry				Surface mounted: Sid	e entry		
		PG16 PG21	H6B-TG-PG16 H6B-TG-PG21	1 Side entry 2 Side entry Low construction	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H6B-SGRS-PG16 H6B-SGRS-PG21 H6B-SGRS-M20 H6B-SGRS-M25 H6B-SGRS-2PG16 H6B-SGRS-2PG21 H6B-SGRS-2M20 H6B-SGRS-2M25
	M20 M25		H6B-TG-M20 H6B-TG-M25	1 Side entry 2 Side entry High construction	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H6B-SGRHS-PG21 H6B-SGRHS-PG29 H6B-SGRHS-M25 H6B-SGRHS-M32 H6B-SGRHS-2PG21 H6B-SGRHS-2PG29 H6B-SGRHS-2M25 H6B-SGRHS-2M32
	M20 M25 M32	PG21 PG29	H6B-TGH-PG21 H6B-TGH-PG29 H6B-TGH-M20 H6B-TGH-M25 H6B-TGH-M32	1 Side entry 2 Side entry 1 Side entry 2 Side entry Low construction High construction	M20 M25 M20 M25 M25 M32 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H6B-SDRS-PG16 H6B-SDRS-PG21 H6B-SDRS-M20 H6B-SDRS-M25 H6B-SDRS-2PG16 H6B-SDRS-2M20 H6B-SDRS-2M25 H6B-SDRS-2M25 H6B-SDRHS-PG21 H6B-SDRHS-PG29 H6B-SDRHS-M25 H6B-SDRHS-M32 H6B-SDRHS-M32 H6B-SDRHS-2PG21 H6B-SDRHS-2PG21 H6B-SDRHS-2PG21 H6B-SDRHS-2PG29 H6B-SDRHS-2M32
Cable-to-cable hood							
Low construction High construction	M20 M25 M20 M25 M32	PG16 PG21 PG29	H6B-TBFS-PG16 H6B-TBFS-M20 H6B-TBFS-M25 H6B-TBFHS-PG21 H6B-TBFHS-PG29 H6B-TBFHS-M20 H6B-TBFHS-M25 H6B-TBFHS-M32				
Protection covers for hoods							
			H6B-KDTP				



H10B with 2 levers on the hoods/housings

H10B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL H10B COVERS INCLUDE PLASTIC AND METAL COVERS

H10B metal hoods	Metr.	PG	Туре	H10B metal housings	Metr.	PG	Туре	
Hood: Side entry		Bulkhead mounted						
	M20	PG16 PG21	H10B-TS-PG16 H10B-TS-PG21 H10B-TS-M20				H10B-AGS	
1 4	M25		H10B-TS-M25	Surface mounted: Side entry				
	M20 M25 M32	PG21 PG29	H10B-TSH-PG21 H10B-TSH-PG29 H10B-TSH-M20 H10B-TSH-M25 H10B-TSH-M32	1 Side entry 2 Side entry Lew construction	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H10B-SGRS-PG16 H10B-SGRS-PG21 H10B-SGRS-M20 H10B-SGRS-M25 H10B-SGRS-2PG16 H10B-SGRS-2PG21 H10B-SGRS-2M20 H10B-SGRS-2M25	
				1 Side entry		PG21 PG29	H10B-SGRHS-PG21 H10B-SGRHS-PG29	
Hood: Top entry			I	oonst	M25 M32		H10B-SGRHS-M25 H10B-SGRHS-M32	
		PG16 PG21	H10B-TG-PG16 H10B-TG-PG21 H10B-TG-M20 H10B-TG-M25	2 Side entry	M25 M32	PG21 PG29	H10B-SGRHS-2PG21 H10B-SGRHS-2PG29 H10B-SGRHS-2M25 H10B-SGRHS-2M32	
	M20 M25			Side entry housing with two levers				
	M20 M25 M32		H10B-TGH-PG21 H10B-TGH-PG29 H10B-TGH-M20 H10B-TGH-M25	Low construction	M20 M25	PG16 PG21	H10B-TSBS-PG16 H10B-TSBS-PG21 H10B-TSBS-M20 H10B-TSBS-M25	
		PG21 PG29		High construction	M25 M32	PG21 PG29	H10B-TSBHS-PG21 H10B-TSBHS-PG29 H10B-TSBHS-M25 H10B-TSBHS-M32	
1 4 4			H10B-TGH-M32	Top entry housing with two levers				
Cable-to-cable hood		PG16	H10B-TBFS-PG16	Law construction	M20 M25	PG16 PG21	H10B-TGBS-PG16 H10B-TGBS-PG21 H10B-TGBS-M20 H10B-TGBS-M25	
High	M20 M25	PG16 PG21 PG29	H10B-TBFS-M20 H10B-TBFS-M25 H10B-TBFHS-PG21 H10B-TBFHS-PG29	Hgh construction	M25 M32	PG21 PG29	H10B-TGBHS-PG21 H10B-TGBHS-PG29 H10B-TGBHS-M25 H10B-TGBHS-M32	
High construction	M25	F 029	H10B-TBFHS-M25	Bulkhead mounted with 4 bolts				
ž	M32		H10B-TBFHS-M32				H10B-AD-BO	
Protection covers for h	noods		H10B-KDTP	1 Side entry 2 Side entry Low construction	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H10B-SDR-BO-PG16 H10B-SDR-BO-PG21 H10B-SDR-BO-M20 H10B-SDR-BO-M25 H10B-SDR-BO-2PG16 H10B-SDR-BO-2PG21 H10B-SDR-BO-2M20 H10B-SDR-BO-2M25	
Housing protection co		1 Sid		PG21	H10B-SDRH-BO-PG21			
A STATE OF THE STA			H10B-KDBP	High construction	M25 M32 M25 M32	PG29 PG21 PG29	H10B-SDRH-BO-PG29 H10B-SDRH-BO-M25 H10B-SDRH-BO-M32 H10B-SDRH-BO-2PG21 H10B-SDRH-BO-2PG29 H10B-SDRH-BO-2M25 H10B-SDRH-BO-2M32	



H10B with 1 lever on the hoods/housings

H10B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL H10B COVERS INCLUDE PLASTIC AND METAL COVERS

H10B metal hoods	Metr.	PG	Туре	H10B metal housings	Metr.	PG	Туре	
Hood: Side entry				Bulkhead mounted				
	M20 M25	PG16 PG21	H10B-TS-RO-PG16 H10B-TS-RO-PG21 H10B-TS-RO-M20 H10B-TS-RO-M25				H10B-AG-LB	
	M20 M25 M32	PG21 PG29	H10B-TSH-RO-PG21 H10B-TSH-RO-PG29 H10B-TSH-RO-M20 H10B-TSH-RO-M25 H10B-TSH-RO-M32				H10B-AD-LB	
Hood: Top entry				Surface mounted: Sic	e entry			
	M20 M25	PG16 PG21	H10B-TG-RO-PG16 H10B-TG-RO-PG21 H10B-TG-RO-M20 H10B-TG-RO-M25	18 de entry 28 de entry 15 de entry 28 de entry 28 de entry 18 de entry 28 de entry 18 de entry 28 de	M20 M25 M20 M25 M25 M32	PG16 PG21 PG16 PG21 PG21 PG29	H10B-SGR-LB-PG16 H10B-SGR-LB-PG21 H10B-SGR-LB-M20 H10B-SGR-LB-M25 H10B-SGR-LB-2PG16 H10B-SGR-LB-2PG21 H10B-SGR-LB-2M20 H10B-SGR-LB-2M25 H10B-SGRH-LB-PG21 H10B-SGRH-LB-PG29 H10B-SGRH-LB-M32 H10B-SGRH-LB-M32 H10B-SGRH-LB-M32	
				еепту	M25 M32	PG21 PG29	H10B-SGRH-LB-2PG29 H10B-SGRH-LB-2M25 H10B-SGRH-LB-2M32	
	M20 M25 M32	PG21 PG29	H10B-TGH-RO-PG21 H10B-TGH-RO-PG29 H10B-TGH-RO-M20 H10B-TGH-RO-M25 H10B-TGH-RO-M32	1 Side entry 2 Side entry 1 Side entry Low construction High	M20 M25 M20 M25	PG16 PG21 PG16 PG21 PG21 PG29	H10B-SDR-LB-PG16 H10B-SDR-LB-PG21 H10B-SDR-LB-M20 H10B-SDR-LB-M25 H10B-SDR-LB-2PG16 H10B-SDR-LB-2PG21 H10B-SDR-LB-2M20 H10B-SDR-LB-2M25 H10B-SDR-LB-PG21 H10B-SDRH-LB-PG29	
				y 2 Side entry sh construction	M25 M32 M25 M32	PG21 PG29	H10B-SDRH-LB-M25 H10B-SDRH-LB-M32 H10B-SDRH-LB-2PG21 H10B-SDRH-LB-2PG29 H10B-SDRH-LB-2M25 H10B-SDRH-LB-2M32	
Cable-to-cable hood			I					
Low construction High construction	M20 M25 M25 M32	PG16 PG21 PG29	H10B-TBF-LB-PG16 H10B-TBF-LB-M20 H10B-TBF-LB-M25 H10B-TBFH-LB-PG21 H10B-TBFH-LB-PG29 H10B-TBFH-LB-M25 H10B-TBFH-LB-M32					
Protection covers for h	noods							
			H10B-KDTP-LB					



H16B with 2 levers on the hoods/housings

H16B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL H16B COVERS INCLUDE PLASTIC AND METAL COVERS

H16B metal hoods	Metr.	PG	Туре	H16B metal housings	Metr.	PG	Туре	
Hood: Side entry				Bulkhead mounted				
	M25 M32	PG16 PG21	H16B-TS-PG16 H16B-TS-PG21 H16B-TS-M25 H16B-TS-M32				H16B-AGS	
				Surface mounted: Sid	le entry			
	M25	PG21 PG29	H16B-TSH-PG21 H16B-TSH-PG29 H16B-TSH-M25 H16B-TSH-M32 H16B-TSH-M40	1 Side entry 2 Side entre Low construction	M25 M25	PG21 PG21 PG21	H16B-SGRS-PG21 H16B-SGRS-M25 H16B-SGRS-2PG21 H16B-SGRS-2M25 H16B-SGRHS-PG21	
	M32 M40			ny 1 Side antry 2 Bidd High comtruction	M25 M32	PG29 PG21 PG29	H16B-SGRHS-PG29 H16B-SGRHS-M25 H16B-SGRHS-M32 H16B-SGRHS-2PG21 H16B-SGRHS-2PG29 H16B-SGRHS-2M25	
				n n	M32		H16B-SGRHS-2M32	
Hood: Top entry		1	I	Side entry housing w	ith two le	evers		
		PG16 PG21		Low construction	M20 M25	PG16 PG21	H16B-TSBS-PG16 H16B-TSBS-PG21 H16B-TSBS-M20 H16B-TSBS-M25	
	M25 M32			High construction	M25 M32	PG21 PG29	H16B-TSBHS-PG21 H16B-TSBHS-PG29 H16B-TSBHS-M25 H16B-TSBHS-M32	
		Top entry housing with two levers						
		PG21 PG29	H16B-TGH-PG21 H16B-TGH-PG29 H16B-TGH-M25 H16B-TGH-M32 H16B-TGH-M40	Low construction High construction	M20 M25	PG16 PG21	H16B-TGBS-PG16 H16B-TGBS-PG21 H16B-TGBS-M20 H16B-TGBS-M25	
					M25 M32	PG21 PG29	H16B-TGBHS-PG21 H16B-TGBHS-PG29 H16B-TGBHS-M25 H16B-TGBHS-M32	
Cable-to-cable hood				Bulkhead mounted with 4 bolts				
	M25 M32	PG21	H16B-TBFS-PG21 H16B-TBFS-M25 H16B-TBFS-M32 H16B-TBFHS-PG21					
233	High construction M40	PG21 PG29	H16B-1BFHS-PG21 H16B-TBFHS-PG29 H16B-TBFHS-M25 H16B-TBFHS-M32 H16B-TBFHS-M40				H16B-AD-BO	
Protection covers for		1 Sid	МОГ	PG21	H16B-SDR-BO-PG21			
			H16B-KDTP	seentry 2 Side entry Low construction	M25 M25	PG21	H16B-SDR-BO-M25 H16B-SDR-BO-2PG21 H16B-SDR-BO-2M25	
Housing washing	<u> </u>				M25	PG21 PG29	H16B-SDRH-BO-PG21 H16B-SDRH-BO-PG29 H16B-SDRH-BO-M25	
Housing protection co		1 Side entry	M32	Desa	H16B-SDRH-BO-M32			
0			H16B-KDBP	e entry 2 Side entry High construction	M25 M32	PG21 PG29	H16B-SDRH-BO-2PG21 H16B-SDRH-BO-2PG29 H16B-SDRH-BO-2M25 H16B-SDRH-BO-2M32	



H16B with 1 lever on the hoods/housings

H16B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL H16B COVERS INCLUDE PLASTIC AND METAL COVERS

H16B metal hoods	Metr.	PG	Туре	H16B metal housings	Metr.	PG	Туре	
Hood: Side entry		Bulkhead mounted						
200	M25 M32	PG21 PG29	H16B-TS-RO-PG21 H16B-TS-RO-PG29 H16B-TS-RO-M25 H16B-TS-RO-M32				H16B-AG-LB	
	M25 M32 M40	PG21 PG29	H16B-TSH-RO-PG21 H16B-TSH-RO-PG29 H16B-TSH-RO-M25 H16B-TSH-RO-M32 H16B-TSH-RO-M40				H16B-AD-LB	
Hood: Top entry				Surface mounted: Side entry				
	M25	PG21 PG29	H16B-TG-RO-PG21 H16B-TG-RO-PG29 H16B-TG-RO-M25	1 Side entry 2 Side entry 1 Side entry 1 Side entry Low construction High	M20 M25 M20 M25	PG16 PG21 PG16 PG21	H16B-SGR-LB-PG16 H16B-SGR-LB-PG21 H16B-SGR-LB-M20 H16B-SGR-LB-M25 H16B-SGR-LB-2PG16 H16B-SGR-LB-2PG21 H16B-SGR-LB-2M20 H16B-SGR-LB-2M25 H16B-SGR-LB-PG21	
	M32		H16B-TG-RO-M32	entry 2 Side entry High construction	M25 M32 M25 M32	PG29 PG21 PG29	H16B-SGRH-LB-PG29 H16B-SGRH-LB-M25 H16B-SGRH-LB-M32 H16B-SGRH-LB-2PG21 H16B-SGRH-LB-2PG29 H16B-SGRH-LB-2M25 H16B-SGRH-LB-2M32	
		PG21 PG29	H16B-TGH-RO-PG21 H16B-TGH-RO-PG29	1 Side entry 2 Side entry Low construction	M20 M25 M20 M20 M25	PG16 PG21 PG16 PG21	H16B-SDR-LB-PG16 H16B-SDR-LB-PG21 H16B-SDR-LB-M20 H16B-SDR-LB-M25 H16B-SDR-LB-2PG16 H16B-SDR-LB-2PG21 H16B-SDR-LB-2M20 H16B-SDR-LB-2M25	
	M25 M32 M40		H16B-TGH-RO-M25 H16B-TGH-RO-M32 H16B-TGH-RO-M40	1 Side entry 2 Side entry High construction	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H16B-SDRH-LB-PG21 H16B-SDRH-LB-PG29 H16B-SDRH-LB-M25 H16B-SDRH-LB-M32 H16B-SDRH-LB-2PG21 H16B-SDRH-LB-2PG29 H16B-SDRH-LB-2M25 H16B-SDRH-LB-2M32	
Cable-to-cable hood	ı							
Low construction High construction	M25 M32 M25 M32 M40	PG21 PG29 PG21 PG29	H16B-TBF-LB-PG21 H16B-TBF-LB-PG29 H16B-TBF-LB-M25 H16B-TBF-LB-M32 H16B-TBFH-LB-PG21 H16B-TBFH-LB-PG29 H16B-TBFH-LB-M25 H16B-TBFH-LB-M32 H16B-TBFH-LB-M40					
Protection covers for h								
			H16B-KDTP-LB					



H24B with 2 levers on the hoods/housings

H24B LEVERS INCLUDE METAL, PLASTIC AND STAINLESS STEEL H24B COVERS INCLUDE PLASTIC AND METAL COVERS

H24B metal hoods	Metr.			H24B metal housings	Metr.	PG	Туре		
Hood: Side entry				Bulkhead mounted					
1	M25 M32	PG16 PG21	H24B-TS-PG16 H24B-TS-PG21 H24B-TS-M25 H24B-TS-M32				H24B-AGS		
				Surface mounted: Side entry					
	M25	PG21 PG29	H24B-TSH-PG21 H24B-TSH-PG29 H24B-TSH-M25	1 Side entry 2 Side entry Low construction	M25 M25	PG21 PG21 PG21	H24B-SGRS-PG21 H24B-SGRS-M25 H24B-SGRS-2PG21 H24B-SGRS-2M25 H24B-SGRHS-PG21		
THE STREET	M32 M40		H24B-TSH-M32 H24B-TSH-M40	1 Side entry 2 Side High community High community and High community High Communi	M25 M32	PG29 PG21 PG29	H24B-SGRHS-PG29 H24B-SGRHS-M25 H24B-SGRHS-M32 H24B-SGRHS-2PG21 H24B-SGRHS-2PG29		
				n	M25 M32		H24B-SGRHS-2M25 H24B-SGRHS-2M32		
Hood: Top entry			Side entry housing wi	th two le	evers				
		PG16 PG21	H24B-TG-PG16 H24B-TG-PG21	Low construction	M20 M25	PG16 PG21	H24B-TSBS-PG16 H24B-TSBS-PG21 H24B-TSBS-M20 H24B-TSBS-M25		
Total A	M25 M32		H24B-TG-M25 H24B-TG-M32	ä	M25 M32	PG21 PG29	H24B-TSBHS-PG21 H24B-TSBHS-PG29 H24B-TSBHS-M25 H24B-TSBHS-M32		
				Top entry housing with two levers					
	M25	PG21 PG29	H24B-TGH-PG21 H24B-TGH-PG29 H24B-TGH-M25	Low construction	M20 M25	PG16 PG21	H24B-TGBS-PG16 H24B-TGBS-PG21 H24B-TGBS-M20 H24B-TGBS-M25		
	M32 M40		H24B-TGH-M32 H24B-TGH-M40	High construction	M25 M32	PG21 PG29	H24B-TGBHS-PG21 H24B-TGBHS-PG29 H24B-TGBHS-M25 H24B-TGBHS-M32		
Cable-to-cable hood				Bulkhead mounted with 4 bolts					
Low construction High construction	M25 M32 M25 M32 M40	PG21 PG21 PG29	H24B-TBFS-PG21 H24B-TBFS-M25 H24B-TBFS-M32 H24B-TBFHS-PG21 H24B-TBFHS-PG29 H24B-TBFHS-M25 H24B-TBFHS-M32 H24B-TBFHS-M40				H24B-AD-BO		
Protection covers for hoods		1 Side	Mae	PG21	H24B-SDR-BO-PG21				
			H24B-KDTP	Side entry 2 Side entry Low construction	M25 M25	PG21	H24B-SDR-BO-M25 H24B-SDR-BO-2PG21 H24B-SDR-BO-2M25		
Housing protection co	Ver				M25	PG21 PG29	H24B-SDRH-BO-PG21 H24B-SDRH-BO-PG29 H24B-SDRH-BO-M25		
Tiousing protection co	vGI			1 Side entry High co	M32		H24B-SDRH-BO-M32		
6			H24B-KDBP	entry 2 side entry High construction	M25 M32	PG21 PG29	H24B-SDRH-BO-2PG21 H24B-SDRH-BO-2PG29 H24B-SDRH-BO-2M25 H24B-SDRH-BO-2M32		



H24B with 1 lever on the hoods/housings

H24B metal hoods	Metr.	PG	Туре	H24B metal housings	Metr.	PG	Туре
Hood: Side entry				Bulkhead mounted			
	M25 M32	PG21 PG29	H24B-TS-RO-PG21 H24B-TS-RO-PG29 H24B-TS-RO-M25 H24B-TS-RO-M32				H24B-AG-LB
	M25 M32 M40	PG21 PG29	H24B-TSH-RO-PG21 H24B-TSH-RO-PG29 H24B-TSH-RO-M25 H24B-TSH-RO-M32 H24B-TSH-RO-M40				H24B-AD-LB
Hood: Top entry				Surface mounted: Sid	e entry		
	M25 M32	PG21 PG29	H24B-TG-RO-PG21 H24B-TG-RO-PG29 H24B-TG-RO-M25 H24B-TG-RO-M32	1 Side entry 2 Side entry 2 Side entry	M20 M25	PG16 PG21 PG16 PG21	H24B-SGR-LB-PG16 H24B-SGR-LB-PG21 H24B-SGR-LB-M20 H24B-SGR-LB-M25 H24B-SGR-LB-2PG16 H24B-SGR-LB-2PG21 H24B-SGR-LB-2M20
	M25 M32 M40	PG21 PG29	H24B-TGH-RO-PG21 H24B-TGH-RO-PG29 H24B-TGH-RO-M25 H24B-TGH-RO-M32 H24B-TGH-RO-M40	1 Side entry 2 Side entry High construction	M25 M32 M25 M32	PG21 PG29 PG21 PG29	H24B-SGR-LB-2M25 H24B-SGRH-LB-PG21 H24B-SGRH-LB-PG29 H24B-SGRH-LB-M25 H24B-SGRH-LB-M32 H24B-SGRH-LB-2PG21 H24B-SGRH-LB-2PG29 H24B-SGRH-LB-2M25 H24B-SGRH-LB-2M32
Cable-to-cable hood							
Low construction High construction	M25 M32 M25 M32 M40	PG21 PG29 PG21 PG29	H24B-TBF-LB-PG21 H24B-TBF-LB-PG29 H24B-TBF-LB-M25 H24B-TBF-LB-M32 H24B-TBFH-LB-PG21 H24B-TBFH-LB-PG29 H24B-TBFH-LB-M25 H24B-TBFH-LB-M32 H24B-TBFH-LB-M40	1 Side entry 2 Side entry 1 Sid Low construction	M20 M25 M20 M25	PG16 PG21 PG16 PG21	H24B-SDR-LB-PG16 H24B-SDR-LB-PG21 H24B-SDR-LB-M20 H24B-SDR-LB-M25 H24B-SDR-LB-2PG16 H24B-SDR-LB-2PG21 H24B-SDR-LB-2M20 H24B-SDR-LB-2M25 H24B-SDR-LB-2M25
Protection covers for h	oous			High	M25	PG29	H24B-SDRH-LB-PG29 H24B-SDRH-LB-M25
			H24B-KDTP-LB	2 Side entry gh construction	M32 M25 M32	PG21 PG29	H24B-SDRH-LB-M32 H24B-SDRH-LB-2PG21 H24B-SDRH-LB-2PG29 H24B-SDRH-LB-2M25 H24B-SDRH-LB-2M32



H32B with 2 levers on the hoods/housings

				LIZZD with 1 levers				
H32B with 2 levers on the hoods, housings	Metr.	PG	Туре	H32B with 1 levers on the hoods, housings	Metr.	PG	Туре	
Hood: Side entry				Hood: Side entry				
	M25 M32 M40 M50	PG29 PG36	H32B-TS-PG29 H32B-TS-PG36 H32B-TS-M25 H32B-TS-M32 H32B-TS-M40 H32B-TS-M50		M25 M32 M40 M50	PG29 PG36	H32B-TS-RO-PG29 H32B-TS-RO-PG36 H32B-TS-RO-M25 H32B-TS-RO-M32 H32B-TS-RO-M40 H32B-TS-RO-M50	
Hood: Top entry				Hood: Top entry				
	M25 M32 M40 M50	PG29 PG36 PG42	H32B-TG-PG29 H32B-TG-PG36 H32B-TG-PG42 H32B-TG-M25 H32B-TG-M32 H32B-TG-M40 H32B-TG-M50		M25 M32 M40 M50	PG29 PG36 PG42	H32B-TG-RO-PG29 H32B-TG-RO-PG36 H32B-TG-RO-PG42 H32B-TG-RO-M25 H32B-TG-RO-M32 H32B-TG-RO-M40 H32B-TG-RO-M50	
Bulkhead mounted				Bulkhead mounted				
Surface mounted: Side	entry		H32B-AG				H32B-AG-LB	
Surface mounted. Side	entry	PG29	H32B-SGR-PG29					
1 Side entry 2 Side entry	M32 M40 M50 M63 M32 M40 M50 M63	PG29 PG36 PG42 PG29 PG36 PG42	H32B-SGR-PG29 H32B-SGR-PG36 H32B-SGR-PG42 H32B-SGR-M32 H32B-SGR-M50 H32B-SGR-M63 H32B-SGR-2PG29 H32B-SGR-2PG36 H32B-SGR-2PG42 H32B-SGR-2M32 H32B-SGR-2M50 H32B-SGR-2M50 H32B-SGR-2M50				H32B-AD-LB	
Cable-to-cable hood				Surface mounted: Sic	le entry			
	M32 M40 M50 M63	PG29 PG36 PG42	H32B-TBF-PG29 H32B-TBF-PG36 H32B-TBF-PG42 H32B-TBF-M32 H32B-TBF-M40 H32B-TBF-M50 H32B-TBF-M63	1 Side entry 2 Side entry	M32 M40 M32 M40	PG29	H32B-SGR-LB-PG29 H32B-SGR-LB-M32 H32B-SGR-LB-M40 H32B-SGR-LB-2PG29 H32B-SGR-LB-2M32 H32B-SGR-LB-2M40	
Protection covers for h	oods							
			H32B-KDB	1 Side entry 2 Side entry	M32 M40 M32 M40	PG29	H32B-SDR-LB-PG29 H32B-SDR-LB-M32 H32B-SDR-LB-M40 H32B-SDR-LB-2PG29 H32B-SDR-LB-2M32 H32B-SDR-LB-2M40	



H48B series hoods/housings

H48B metal hoods	Metr.	PG	Туре	EMC metal hoods	Metr.	PG	Туре
Hood: Side entry				Hood: Side entry			
281	M32 M40 M50 M63	PG29 PG36 PG42	H48B-TS-PG29 H48B-TS-PG36 H48B-TS-PG42 H48B-TS-M32 H48B-TS-M40 H48B-TS-M50 H48B-TS-M63				H6B-TSH-EMCS H10B-TSH-EMCS H16B-TSH-EMCS H24B-TSH-EMCS
Hood: Top entry				Hood: Top entry			
	M32 M40 M50 M63	PG29 PG36 PG42	H48B-TG-PG29 H48B-TG-PG36 H48B-TG-PG42 H48B-TG-M32 H48B-TG-M40 H48B-TG-M50 H48B-TG-M63				H6B-TGH-EMCS H10B-TGH-EMCS H16B-TGH-EMCS H24B-TGH-EMCS
Bulkhead mounted				Bulkhead mounted			
			H48B-AG				H6B-AG-EMCS H10B-AG-EMCS H16B-AG-EMCS H24B-AG-EMCS
					·		
			H48B-AD-LB				H3A-MTS-EMC-M20 H3A-MTS-EMC-PG11 H6B-TSBHS-EMC H10B-TSBHS-EMC H16B-TSBHS-EMC H24B-TSBHS-EMC
Surface mounted: Sid	e entry			Hood: Top entry			
A DOC WITH	M32 M40 M50	PG29 PG36 PG42 PG29 PG36 PG42	H48B-SGR-PG29 H48B-SGR-PG36 H48B-SGR-PG42 H48B-SGR-M32 H48B-SGR-M40 H48B-SGR-PG29 H48B-SGR-2PG29 H48B-SGR-2PG42 H48B-SGR-2PG42 H48B-SGR-2M40 H48B-SGR-2M40 H48B-SGR-2M50				H3A-MTG-EMC-PG11 H3A-MTG-EMC-M20 H6B-TGBHS-EMC H10B-TGBHS-EMC H16B-TGBHS-EMC H24B-TGBHS-EMC
Surface mounted with	cover			Bulkhead mounted			
Lane mity	M32 M40 M50	PG29 PG36 PG42 PG29 PG36 PG42	H48B-SDR-PG29 H48B-SDR-PG36 H48B-SDR-PG42 H48B-SDR-M32 H48B-SDR-M40 H48B-SDR-M50 H48B-SDR-2PG29 H48B-SDR-2PG36 H48B-SDR-2PG42 H48B-SDR-2M32 H48B-SDR-2M32 H48B-SDR-2M50				H3A-MAG-S-EMC H3A-MAG-EMC H3A-MAGS-EMC H6B-AG-BO-EMC H10B-AG-BO-EMC H16B-AG-BO-EMC H24B-AG-BO-EMC



HIP.24/64, HIP-K.24/64, EMV-K.24/64 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 68 / IP 69 K

Description		Metr.	PG	Туре	Part Number
Hood: Side entry,	Standard construction				
	M/PG	M40	21 29	HIP HIP.24/64.STS.1.21.G HIP.24/64.STS.1.29 G HIP.24/64.STS.1.M40.G	1-1102658-5 1-1102660-5 0-1106473-2
		M40	29	HIP-K.24/64.STS.1.29.G HIP-K.24/64.STS.1.M40.G	2-1102660-5 0-1106473-4
	142 156	M25 M32 M40	29	EMV-K EMV-K.24/64.STS.1.29.G EMV-K.24/64.STS.1.M25.G EMV-K.24/64.STS.1.M32.G EMV-K.24/64.STS.1.M40.G	4-1102755-5 0-1102983-1 0-1106461-8 0-1106461-3
	M/PG -57-	M40	29 36	HIP HIP-KF.24/64.STS.1.29.G HIP-KF.24/64.STS.1.36.G HIP-KF.24/64.STS.1.M40.G	1-1102622-5 1-1102623-5 0-1106474-1
	115 M6x300	M40	29 36	HIP-K HIP-KF/K.24/64.STS.1.29.G HIP-KF/K. 24/64.STS.1.36G HIP-KF/K.24/64.STS.1.M40.G	2-1102622-5 2-1102623-5 0-1106474-2
	156	M40	29 36	EMV-K EMV-KF/K.24/64.STS.1.29.G EMV-KF/K.24/64.STS.1.36.G EMV-KF/K.24/64.STS.1.M40.G	4-1102732-5 4-1102733-5 0-1106462-2
Hood: Top entry,	Standard construction				I
		M40			
	M/PG 57	2xM32 M40	21 29	HIP HIP.24/64.STO.1.21.G HIP.24/64.STO.1.29.G HIP.24/64.STO.1.M40.G	1-1102662-5 1-1102664-5 0-1106473-1
	142	M40 2xM40	29	HIP-K HIP-K.24/64.STO.1.29.G HIP-K.24/64.STO.2.M32.G HIP-K.24/64.STO.1.M40.G	2-1102664-5 0-1102792-1 0-1106473-3
-	156 53	2xM40	29	EMV-K EMV-K.24/64.STO.1.29.G EMV-K.24/64.STO.1.M40.G	4-1102759-5 0-1106461-4
		2xM40			



HIP.24/64, HIP-K.24/64, EMV-K.24/64 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Pressure-tight up to 5 bar IP 68 / IP 69 K PG **Description** Metr. **Type Part Number** Surface mounted housing: Bottom entry, Standard construction HIP HIP.24/64.AG 1-1102665-5 HIP-K HIP-K.24/64.AG 2-1102665-5 EMV-K EMV-K.24/64.AG 4-1102760-5 M6x20 HIP HIP.24/64.AG.M6 1-1102626-5 HIP-K.24/64.AG.M6 2-1102626-5 HIP-K.24/64.AG.M6.D 2-1102628-5 HIP-K-I.24/64.AG.M6.D 0-1108533-1 EMV-K EMV-K.24/64.AG.M6 4-1102736-5 Surface mounted housing: Side entry, Standard construction HIP 29 HIP.24/64.SG.1.29.G 1-1102624-5 2x29 1-1102625-5 HIP.24/64.SG.2.29.G 2xM40 HIP.24/64.SG.2.M40.G 0-1106472-1 HIP-K HIP-K.24/64.SG.1.29.G 5-1102624-5 29 HIP-K.24/64.SG.2.29.G 2x29 2-1102625-5 2xM40 HIP-K.24/64.SG.2.M40.G 0-1106472-2 Ø 5,5. EMV-K EMV-K.24/64.SG.1.29.G 4-1102734-5 29 2x29 EMV-K.24/64.SG.2.29.G 4-1102735-5 2xM40 EMV-K.24/64.SG.2.M40.G 0-1106460-2 **Protective cover housings** M6x30 HIP HIP/EMV.24/64.SKB 3-1106204-5 ПŦП HIP-K/EMV-K 156



4-1106204-5

HIP-K/EMV-K.24/64.SKB

HF-HIP-K 8/HF-EMV-K 8, HF-HIP-K 12/HF-EMV-K 12 housings

HIP: Pressure-tight, silver-grey

HIP-K: Housings corrosion-resistant, black, according to DIN IEC 68 T2-52 and ASTM B117-09 > 1000h

EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black

Screw lock on hood

Description		Metr.	PG	Туре	Part Number
Hood					
	126 B 156 B	1xM50 1xM50 2xM40 2xM40		HF-HIP-K.8.Sto.1.M50G HF.8.EMV-K.8.Sto.1.M50G HF.HIP-K.8.Sto.2.M40G HF.EMV-K.8.Sto.2.M40G	0-1102839-4 0-1102839-3 0-1102839-2 0-1102839-1
Housing bottom					
		Hei	ght		
	184 184 184 180 184	81 mm 81 mm	20 mm 20 mm	HF-HIP-K.8.AG.N HF-EMV-K.8.AG.N HF-HIP-K.8.AG HF-EMV-K.8.AG	0-1102837-2 0-1102837-1 0-1102836-2 0-1102836-1
Hood					
		2xM40 2xM40 2xM50 2xM50		HF-HIP-K.12.Sto.2.M40G HF-EMV-K.12.Sto.2.M40G HF-HIP-K.12.Sto.2.M50G HF-EMV-K.12.Sto.2.M50G	0-1102840-2 0-1102840-1 0-1102840-4 0-1102840-3
Housing bottom					1
	194 194 199 199 199 199	81 mm 81 mm	20 mm 20 mm	HF-HIP-K.12.AG.N HF-EMV-K.12.AG.N HF-HIP-K.12.AG HF-EMVK-K.12.AG	0-1102838-2 0-1102838-1 0-1102192-2 0-1102192-1



Protective covers for hoods/housings

Reinforced plastic shell (UV-resistant), Versions with/without attachment string Metal-Version

Size 3, 4, 6 + 8

Description		Туре	Part Number
Protective cover for hood	ls and housings with bolts		
	A 41	SKP.6 SKP.8	0-1110684-3 0-1110661-3
Size 6/8	Size A=mm 6 105 8 132	with attachment string SKP.6.F SKP.8.F	0-1106258-3 0-1106258-4
	ls with central locking clip		1
	41 3	SKP.6/R SKP.8/R	0-1110684-4 0-1110661-4
Size 6/8	Size A=mm 6 105 8 132	with attachment string SKP.6/R.F SKP.8/R.F	0-1106259-3 0-1106259-4
Protective covers for hou	sings series HIP, EMV, EMV-K		
	M6x30 19 19 53	HIP HIP/EMV.6/16.SKB HIP-K HIP-K/EMV-K.6/16.SKB	3-1106201-5 4-1106201-5
	M6x30	HIP HIP/EMV.10/24.SKB HIP-K/EMV-K	3-1106202-5
	53	HIP-K/EMV-K.10/24.SKB	4-1106202-5
	M6x30	HIP/EMV.16/40.SKB	3-1106203-5
	<u> </u>	HIP-K HIP-K.16/40.SKB	4-1106203-5
	M6x30 156 156	HIP HIP/EMV.24/64.SKB	3-1106204-5
		HIP-K/EMV-K HIP-K/EMV-K.24/64.SKB	4-1106204-5



HPR (IP68) series hoods/housings

HBPR (IP68) SERIES

Opposite angle loc	cking	Size	Metr.	PG	Туре	Part Number
Hood: Side entry						
	1000 Indiana i	H6BPR	M20 M25 M32	PG16 PG21 PG29	H6BPR-TSH-PG16 H6BPR-TSH-PG21 H6BPR-TSH-PG29 H6BPR-TSH-M20 H6BPR-TSH-M25 H6BPR-TSH-M32	T 1 91 006 0116-000 T 1 91 006 0121-000 T 1 91 006 0129-000 T 1 91 006 0120-000 T 1 91 006 0125-000 T 1 91 006 0132-000
	SIZE A H H6BPR 133 101 H10BPR 146 101 H16BPR 166 111 H24BPR 193 111	H10BPR	M20 M25 M32	PG16 PG21 PG29	H10BPR-TSH-PG16 H10BPR-TSH-PG21 H10BPR-TSH-PG29 H10BPR-TSH-M20 H10BPR-TSH-M25 H10BPR-TSH-M32	T 1 91 010 0116-000 T 1 91 010 0121-000 T 1 91 010 0129-000 T 1 91 010 0120-000 T 1 91 010 0125-000 T 1 91 010 0132-000
		H16BPR	M25 M32 M40	PG16 PG21 PG29	H16BPR-TSH-PG16 H16BPR-TSH-PG21 H16BPR-TSH-PG29 H16BPR-TSH-M25 H16BPR-TSH-M32 H16BPR-TSH-M40	T 1 91 016 0116-000 T 1 91 016 0121-000 T 1 91 016 0129-000 T 1 91 016 0125-000 T 1 91 016 0132-000 T 1 91 016 0140-000
		H24BPR	M25 M32 M40	PG16 PG21 PG29	H24BPR-TSH-PG16 H24BPR-TSH-PG21 H24BPR-TSH-PG29 H24BPR-TSH-M25 H24BPR-TSH-M32 H24BPR-TSH-M40	T 1 91 024 0116-000 T 1 91 024 0121-000 T 1 91 024 0129-000 T 1 91 024 0125-000 T 1 91 024 0132-000 T 1 91 024 0140-000
Hood: Top entry						
	FPSS PPSS	H6BPR	M20 M25 M32	PG16 PG21 PG29	H6BPR-TGH-PG16 H6BPR-TGH-PG21 H6BPR-TGH-PG29 H6BPR-TGH-M20 H6BPR-TGH-M25 H6BPR-TGH-M32	T 1 92 006 0116-000 T 1 92 006 0121-000 T 1 92 006 0129-000 T 1 92 006 0120-000 T 1 92 006 0125-000 T 1 92 006 0132-000
	SIZE A H H6BPR 133 101 H10BPR 146 101 H16BPR 166 111 H24BPR 193 111	H10BPR	M20 M25 M32	PG16 PG21 PG29	H10BPR-TGH-PG16 H10BPR-TGH-PG21 H10BPR-TGH-PG29 H10BPR-TGH-M20 H10BPR-TGH-M25 H10BPR-TGH-M32	T 1 92 010 0116-000 T 1 92 010 0121-000 T 1 92 010 0129-000 T 1 92 010 0120-000 T 1 92 010 0125-000 T 1 92 010 0132-000
		H16BPR	M25 M32 M40	PG16 PG21 PG29	H16BPR-TGH-PG16 H16BPR-TGH-PG21 H16BPR-TGH-PG29 H16BPR-TGH-M25 H16BPR-TGH-M32 H16BPR-TGH-M40	T 1 92 016 0116-000 T 1 92 016 0121-000 T 1 92 016 0129-000 T 1 92 016 0125-000 T 1 92 016 0132-000 T 1 92 016 0140-000
		H24BPR	M25 M32 M40	PG16 PG21 PG29	H24BPR-TGH-PG16 H24BPR-TGH-PG21 H24BPR-TGH-PG29 H24BPR-TGH-M25 H24BPR-TGH-M32 H24BPR-TGH-M40	T 1 92 024 0116-000 T 1 92 024 0121-000 T 1 92 024 0129-000 T 1 92 024 0125-000 T 1 92 024 0132-000 T 1 92 024 0140-000



HPR (IP68) series hoods/housings

HBPR (IP68) SERIES

Opposite angle lo	cking	Size	Metr.	PG	Туре	Part Number
Bulkhead mounted	l					
	SIZE A B C H6BPR 70 133 48 H10BPR 83 146 60 H16BPR 103 166 82 H24BPR 130 193 108	H6BPR H10BPR H16BPR H24BPR			H6BPR-AG H10BPR-AG H16BPR-AG H24BPR-AG	T 1 93 006 0000-000 T 1 93 010 0000-000 T 1 93 016 0000-000 T 1 93 024 0000-000
Straight surface me	ounted					
	SIZE A B H10BPR 140 169	H10BPR	M25 M32	PG21 PG29	H10BPR-SGRH-PG21 H10BPR-SGRH-PG29 H10BPR-SGRH-M25 H10BPR-SGRH-M32	T 1 95 010 0121-000 T 1 95 010 0129-000 T 1 95 010 0125-000 T 1 95 010 0132-000
Cover						
	SIZE A H6BPR 133 H10BPR 146 H16BPR 166 H24BPR 193	H6BPR H10BPR H16BPR H24BPR			H6BPR-KDB H10BPR-KDB H16BPR-KDB H24BPR-KDB	T 1 99 006 0000-000 T 1 99 010 0000-000 T 1 99 016 0000-000 T 1 99 024 0000-000
Frame	ı	1	1	1	1	1
0	SIZE A B H24BPR 130 156	H24BPR			H24BPR-FRAME	T 1 99 024 0001-000



HPR (IP68) series hoods/housings

HBPR (IP68) SERIES

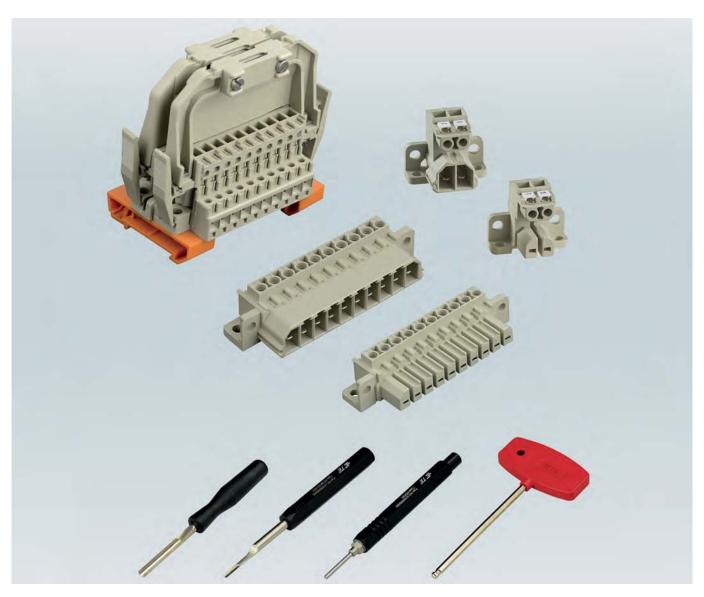
Hobbit H	Central locking		Size	Metr.	PG	Туре	Part Number
Hober Hood: Top entry Habbar Hober Hober Holder Ho	Hood: Side entry						
HIOBPR H			H6BPR	M32	PG29	H6BPR-TSHC-PG29 H6BPR-TSHC-PG36 H6BPR-TSHC-M25 H6BPR-TSHC-M32	T 1 91 206 1129-000 T 1 91 206 1136-000 T 1 91 206 1125-000 T 1 91 206 1132-000
H16BPR H16		H6BPR 96 70	H10BPR	M32	PG29	H10BPR-TSHC-PG29 H10BPR-TSHC-PG36 H10BPR-TSHC-M25 H10BPR-TSHC-M32	T 1 91 210 1129-000 T 1 91 210 1136-000 T 1 91 210 1125-000 T 1 91 210 1132-000
H24BPR M25 M32 M40 PG21 H24BPR-TSHC-PG36 P1 91 224 1135-000 H24BPR-TSHC-PG36 P1 91 224 1135-000 H24BPR-TSHC-M32 P1 91 224 1135-000 P1 91 91 91 91 91 91 91 91 91 91 91 91 91			H16BPR	M32	PG29	H16BPR-TSHC-PG29 H16BPR-TSHC-PG36 H16BPR-TSHC-M25 H16BPR-TSHC-M32	T 1 91 216 1129-000 T 1 91 216 1136-000 T 1 91 216 1125-000 T 1 91 216 1132-000
H6BPR H6BPR-TGHC-PG21 H6BPR-TGHC-PG21 T1 92 206 1121-000 H6BPR-TGHC-PG36 T1 92 206 1135-000 H6BPR-TGHC-M32 H6BPR-TGHC-M32 H6BPR-TGHC-M32 H6BPR-TGHC-M32 H6BPR-TGHC-M32 H6BPR-TGHC-PG36 H10BPR-TGHC-PG36 H10BPR-TGHC-PG36 H10BPR-TGHC-PG37 H10BPR-TGHC-PG37 H10BPR-TGHC-PG36 H10BPR-TGHC-PG36 H10BPR-TGHC-PG37 H10BPR-TGHC-PG37 H10BPR-TGHC-PG38 H10BPR-TGHC-PG39 H10BPR-TGHC-PG39 H10BPR-TGHC-PG39 H10BPR-TGHC-PG36 H10BPR-TGHC-PG37 H10BPR-TGHC-PG38 H10BPR-TGHC-PG38 H10BPR-TGHC-PG38 H10BPR-TGHC-PG31 H10BPR-TGHC-PG31 H10BPR-TGHC-PG37 H10BPR-TGHC-PG37 H10BPR-TGHC-PG37 H10BPR-TGHC-PG37 H10BPR-TGHC-PG38 H10BPR-TGHC-PG37 H10BPR-TGHC-PG38 H10BPR-TGH			H24BPR	M32	PG29	H24BPR-TSHC-PG29 H24BPR-TSHC-PG36 H24BPR-TSHC-M25 H24BPR-TSHC-M32	T 1 91 224 1129-000 T 1 91 224 1136-000 T 1 91 224 1125-000 T 1 91 224 1132-000
H6BPR M25 H6BPR-TGHC-PG36 H6BPR-TGHC-PG36 H6BPR-TGHC-M25 H6BPR-TGHC-M25 H6BPR-TGHC-M25 H6BPR-TGHC-M32 H6BPR-TGHC-M32 H6BPR-TGHC-M32 H6BPR-TGHC-M32 H6BPR-TGHC-M32 H6BPR-TGHC-PG36 H24BPR-TGHC-PG36 H24BP	Hood: Top entry						
H10BPR H10BPR H10BPR H10BPR-TGHC-PG29 H10BPR-TGHC-PG36 T1 92 210 1136-000 T1 92 210 1132-000 T1 92 210 1140-000 T1 92	The state of the s		H6BPR	M32	PG29	H6BPR-TGHC-PG29 H6BPR-TGHC-PG36 H6BPR-TGHC-M25 H6BPR-TGHC-M32	T 1 92 206 1129-000 T 1 92 206 1136-000 T 1 92 206 1125-000 T 1 92 206 1132-000
H24BPR 156 80 H16BPR H16BPR H16BPR-TGHC-PG21 T 1 92 216 1121-000 T 1 92 216 1125-000 T 1 92 216 1125-000 T 1 92 216 1135-000 T 1 92 216 1135-000 H16BPR-TGHC-M32 H16BPR-TGHC-M32 H16BPR-TGHC-M32 H16BPR-TGHC-M32 H16BPR-TGHC-M32 H16BPR-TGHC-PG39 H24BPR-TGHC-PG39 H24BPR-TGHC-PG30 T 1 92 224 1121-000 T 1 92 224 1125-000 T 1 92 224 1135-000 T 1 92 22		H6BPR 96 70 H10BPR 110 70	H10BPR	M32	PG29	H10BPR-TGHC-PG29 H10BPR-TGHC-PG36 H10BPR-TGHC-M25 H10BPR-TGHC-M32	T 1 92 210 1129-000 T 1 92 210 1136-000 T 1 92 210 1125-000 T 1 92 210 1132-000
Bulkhead mounted H24BPR M25 M32 M40 H24BPR-TGHC-PG21 H24BPR-TGHC-PG29 H24BPR-TGHC-PG36 H24BPR-TGHC-PG36 H24BPR-TGHC-PG36 H24BPR-TGHC-M2S T 1 92 224 1125-000 T 1 92 224 1136-000 T 1 92 224 1121-000 T 1 93 210 1000-000 T 1 93 210 1000-000 T 1 93 210 1000-000 T 1 93 224 1000-000			H16BPR	M32	PG29	H16BPR-TGHC-PG29 H16BPR-TGHC-PG36 H16BPR-TGHC-M25 H16BPR-TGHC-M32	T 1 92 216 1129-000 T 1 92 216 1136-000 T 1 92 216 1125-000 T 1 92 216 1132-000
H6BPR H10BPR H10BPR H16BPR H16BPR H24BPR H24BPR H30 156 108 H30 156 108 H6BPR H24BPR H6BPR H24BPR H70 H24BPR H24BPR H70			H24BPR	M25 M32	PG29	H24BPR-TGHC-PG29 H24BPR-TGHC-PG36 H24BPR-TGHC-M2S H24BPR-TGHC-M32	T 1 92 224 1121-000 T 1 92 224 1129-000 T 1 92 224 1136-000 T 1 92 224 1125-000 T 1 92 224 1132-000
H6BPR H6BPR H6BPR H6BPR H10BPR H10BPR H10BPR H10BPR H10BPR H10BPR H10BPR H10BPR H24BPR H24BP	Bulkhead mounted						
		SIZE A B C H6BPR 70 96 48 H10BPR 83 110 60 H16BPR 103 130 82	H10BPR H16BPR			H10BPR-AGC H16BPR-AGC	T 1 93 210 1000-000 T 1 93 216 1000-000
H24BPR-KDBP T 1 99 024 0000-000	Cover				T	I	1
		153.5 51.5 442	H24BPR			H24BPR-KDBP	T 1 99 024 0000-000



Notes	



Tools and inserts and rail mounting elements



Specifications
 DIN VDE 0110 Concerning clearance and clearage distances
 DIN VDE 0627 Connectors and plug devices

2. Standards
DIN EN 60 664-1
DIN EN 61 984

3. Approvals





Tools and accessories

Crimping tools and remove tools

Crimp tool			Crimp tool			
Wire range: 0.5- 4.0mm ² Suitable for CDM/CDF and CEM/CEF contacts			Wire range: 4.0-10.0mm² Used for CMM/ CMF contacts			
Туре	CRIMPBOX-0.5/4		Туре	CRIMPBOX-4.0/10.0)	
Part Number	T 3 10 000 0001-000		Part Number	T 3 10 000 1001-000		
Crimp tool			Remove tool			
Wire range: 0.14- 4.0mm² Suitable for CDM/ CDF and CEM/ CEF contacts with locator and die			Used for CDM/ CDF contact series			
Туре	RSZ.HE-HN.D-HVT		Туре	REMOV-HD		
Part Number	1-1105851-8		Part Number	T 3 10 000 0003-000		
Remove tool Used for CEM/ CMF contact series			Remove tool Used for 5A contacts (Ø1mm)			
Туре	REMOV-HEE	REMOV-HEEE	Material	Metal	Plastic	
Part Number	T 310 000 0002-000	T 3 10 000 0016-000	Part Number	T 3 10 000 0017-000	T 3 10 000 0018-000	
Remove tool Used for CMM/ CMF contact series						
Туре	REMOV-MM					

Axial screw tool and crimping tool

M3 screw driver		Tool	
Used for HA/ HE inserts		Used for 100A inserts	
Туре	SCREWD-M3	Туре	HEXA-D1
Part Number	T 3 10 000 0009-000	Part Number	T 3 10 000 0010-000
Tool		Crimping tool	
Used for 40A inserts		Wire range: 10.0-120.0mm²	
		Used for 200A contacts	
Туре	HEXA-D2	Туре	CRIMPBOX-10/120
Part Number	T 3 10 000 0012-000	Part Number	T 3 10 000 0015-000



Crimp contacts

10A Contact

Tech data Material: copper alloy	10A Male crimp contacts	Wire gau	ge	Strip- ping length	ping		Crimp contacts, gold-plated		
Contact resistance: ≤3mΩ	25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal: crimp connection CDM/Male		0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDM-0.14 CDM-0.5 CDM-0.75 CDM-1.0 CDM-1.5 CDM-2.5	T 2 02 000 1002-000 T 2 02 000 1005-000 T 2 02 000 1008-000 T 2 02 000 1010-000 T 2 02 000 1015-000 T 2 02 000 1025-000	DDM-0.14 DDM-0.5 DDM-0.75 DDM-1.0 DDM-1.5 DDM-2.5	T 2 02 001 1002-000 T 2 02 001 1005-000 T 2 02 001 1008-000 T 2 02 001 1010-000 T 2 02 001 1015-000 T 2 02 001 1025-000	
CDF/Female	10A Female crimp contacts	0.14-0.37 0.5 0.75 1.0 1.5 2.5	26-22 20 18 18 16 14	8.0 8.0 8.0 8.0 8.0	CDF-0.14 CDF-0.5 CDF-0.75 CDF-1.0 CDF-1.5 CDF-2.5	T 2 02 000 2002-000 T 2 02 000 2005-000 T 2 02 000 2008-000 T 2 02 000 2010-000 T 2 02 000 2015-000 T 2 02 000 2025-000	DDF-0.14 DDF-0.5 DDF-0.75 DDF-1.0 DDF-1.5 DDF-2.5	T 2 02 001 2002-000 T 2 02 001 2005-000 T 2 02 001 2008-000 T 2 02 001 2010-000 T 2 02 001 2015-000 T 2 02 001 2025-000	

16A Contact

Tech data Material: copper alloy 16A Male crimp contacts		Wire gauge Strip- ping length		ping	Crimp contacts, silver-plated		Crimp contacts, gold-plated		
Contact resistance: $\leq 1 \text{m}\Omega$	7.50 25.00	mm²	AWG	mm	Туре	Part Number	Туре	Part Number	
Terminal:		0.14-0.37	26-22	7.5	CEM-0.3	T 2 03 000 1002-000	DEM-0.3	T 2 03 001 1002-000	
crimp connection		0.5	20	7.5	CEM-0.5	T 2 03 000 1005-000	DEM-0.5	T 2 03 001 1005-000	
CEM/Male		0.75	18	7.5	CEM-0.75	T 2 03 000 1008-000	DEM-0.75	T 2 03 001 1008-000	
		1.0	18	7.5	CEM-1.0	T 2 03 000 1010-000	DEM-1.0	T 2 03 001 1010-000	
		1.5	16	7.5	CEM-1.5	T 2 03 000 1015-000	DEM-1.5	T 2 03 001 1015-000	
		2.5	14	7.5	CEM-2.5	T 2 03 000 1025-000	DEM-2.5	T 2 03 001 1025-000	
		4.0	12	7.5	CEM-4.0	T 2 03 000 1040-000	DEM-4.0	T 2 03 001 1040-000	
CEF/Female	16A Female	0.14-0.37	26-22	7.5	CEF-0.3	T 2 03 000 2002-000	DEF-0.3	T 2 03 001 2002-000	
	crimp contacts	0.5	20	7.5	CEF-0.5	T 2 03 000 2005-000	DEF-0.5	T 2 03 001 2005-000	
The state of		0.75	18	7.5	CEF-0.75	T 2 03 000 2008-000	DEF-0.75	T 2 03 001 2008-000	
	7.50	1.0	18	7.5	CEF-1.0	T 2 03 000 2010-000	DEF-1.0	T 2 03 001 2010-000	
		1.5	16	7.5	CEF-1.5	T 2 03 000 2015-000	DEF-1.5	T 2 03 001 2015-000	
		2.5	14	7.5	CEF-2.5	T 2 03 000 2025-000	DEF-2.5	T 2 03 001 2025-000	
		4.0	12	7.5	CEF-4.0	T 2 03 000 2040-000	DEF-4.0	T 2 03 001 2040-000	



Crimp contacts

40A Contact

Tech data Material: copper alloy	40A Male crimp contacts	Wire gauge		Stripping length	Crimp contacts, silver-plated		
Contact resistance: ≤0.3mΩ	250 2600	mm²	AWG	mm	Туре	Part Number	
Terminal:							
crimp connection		1.5	16	8.0	CMM-1.5	T 2 04 000 1015-000	
CMM/Male		2.5	14	8.0	CMM-2.5	T 2 04 000 1025-000	
		4.0	12	8.0	CMM-4.0	T 2 04 000 1040-000	
		6.0	10	8.0	CMM-6.0	T 2 04 000 1060-000	
CMF/Female	40A Female	1.5	16	8.0	CMF-1.5	T 2 04 000 2015-000	
	crimp contacts	2.5	14	8.0	CMF-2.5	T 2 04 000 2025-000	
		4.0	12	8.0	CMF-4.0	T 2 04 000 2040-000	
	23.50	6.0	10	8.0	CMF-6.0	T 2 04 000 2060-000	
	 	10	7	8.0	CMF-10	T 2 04 000 2100-000	

100A Contact

Tech data Material:	100A Male crimp contacts	Wire gauge	Ø	Stripping length	Crimp contacts, silver-plated	
copper alloy	3					
Contact resistance: $\leq 1 \text{m}\Omega$	20.00	mm²		mm	Туре	Part Number
Terminal: crimp connection CDM/Male		10 16 25 35	4.3 5.5 7 8.2	19 19 19 16	CNM-10 CNM-16 CNM-25 CNM-35	T 2 05 000 1010-000 T 2 05 000 1016-000 T 2 05 000 1025-000 T 2 05 000 1035-000
CDF/Female	100A Female crimp contacts	10 16 25 35	4.3 5.5 7 8.2	19 19 19 16	CNF-10 CNF-16 CNF-25 CNF-35	T 2 05 000 2010-000 T 2 05 000 2016-000 T 2 05 000 2025-000 T 2 05 000 2035-000



Crimp contacts

200A Contact

Tech data Material:	200A Male crimp contacts	Wire gauge		Stripping length	Crimp contacts, silver-plated		
copper Contact							
resistance: ≤0.3mΩ	47.70	mm ²		mm	Туре	Part Number	
Terminal:							
crimp connection							
CHM/Male		25	7.0	22.5	CHM-25	T 2 06 000 1025-000	
		35	8.2	22.5	CHM-35	T 2 06 000 1035-000	
The state of the state of		50	10.0	22.5	CHM-50	T 2 06 000 1050-000	
		70	11.5	22.5	CHM-70	T 2 06 000 1070-000	
CHF/Female	200A Female						
	crimp contacts	25	7.0	22.5	CHF-25	T 2 06 000 2025-000	
Accessed to		35	8.2	22.5	CHF-35	T 2 06 000 2035-000	
	22.50	50	10.0	22.5	CHF-50	T 2 06 000 2050-000	
	45.60	70	11.5	22.5	CHF-70	T 2 06 000 2070-000	

PCB Adapter

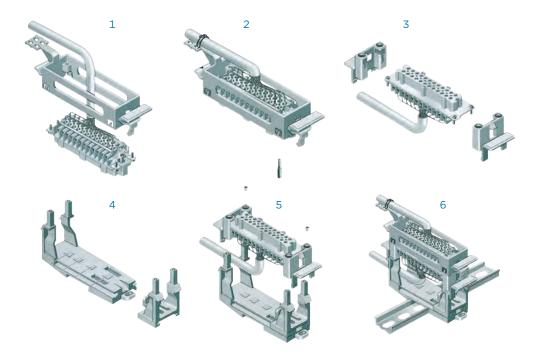




Insert mounting element



Set	Parts order	Туре	Part Number							
Insert mounting with carrier element										
Top → Base →	H6B set Top Base Top Base H16B set Top Base Top Base Top Base Top Base	H10B-Rail-top HB-Rail-base H16B-Rail-top HB-Rail-base H24B-Rail-top	T 1 87 006 2101-000 T 1 87 000 2201-000 T 1 87 010 2101-000 T 1 87 000 2201-000 T 1 87 016 2101-000 T 1 87 000 2201-000 T 1 87 024 2101-000 T 1 87 000 2201-000							



- 1 Attach insert in top carrier element
- 2 Set up strain relief e.g. by cable ties
- 3 Attach fixing clamps to base insert
- 4 Adjust base element to the dimensions of the insert
- 5 Attach base assembly to base element
- 6 Connect top and base inserts



Installation elements

Coding of hoods/housings	and inserts	Туре	Part Number
Standard code pin (Stainless steel)	1	Ordinary type CODING-PIN-M3-TM CODING-PIN-M3-TF Stainless steel CODING-PIN-M3-STM CODING-PIN-M3-STF	Ordinary type T 0 93 100 0423-000 T 0 93 100 6524-000 Stainless steel T 0 93 200 0423-000 T 0 93 200 6524-000
Guiding pins (Stainless steel)	5.0 23.0 15.0 III III III III III III III III III I	Ordinary type King-size CODING-PIN-M3-LTM CODING-PIN-M3-LTF Stainless steel, King-size CODING-PIN-M3-LSTM CODING-PIN-M3-LSTF	Ordinary type King-size T 0 93 100 0425-000 T 0 93 100 6527-000 Stainless steel, King-size T 0 93 110 0425-000 T 0 93 110 6527-000
Guiding pins (screw thread extended)	14.8 ²² 24.8±0.2 X X X X X X X X X X X X X	Ordinary type (screw thread extended) CODING-PIN-M3-LTM CODING-PIN-M3-LTF Stainless steel (screw thread extended) CODING-PIN-M3-STM CODING-PIN-M3-STF	Ordinary type (screw thread extended) T 0 93 110 0425-000 T 0 93 110 6527-000 Ordinary type (screw thread extended) T 0 93 110 0423-000 T 0 93 110 6524-000



HEE-015 insert

INSERTS MOUNTING WITHOUT HOOD/HOUSING

200V MAX. 16A

15+⊕

Dimensions (mm)	Туре	Part Number		
			Male insert	Female insert
Crimp terminal (Order crimp c	ontacts separately)			
de la constante de la constant		HEE-015-M	T 2 08 015 2101-000	
	2007 132 2 332 2 332 2 332 3 332 3 332 3 332 3 332 3 332 3 332 3 332 3 332 3 332 3 332 3 332 3 332 3 332 3 332	HEE-015-F		T 2 08 015 2201-000
Contact arrangement view from termination side	Panel cut out for inserts for use without hoods/housings			
(B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	100 mm m m m m m m m m m m m m m m m m m			

Order crimp contacts separately Female contact type: CSF-1.5

Female contact p/n: T0080002015-010



Other connectors

		Designation	Туре	Part Number
3-poles connector				
Rated: 25A, 500V				
Contact surface: Silver plated		3 poles male insert 3 poles female insert	HCC-003-M HCC-003-F	T 2 10 003 2101-000 T 2 10 003 2101-000
Flammability acc. to UL94: V0	ololol	o poles remaie insert	1166 003 1	1 2 10 003 2101 000
Terminal: Screw terminal				



Installation elements

Grip frame, screw adapter and screw	Туре	Part Number						
H24B grip frame (further variants are avialable on request)								
		HB-SB-024	T 3 40 312 1350-000					
Screw adapter and screw								
		HB-GDZ-S HB-GDZ-X	T 3 40 312 1000-000					
M5 Screw								
		FIX-M5	T 0 93 240 6003-000					
Extend earth terminal								
A de la constante de la consta		EXTEND-PE	T 0 92 600 3000-000					



Cable glands and accessories



Cable glands made from plastic and brass EMC cable glands

For hazardous areas in accordance with DIN EN 50014 DIN EN 50019





Cross reference from PG thread to metric thread



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Cable glands, brass nicked plated	'				
		PG7	2~5 3~6.5	DLX-7-MTS DLX-7-MS	T 3 609 0701 11-000 T 3 609 0701 01-000
		PG9	2~6 4~8	DLX-9-MTS DLX-9-MS	T 3 609 0901 11-000 T 3 609 0901 01-000
		PG11	3~7 5~10	DLX-11-MTS DLX-11-MS	T 3 609 1101 11-000 T 3 609 1101 01-000
		PG13.5	5~9 6~12	DLX-13-MTS DLX-13-MS	T 3 609 1301 11-000 T 3 609 1301 01-000
		PG16	7~12 10~14	DLX-16-MTS DLX-16-MS	T 3 609 1601 11-000 T 3 609 1601 01-000
Material: Nickel plated brass Press seal material: PA		PG21	9~16 13~18	DLX-21-MTS DLX-21-MS	T 3 609 2101 11-000 T 3 609 2101 01-000
Seal material: NBR Temperature range: -40°C ~ +100°C		PG29	13~20 18~25	DLX-29-MTS DLX-29-MS	T 3 609 2901 11-000 T 3 609 2901 01-000
Protection: IP68		PG36	20~26 22~32	DLX-36-MTS DLX-36-MS	T 3 609 3601 11-000 T 3 609 3601 01-000
		PG42	25~31 32~38	DLX-42-MTS DLX-42-MS	T 3 609 4201 11-000 T 3 609 4201 01-000
		PG48	29~35 37~44	DLX-48-MTS DLX-48-MS	T 3 609 4801 11-000 T 3 609 4801 01-000
	M12 X 1.5		2~5 3~6.5	DLX-12-MT DLX-12-M	T 3 609 1201 12-000 T 3 609 1201 02-000
	M16 X 1.5		2~6 4~8 5~10	DLX-16-MT DLX-16-M DLX-16-MB	T 3 609 1601 12-000 T 3 609 1601 02-000 T 3 609 1601 22-000
	M20 X 1.5		5-9 6-12 10-14	DLX-20-MT DLX-20-M DLX-20-MB	T 3 609 2001 12-000 T 3 609 2001 02-000 T 3 609 2001 22-000
	M25 X 1.5		9~16 13~18	DLX-25-MT DLX-25-M	T 3 609 2501 12-000 T 3 609 2501 02-000
	M32 X 1.5		13~20 18~25	DLX-32-MT DLX-32-M	T 3 609 3201 12-000 T 3 609 3201 02-000
	M40 X 1.5		20~26 22~32	DLX-40-MT DLX-40-M	T 3 609 4001 12-000 T 3 609 4001 02-000
	M50 X 1.5		25~31 32~38	DLX-50-MT DLX-50-M	T 3 609 5001 12-000 T 3 609 5001 02-000
	M63 X 1.5		29~35 37~44	DLX-63-MT DLX-63-M	T 3 609 6301 12-000 T 3 609 6301 02-000



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Cable glands, polyamide					
		PG7	2~5 3~6.5	DLX-7-PT DLX-7-P	T 3 209 0701 61-000 T 3 209 0701 60-000
		PG9	2~6 4~8	DLX-9-PT DLX-9-P	T 3 209 0901 61-000 T 3 209 0901 60-000
		PG11	3~7 5~10	DLX-11-PT DLX-11-P	T 3 209 1101 61-000 T 3 209 1101 60-000
		PG13.5	5~9 6~12	DLX-13-PT DLX-13-P	T 3 209 1301 61-000 T 3 209 1301 60-000
		PG16	7~12 10~14	DLX-16-PT DLX-16-P	T 3 209 1601 61-000 T 3 209 1601 60-000
Material: Polyamide		PG21	9~16 13~18	DLX-21-PT DLX-21-P	T 3 209 2101 61-000 T 3 209 2101 60-000
Press seal material: PA Seal material: NBR		PG29	13~20 18~25	DLX-29-PT DLX-29-P	T 3 209 2901 61-000 T 3 209 2901 60-000
Temperature range: -40°C ~ +100°C Protection: IP68		PG36	20~26 22~32	DLX-36-PT DLX-36-P	T 3 209 3601 61-000 T 3 209 3601 60-000
		PG42	25~31 32~38	DLX-42-PT DLX-42-P	T 3 209 4201 61-000 T 3 209 4201 60-000
		PG48	29~35 37~44	DLX-48-PT DLX-48-P	T 3 209 4801 61-000 T 3 209 4801 60-000
	M12 X 1.5		2~5 3~6.5	DLX-12-PMT DLX-12-PM	T 3 209 1201 12-000 T 3 209 1201 02-000
	M16 X 1.5		2~6 4~8	DLX-16-PMT DLX-16-PM	T 3 209 1601 12-000 T 3 209 1601 02-000
	M20 X 1.5		5~9 6~12	DLX-20-PMT DLX-20-PM	T 3 209 2001 12-000 T 3 209 2001 02-000
	M25 X 1.5		9~16 13~18	DLX-25-PMT DLX-25-PM	T 3 209 2501 12-000 T 3 209 2501 02-000
	M32 X 1.5		13~20 18~25	DLX-32-PMT DLX-32-PM	T 3 209 3201 12-000 T 3 209 3201 02-000
	M40 X 1.5		20~26 22~32	DLX-40-PMT DLX-40-PM	T 3 209 4001 12-000 T 3 209 4001 02-000
	M50 X 1.5		25~31 32~38	DLX-50-PMT DLX-50-PM	T 3 209 5001 12-000 T 3 209 5001 02-000
	M63 X 1.5		29~35 37~44	DLX-63-PMT DLX-63-PM	T 3 209 6301 12-000 T 3 209 6301 02-000



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Multiple sealing insert metal cable gla	and		1		
Material: Nickel plated brass Seal material: TPE/EPDM Temperature range: -40°C ~ + 100°C Protection: IP65 Seal material colors: White	M16 X 1.5 M20 X 1.5	PG13.5 PG16 PG16 PG21 PG21 PG21 PG29 PG29 PG29 PG36 PG36 PG36 PG42 PG42 PG42 PG48	2 x 3 3 x 4 2 x 5 4 x 6.5 3 x 7 2 x 6 2 x 8 6 x 6.5 4 x 9 3 x 9 5 x 9 6 x 8 4 x 12 5 x 10 6 x 12 3 x 18 2 x 3 3 x 4	DLX-13-KMS DLX-16-KMS DLX-16-KMS DLX-21-1KMS DLX-21-2KMS DLX-21-3KMS DLX-21-4KMS DLX-29-1KMS DLX-29-3KMS DLX-29-3KMS DLX-36-1KMS DLX-36-2KMS DLX-42-1KMS DLX-42-1KMS DLX-42-1KMS DLX-48-1KMS DLX-48-1KMS DLX-48-1KMS DLX-48-2KMS	T 3 729 1301 01-000 T 3 729 1601 01-000 T 3 729 1602 01-000 T 3 729 2101 01-000 T 3 729 2102 01-000 T 3 729 2103 01-000 T 3 729 2104 01-000 T 3 729 2901 01-000 T 3 729 2902 01-000 T 3 729 2903 01-000 T 3 729 3601 01-000 T 3 729 4201 01-000 T 3 729 4201 01-000 T 3 729 4202 01-000 T 3 729 4801 01-000 T 3 729 4802 01-000 T 3 729 4802 01-000 T 3 729 1601 02-000 T 3 729 2001 02-000
(other colors need consulting)	M20 X 1.5 M25 X 1.5 M25 X 1.5 M25 X 1.5 M25 X 1.5 M32 X 1.5 M32 X 1.5 M32 X 1.5 M40 X 1.5 M40 X 1.5 M50 X 1.5 M50 X 1.5 M63 X 1.5		2 x 5 4 x 6.5 3 x 7 2 x 6 2 x 8 6 x 6.5 4 x 9 3 x 9 5 x 9 6 x 8 4 x 12 5 x 10 6 x 12 3 x 18	DLX-20-KM DLX-25-1KM DLX-25-2KM DLX-25-3KM DLX-32-1KM DLX-32-1KM DLX-32-3KM DLX-40-1KM DLX-40-1KM DLX-50-1KM DLX-50-2KM DLX-63-1KM	T 3 729 2002 02-000 T 3 729 2501 02-000 T 3 729 2502 02-000 T 3 729 2503 02-000 T 3 729 2504 02-000 T 3 729 3201 02-000 T 3 729 3202 02-000 T 3 729 3203 02-000 T 3 729 4001 02-000 T 3 729 4002 02-000 T 3 729 5001 02-000 T 3 729 6301 02-000 T 3 729 6301 02-000 T 3 729 6301 02-000
Multiple sealing insert nylon cable gla	and		1	1	1
Material: PA Seal material: EPDM Temperature range: -40°C ~ + 100°C Protection: IP65 Seal material colors: White (other colors need consulting)	M16 X 1.5 M20 X 1.5 M20 X 1.5 M25 X 1.5 M25 X 1.5 M25 X 1.5 M25 X 1.5 M32 X 1.5 M32 X 1.5 M30 X 1.5 M40 X 1.5 M40 X 1.5 M50 X 1.5 M50 X 1.5 M63 X 1.5 M63 X 1.5	PG13.5 PG16 PG16 PG21 PG21 PG21 PG29 PG29 PG29 PG36 PG36 PG42 PG42 PG42 PG48 PG48	2 x 3 3 x 4 2 x 5 4 x 6.5 3 x 7 2 x 6 2 x 8 6 x 6.5 4 x 9 3 x 9 5 x 9 6 x 8 4 x 12 5 x 10 6 x 12 3 x 18 2 x 3 3 x 4 2 x 5 4 x 6.5 4 x 6.5 4 x 9 3 x 9 6 x 8 6 x 6.5 4 x 12 5 x 10 6 x 12 3 x 18 2 x 3 3 x 4 2 x 5 4 x 6.5 4 x 9 3 x 9 5 x 9 6 x 8 4 x 12 5 x 10 6 x 12 3 x 18 2 x 3 3 x 4 2 x 5 4 x 6.5 4 x 9 3 x 9 5 x 9 6 x 8 6 x 6.5 4 x 12 5 x 10 6 x 12 3 x 18 2 x 3 3 x 4 2 x 5 4 x 6.5 3 x 7 2 x 8 6 x 6.5 4 x 9 3 x 9 5 x 9 6 x 8 6 x 6.5 4 x 9 3 x 9 5 x 9 6 x 8 6 x 6.5 4 x 9 3 x 9 6 x 8 6 x 6.5 4 x 9 3 x 9 5 x 9 6 x 8 6 x 6.5 4 x 9 3 x 9 6 x 12 3 x 18 2 x 8 6 x 6.5 4 x 9 3 x 9 5 x 9 6 x 12 3 x 18 2 x 8 6 x 6.5 4 x 9 3 x 9 5 x 9 6 x 12 3 x 10 6 x 12 3 x 18	DLX-13-KPMS DLX-16-KPMS DLX-16-KPMS DLX-21-1KPMS DLX-21-2KPMS DLX-21-3KPMS DLX-29-1KPMS DLX-29-1KPMS DLX-29-3KPMS DLX-29-3KPMS DLX-36-1KPMS DLX-42-1KPMS DLX-42-1KPMS DLX-42-1KPMS DLX-42-1KPMS DLX-45-1KPMS DLX-48-1KPMS DLX-48-1KPMS DLX-25-KPM DLX-25-1KPM DLX-25-3KPM DLX-25-3KPM DLX-25-3KPM DLX-32-3KPM DLX-32-3KPM DLX-40-1KPM DLX-40-1KPM DLX-40-1KPM DLX-50-1KPM DLX-50-1KPM DLX-50-1KPM DLX-63-1KPM DLX-63-2KPM	T 3 229 1301 01-000 T 3 229 1601 01-000 T 3 229 2101 01-000 T 3 229 2102 01-000 T 3 229 2103 01-000 T 3 229 2103 01-000 T 3 229 2103 01-000 T 3 229 2901 01-000 T 3 229 2901 01-000 T 3 229 2902 01-000 T 3 229 3601 01-000 T 3 229 3602 01-000 T 3 229 4201 01-000 T 3 229 4201 01-000 T 3 229 4201 01-000 T 3 229 4801 01-000 T 3 229 4801 01-000 T 3 229 2501 02-000 T 3 229 2501 02-000 T 3 229 2501 02-000 T 3 229 2504 02-000 T 3 229 3203 02-000 T 3 229 5001 02-000 T 3 229 5002 02-000 T 3 229 5002 02-000 T 3 229 5001 02-000 T 3 229 5002 02-000 T 3 229 5002 02-000 T 3 229 6301 02-000



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Special sealing insert gland					
		PG9	2~3.5 3.5~6 6~9	DLX-9-MSET DLX-9-MSEZ DLX-9-MSE	T 3 709 0901 11-000 T 3 709 0901 21-000 T 3 709 0901 01-000
		PG11	6~8.5 8.5~11 11 ~13.5	DLX-11-MSET DLX-11-MSEZ DLX-11-MSE	T 3 709 1101 11-000 T 3 709 1101 21-000 T 3 709 1101 01-000
		PG13.5	8.5~11 11~13.5 13.5~15	DLX-13-MSET DLX-13-MSEZ DLX-13-MSE	T 3 709 1301 11-000 T 3 709 1301 21-000 T 3 709 1301 01-000
		PG16	9~12 12~14 14~16	DLX-16-MSET DLX-16-MSEZ DLX-16-MSE	T 3 709 1601 11-000 T 3 709 1601 21-000 T 3 709 1601 01-000
Sealing with different colors		PG21	13.5~16 16~17.5 17.5~19	DLX-21-MSET DLX-21-MSEZ DLX-21-MSE	T 3 709 2101 11-000 T 3 709 2101 21-000 T 3 709 2101 01-000
		PG29	17.5~21 21~22.5 22.5~25	DLX-29-MSET DLX-29-MSEZ DLX-29-MSE	T 3 709 2901 11-000 T 3 709 2901 21-000 T 3 709 2901 01-000
		PG36	20~24 24~28 28~32	DLX-36-MSET DLX-36-MSEZ DLX-36-MSE	T 3 709 3601 11-000 T 3 709 3601 21-000 T 3 709 3601 01-000
Material: Nickel plated brass Seal material: TPE/EPDM	M16 X 1.5		2~3.5 3.5~6 6~9	DLX-16-MET DLX-16-MEZ DLX-16-ME	T 3 709 1601 12-000 T 3 709 1601 22-000 T 3 709 1601 02-000
Temperature range: -40°C ~ +100°C Protection: IP65 Seal material colors: Black	M20 X 1.5		8.5~11 11~13.5 13.5~15	DLX-20-MET DLX-20-MEZ DLX-20-ME	T 3 709 2001 12-000 T 3 709 2001 22-000 T 3 709 2001 02-000
(other colors need consulting)	M25 X 1.5		13.5~16 16~17.5 17.5~19 18~22	DLX-25-MET DLX-25-MEZ DLX-25-ME DLX-25-MEA	T 3 709 2501 12-000 T 3 709 2501 22-000 T 3 709 2501 02-000 T 3 709 2501 32-000
	M32 X 1.5		17.5~21 21~22.5 22.5~25	DLX-32-MET DLX-32-MEZ DLX-32-ME	T 3 709 3201 12-000 T 3 709 3201 22-000 T 3 709 3201 02-000
	M40 X 1.5		20~24 24~28 28~32	DLX-40-MET DLX-40-MEZ DLX-40-ME	T 3 709 4001 12-000 T 3 709 4001 22-000 T 3 709 4001 02-000
EMC cable glands					
		PG9 PG11 PG13.5 PG16 PG21 PG29 PG36 PG42 PG48	4-8 5-10 6-12 10-14 13-18 18-25 22-32 32-38 37-44	DLX-9-MSC DLX-11-MSC DLX-13-MSC DLX-16-MSC DLX-21-MSC DLX-29-MSC DLX-36-MSC DLX-42-MSC DLX-42-MSC DLX-48-MSC	T 3 707 0901 01-000 T 3 707 1101 01-000 T 3 707 1301 01-000 T 3 707 1601 01-000 T 3 707 2101 01-000 T 3 707 2901 01-000 T 3 707 3601 01-000 T 3 707 4201 01-000 T 3 707 4801 01-000
	M16 X 1.5		2~6 4~8	DLX-16-MTC DLX-16-MC	T 3 707 1601 13-000 T 3 707 1601 03-000
Material: Nickel plated brass Press seal material: PA	M20 X 1.5		5~9 6~12	DLX-20-MTC DLX-20-MC	T 3 707 2001 13-000 T 3 707 2001 03-000
Seal material: EPDM	M25 X 1.5		9~16 13~18	DLX-25-MTC DLX-25-MC	T 3 707 2501 13-000 T 3 707 2501 03-000
Temperature range: -40°C ~ +100°C Protection: IP68	M32 X 1.5		13~20 18~25	DLX-32-MTC DLX-32-MC	T 3 707 3201 13-000 T 3 707 3201 03-000
	M40 X 1.5		20~26 22~32	DLX-40-MTC DLX-40-MC	T 3 707 4001 13-000 T 3 707 4001 03-000
	M50 X 1.5		25~31 32~38	DLX-50-MTC DLX-50-MC	T 3 707 5001 13-000 T 3 707 5001 03-000
	M63 X 1.5		29~35 37~44	DLX-63-MTC DLX-63-MC	T 3 707 6301 13-000 T 3 707 6301 03-000



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Metal glands with multiple seal	<u>'</u>				,
		PG9	5~10	DSM-9	T 3 201 0901 01-000
		PG11	7~12	DSM-11	T 3 201 1101 01-000
		PG13.5	7~12	DSM-13	T 3 201 1301 01-000
		PG16	7~15	DSM-16	T 3 201 1601 01-000
		PG21	10~19	DSM-21	T 3 201 2101 01-000
		PG29	18~27	DSM-29	T 3 201 2901 01-000
		PG36	24~32	DSM-36	T 3 201 3601 01-000
Materials Nichel aleted by a		PG42	30~39	DSM-42	T 3 201 4201 01-000
Material: Nickel plated brass		PG48	36~45	DSM-48	T 3 201 4801 01-000
Seal material: NBR	M12		5~10	DSM-12-M	T 3 201 1201 02-000
Temperature range: -40°C ~ +100°C	M16		6.5~10	DSM-16-M	T 3 201 1601 02-000
Protection: IP65	M20		8.5~13.5	DSM-20-M	T 3 201 2001 02-000
	M25		13~20	DSM-25-M	T 3 201 2501 02-000
	M32		19~28	DSM-32-M	T 3 201 3201 02-000
	M40		24~34	DSM-40-M	T 3 201 4001 02-000
	M50		34~40	DSM-50-M	T 3 201 5001 02-000
	M63		39~46	DSM-63-M	T 3 201 6301 02-000
Metal glands with multiple seal	1	'			'
		PG9	8~10	DSM-9-S	T 3 211 0901 01-000
		PG11	10~12	DSM-11-S	T 3 211 1101 01-000
		PG13.5	12~14	DSM-13-S	T 3 211 1301 01-000
000		PG16	14~16	DSM-16-S	T 3 211 1601 01-000
		PG21	17~19	DSM-21-S	T 3 211 2101 01-000
		PG29	23~25	DSM-29-S	T 3 211 2901 01-000
		PG36	33~35	DSM-36-S	T 3 211 3601 01-000
Material: Nickel plated brass		PG42	39~41	DSM-42-S	T 3 211 4201 01-000
·		PG48	45~47	DSM-48-S	T 3 211 4801 01-000
Seal material: NBR	M12		5~7	DSM-12-SM	T 3 211 1201 02-000
Temperature range: -40°C ~ +100°C	M16		8~10	DSM-16-SM	T 3 211 1601 02-000
Protection: IP54	M20		10~12	DSM-20-SM	T 3 211 2001 02-000
	M25		15~17	DSM-25-SM	T 3 211 2501 02-000
	M32		24~26	DSM-32-SM	T 3 211 3201 02-000
	M40		28~30	DSM-40-SM	T 3 211 4001 02-000
	M50		39~41	DSM-50-SM	T 3 211 5001 02-000
	M63		45~47	DSM-63-SM	T 3 211 6301 02-000



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Metal glands with multiple seal					
		PG9	5~10	DCSM-9	T 3 101 0901 01-000
		PG11	7~12	DCSM-11	T 3 101 1101 01-000
		PG13.5	7~12	DCSM-13	T 3 101 1301 01-00
0000		PG16	7~15	DCSM-16	T 3 101 1601 01-00
		PG21	10~19	DCSM-21	T 3 101 2101 01-00
		PG29	18~27	DCSM-29	T 3 101 2901 01-00
		PG36	24~32	DCSM-36	T 3 101 3601 01-00
Material: Nickel plated brass		PG42	30~39	DCSM-42	T 3 101 4201 01-00
Seal material: NBR		PG48	36~45	DCSM-48	T 3 101 4801 01-00
Temperature range: -40°C ~ +100°C	M12		5~10	DCSM-12-M	T 3 101 1201 02-000
Protection: IP65	M16		6.5~10	DCSM-16-M	T 3 101 1601 02-000
	M20		8.5~13.5	DCSM-20-M	T 3 101 2001 02-00
	M25		13~20	DCSM-25-M	T 3 101 2501 02-00
	M32		19~28	DCSM-32-M	T 3 101 3201 02-00
	M40		24~34	DCSM-40-M	T 3 101 4001 02-00
	M50		34~40	DCSM-50-M	T 3 101 5001 02-00
	M63		39~46	DCSM-63-M	T 3 101 6301 02-00
Metal glands with multiple seal					
		PG9	8~10	DCSM-9-S	T 3 111 0901 01-000
		PG11	10~12	DCSM-11-S	T 3 111 1101 01-000
		PG13.5	12~14	DCSM-13-S	T 3 111 1301 01-000
		PG16	14~16	DCSM-16-S	T 3 111 1601 01-000
		PG21	17~19	DCSM-21-S	T 3 111 2101 01-000
0000		PG29	23~25	DCSM-29-S	T 3 111 2901 01-000
		PG36	33~35	DCSM-36-S	T 3 111 3601 01-000
Mahariah Nishal alatah lamas		PG42	39~41	DCSM-42-S	T 3 111 4201 01-000
Material: Nickel plated brass		PG48	45~47	DCSM-48-S	T 3 111 4801 01-000
Seal material: NBR	M12		5~7	DCSM-12-SM	T 3 111 1201 02-000
Temperature range: -40°C ~ +100°C	M16		8~10	DCSM-16-SM	T 3 111 1601 02-00
Protection: IP54	M20		10~12	DCSM-20-SM	T 3 111 2001 02-00
	M25		15~17	DCSM-25-SM	T 3 111 2501 02-00
	M32		24~26	DCSM-32-SM	T 3 111 3201 02-00
	M40		28~30	DCSM-40-SM	T 3 111 4001 02-00
	M50		39~41	DCSM-50-SM	T 3 111 5001 02-000
	M63		45~47	DCSM-63-SM	T 3 111 6301 02-000



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Multiple seal					
		PG9	5~10	MSL-9	T 3 100 0900 01-000
		PG11	7~12	MSL-11	T 3 100 1101 01-000
		PG13.5	7~12	MSL-13	T 3 100 1300 01-000
		PG16	7~15	MSL-16	T 3 100 1600 01-000
		PG21	10~19	MSL-21	T 3 100 2100 01-000
		PG29	18~27	MSL-29	T 3 100 2900 01-000
		PG36	24~32	MSL-36	T 3 100 3600 01-000
Seal material: NBR		PG42	30~39	MSL-42	T 3 100 4200 01-000
Temperature range: -40°C ~ +100°C		PG48	36~45	MSL-48	T 3 100 4800 01-000
Protection: IP65	M12		5~10	MSL-12-M	T 3 100 1200 02-000
	M16		6.5~10	MSL-16-M	T 3 100 1600 02-000
	M20		8.5~13.5	MSL-20-M	T 3 100 2000 02-000
	M25		13~20	MSL-25-M	T 3 100 2500 02-000
	M32		19~28	MSL-32-M	T 3 100 3200 02-000
	M40		24~34	MSL-40-M	T 3 100 4000 02-000
	M50		34~40	MSL-50-M	T 3 100 5000 02-000
	M63		39~46	MSL-63-M	T 3 100 6300 02-000
Normal seal					
		PG9	8~10	SGL-9	T 0 910 0041 09-000
		PG11	10~12	SGL-11	T 0 910 0041 11-000
		PG13.5	12~14	SGL-13	T 0 910 0041 13-000
		PG16	14~16	SGL-16	T 0 910 0041 16-000
		PG21	17~19	SGL-21	T 0 910 0041 21-000
		PG29	23~25	SGL-29	T 0 910 0041 29-000
		PG36	33~35	SGL-36	T 0 910 0041 36-000
Seal material: NBR		PG42	39~41	SGL-42	T 0 910 0041 42-000
Temperature range: -40°C ~ +100°C		PG48	45~47	SGL-48	T 0 910 0041 48-000
Protection: IP54	M12		5~7	SGL-12-M	T 3 300 1200 02-000
	M16		8~10	SGL-16-M	T 3 300 1600 02-000
	M20		10~12	SGL-20-M	T 3 300 2000 02-000
	M25		15~17	SGL-25-M	T 3 300 2500 02-000
	M32		24~26	SGL-32-M	T 3 300 3201 02-000
	M40		28~30	SGL-40-M	T 3 300 4000 02-000
	M50		39~41	SGL-50-M	T 3 300 5000 02-000
	M63		45~47	SGL-63-M	T 3 300 6300 02-000



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Metal clamp glands with multiple sea	al				
-140		PG9	6.5~10	ZSM-9	T 3 135 0901 01-00
		PG11	7.5~12	ZSM-11	T 3 135 1101 01-00
		PG13.5	8.5~13.5	ZSM-13	T 3 135 1301 01-00
		PG16	10.5~16	ZSM-16	T 3 135 1601 01-00
		PG21	13~20	ZSM-21	T 3 135 2101 01-00
		PG29	19~28	ZSM-29	T 3 135 2901 01-00
		PG36	24~34	ZSM-36	T 3 135 3601 01-00
		PG42	34~40	ZSM-42	T 3 135 4201 01-00
		PG48	39~46	ZSM-48	T 3 135 4801 01-00
Material: Nickel plated brass	M16		6.5~10	ZSM-16-M	T 3 135 1601 21-00
Seal material: NBR	M20		7.5~12	ZSM-20-M	T 3 135 2001 21-00
Temperature range: -40°C ~ +100°C	M25		13~20	ZSM-25-M	T 3 135 2501 21-00
Protection: IP65	M32		19~28	ZSM-32-M	T 3 135 3201 21-00
	M40		24~34	ZSM-40-M	T 3 135 4001 21-00
	M50		34~40	ZSM-50-M	T 3 135 5001 21-00
	M63		39~46	ZSM-63-M	T 3 135 6301 21-00
Metal clamp glands with normal seal		'			'
		PG7	6~8	ZSM-7-S	T 3 115 0701 01-00
		PG9	8~10	ZSM-9-S	T 3 115 0901 01-00
TO PE		PG11	10~12	ZSM-11-S	T 3 115 1101 01-00
		PG13.5	12~14	ZSM-13-S	T 3 115 1301 01-00
		PG16	14~16	ZSM-16-S	T 3 115 1601 01-00
Jan San San San San San San San San San S		PG21	17~19	ZSM-21-S	T 3 115 2101 01-00
		PG29	26~28	ZSM-29-S	T 3 115 2901 01-00
		PG36	33~35	ZSM-36-S	T 3 115 3601 01-00
		PG42	39~41	ZSM-42-S	T 3 115 4201 01-00
Material: Nickel plated brass		PG48	43~45	ZSM-48-S	T 3 115 4801 01-00
Seal material: NBR	M12		6~8	ZSM-12-SM	T 3 115 1201 21-00
Temperature range: -40°C ~ +100°C	M16		8~12	ZSM-16-SM	T 3 115 1601 21-00
Protection: IP54	M20		10~12	ZSM-20-SM	T 3 115 2001 21-00
	M25		12~14	ZSM-25-SM	T 3 115 2501 21-00
	M32		17~19	ZSM-32-SM	T 3 115 3201 21-00
	M40		25~27	ZSM-40-SM	T 3 115 4001 21-00
	M50		39~41	ZSM-50-SM	T 3 115 5001 21-00
	M63		43~45	ZSM-63-SM	T 3 115 6301 21-00



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Metal clamp glands					
		PG7	5.5~8	KSM-7-MS	T 3 105 0701 01-000
		PG9	6.5~10	KSM-9-MS	T 3 105 0901 01-000
		PG11	7.5~12	KSM-11-MS	T 3 105 1101 01-000
300		PG13.5	8.5~14	KSM-13-MS	T 3 105 1301 01-000
1		PG16	9.5~16	KSM-16-MS	T 3 105 1601 01-000
dis.		PG21	12~21	KSM-21-MS	T 3 105 2101 01-000
		PG29	19~30	KSM-29-MS	T 3 105 2901 01-000
		PG36	25~37	KSM-36-MS	T 3 105 3601 01-000
		PG42	31~43	KSM-42-MS	T 3 105 4201 01-000
		PG48	35~48	KSM-48-MS	T 3 105 4801 01-000
Material: Nickel plated brass	M12	F 040	5~7.5	KSM-12-M	T 3 105 1201 21-000
· ·	M16		7~10	KSM-16-M	T 3 105 1601 21-000
Temperature range: -40°C ~ +100°C	M20		10~14	KSM-20-M	T 3 105 2001 21-000
	M25				
			12~21.5	KSM-25-M	T 3 105 2501 21-000
	M32		16~27	KSM-32-M	T 3 105 3201 21-000
	M40		23~33	KSM-40-M	T 3 105 4001 21-000
	M50		25~38.5	KSM-50-M	T 3 105 5001 21-000
	M63		39~46	KSM-63-M	T 3 105 6301 21-000
Metal flexible tube fittings				T	
		PG11	Ø6	NTC-11-MS	T 3 510 1101 14-000
		PG13.5	Ø8	NTC-13-MTS	T 3 510 1301 24-000
		PG13.5	Ø10	NTC-13-MS	T 3 510 1301 14-000
		PG13.5	Ø12	NTC-13-MES	T 3 510 1301 34-000
		PG16	Ø10	NTC-16-MTS	T 3 510 1601 24-000
		PG16	Ø12	NTC-16-MS	T 3 510 1601 14-000
		PG16	Ø16	NTC-16-MES	T 3 510 1601 34-000
		PG21	Ø16	NTC-21-MTS	T 3 510 2101 24-000
		PG21	Ø20	NTC-21-MS	T 3 510 2101 14-000
		PG29	Ø20	NTC-29-MTS	T 3 510 2901 24-000
Material: Zinc alloy		PG29	Ø25	NTC-29-MS	T 3 510 2901 14-000
Seal material: PA		PG36	Ø32	NTC-36-MS	T 3 510 3601 14-000
Temperature range: -40°C ~ +100°C		PG42	Ø38	NTC-42-MS	T 3 510 4201 14-000
		PG48	Ø51	NTC-48-MS	T 3 510 4801 14-000
Protection: IP40-IP65	M12 X 1.5		Ø6	NTC-12-M	T 3 510 1201 24-000
	M16 X 1.5		Ø8	NTC-16-MT	T 3 510 1601 12-000
	M16 X 1.5		Ø10	NTC-16-M	T 3 510 1601 02-000
	M16 X 1.5		Ø12	NTC-16-ME	T 3 510 1601 22-000
	M20 X 1.5		Ø10	NTC-20-MT	T 3 510 2001 12-000
	M20 X 1.5		Ø12	NTC-20-M	T 3 510 2001 02-000
	M20 X 1.5		Ø16	NTC-20-MT	T 3 510 2001 22-000
	M25 X 1.5		Ø16	NTC-25-MT	T 3 510 2501 12-000
	M25 X 1.5		Ø20	NTC-25-M	T 3 510 2501 12 000
	M32 X 1.5		Ø20	NTG-32-MT	T 3 510 3201 12-000
	M32 X 1.5		Ø25	NTC-32-M	T 3 510 3201 12-000
	M40 X 1.5		Ø32	NTC-40-M	T 3 510 4001 02-000
	M50 X 1.5				T 3 510 4001 02-000
	M63 X 1.5		Ø38 Ø51	NTC-50-M	T 3 510 6301 02-000
	1.102 V T'2		N21	NTC-63-M	1 3 310 0301 02-000



	Metr.	PG	Clamp range (mm)	Туре	Part Number
Nylon flexible tube fittings					
		PG7	AD 10.0	NTC-7-PMS	T 3 511 0707 01-000
		PG9	AD 13.0	NTC-9-PMS	T 3 511 0910 01-000
		PG11	AD 15.8	NTC-11-PMS	T 3 511 1112 01-000
		PG13.5	AD 18.5	NTC-13-PMES	T 3 511 1314 01-000
		PG13.5	AD 21.2	NTC-13-PMZS	T 3 511 1314 01-001
		PG16	AD 21.2	NTC-16-PMS	T 3 511 1617 01-000
Alexandra (PG21	AD 28.5	NTC-21-PMS	T 3 511 2123 01-000
		PG29	AD 34.5	NTC-29-PMS	T 3 511 2929 01-000
		PG36	AD 42.5	NTC-36-PMS	T 3 511 3636 01-000
		PG42	AD 54.5	NTC-42-PMS	T 3 511 4243 01-000
		PG48	AD 54.5	NTC-48-PMS	T 3 511 4848 01-000
Material: PA	M10 X 1.5		AD 10.0	NTC-10-PM	T 3 511 1006 02-000
Temperature range: -40°C ~ +100°C	M12 X 1.5		AD 10.0	NTC-12-PMT	T 3 511 1207 02-000
Protection: IP65	M12 X 1.5		AD 13.0	NTC-12-PM	T 3 511 1207 02-001
	M16 X 1.5		AD 13.0	NTC-16-PMT	T 3 511 1610 02-000
	M16 X 1.5		AD 15.8	NTC-16-PM	T 3 511 1612 02-000
	M20 X 1.5		AD 18.5	NTC-20-PMT	T 3 511 2014 02-000
	M20 X 1.5		AD 21.2	NTC-20-PM	T 3 511 2017 02-000
	M25 X 1.5		AD 21.2	NTC-25-PMT	T 3 511 2517 02-000
	M25 X 1.5		AD 25.8	NTC-25-PM	T 3 511 2520 02-000
	M25 X 1.5		AD 28.5	NTC-25-PME	T 3 511 2523 02-000
	M32 X 1.5		AD 28.5	NTC-32-PMT	T 3 511 3223 02-000
	M32 X 1.5		AD 31.5	NTC-32-PM	T 3 511 3226 02-000
	M32 X 1.5		AD 34.5	NTC-32-PME	T 3 511 3229 02-000
	M40 X 1.5		AD 34.5	NTC-40-PMT	T 3 511 4028 02-000
	M40 X 1.5		AD 42.5	NTC-40-PM	T 3 511 4036 02-000
	M50 X 1.5		AD 42.5	NTC-50-PMT	T 3 511 5035 02-000
	M50 X 1.5		AD 54.5	NTC-50-PM	T 3 511 5048 02-000
	M63 X 1.5		AD 54.5	NTC-63-PM	T 3 511 6348 02-000
 Nylon blind plugs	14103 X 1.3		AD 34.3	N1C-03-PM	1 3 311 0348 02-000
Typen billia plags		PG9		DN-9-P	T 3 169 0901 01-000
		PG9			T 3 169 1101 01-000
				DN-11-P	
		PG13.5		DN-13-P	T 3 169 1301 01-000
		PG16		DN-16-P	T 3 169 1601 01-000
		PG21		DN-21-P	T 3 169 2101 01-000
		PG29		DN-29-P	T 3 169 2901 01-000
		PG36		DN-36-P	T 3 169 3601 01-000
		PG42		DN-42-P	T 3 169 4201 01-000
	N410	PG48	- 7 -	DN-48-P	T 3 169 4801 01-000
Material: PA	M12		5-7.5	DN-12-PM	T 3 169 1201 21-000
Temperature range: -20°C ~ +70°C	M16		7-10	DN-16-PM	T 3 169 1601 11-000
Protection: IP65	M20		10-14	DN-20-PM	T 3 169 2001 11-000
FIOLECTION. IFUS	M25		12-21.5	DN-25-PM	T 3 169 2501 11-000
	M32		16-27	DN-32-PM	T 3 169 3201 11-000
	M40		23-33	DN-40-PM	T 3 169 4001 11-000
	M50		25-38.5	DN-50-PM	T 3 169 5001 11-000
	M63		39-46	DN-63-PM	T 3 169 6301 11-000



	Metr.	PG	Туре	Part Number
Metal blind plugs				
		PG7	BLIND-7-MS	T 3 165 0701 01-000
		PG9	BLIND-9-MS	T 3 165 0901 01-000
		PG11	BLIND-11-MS	T 3 165 1101 01-000
		PG13.5	BLIND-13-MS	T 3 165 1301 01-000
		PG16	BLIND-16-MS	T 3 165 1601 01-000
		PG21	BLIND-21-MS	T 3 165 2101 01-000
		PG29	BLIND-29-MS	T 3 165 2901 01-000
Material: Nickel plated brass		PG36	BLIND-36-MS	T 3 165 3601 01-000
Temperature range: -40°C ~ +100°C		PG42	BLIND-42-MS	T 3 165 4201 01-000
		PG48	BLIND-48-MS	T 3 165 4801 01-000
Protection: IP65	M12 X 1.5		BLIND-12-M	T 3 165 1201 11-000
	M16 X 1.5		BLIND-16-M	T 3 165 1601 11-000
	M20 X 1.5		BLIND-20-M	T 3 165 2001 11-000
	M25 X 1.5		BLIND-25-M	T 3 165 2501 11-000
	M32 X 1.5		BLIND-32-M	T 3 165 3201 11-000
	M40 X 1.5		BLIND-40-M	T 3 165 4001 11-000
	M50 X 1.5		BLIND-50-M	T 3 165 5001 11-000
	M63 X 1.5		BLIND-63-M	T 3 165 6301 11-000
Nylon blind plugs	<u>'</u>			1
		PG7	BLIND-7-P	T 3 166 0701 01-000
		PG9	BLIND-9-P	T 3 166 0901 01-000
		PG11	BLIND-11-P	T 3 166 1101 01-000
		PG13.5	BLIND-13-P	T 3 166 1301 01-000
		PG16	BLIND-16-P	T 3 166 1601 01-000
		PG21	BLIND-21-P	T 3 166 2101 01-000
		PG29	BLIND-29-P	T 3 166 2901 01-000
Material: PA		PG36	BLIND-36-P	T 3 166 3601 01-000
Temperature range: -40°C ~ +100°C		PG42	BLIND-42-P	T 3 166 4201 01-000
Protection: IP65		PG48	BLIND-48-P	T 3 166 4801 01-000
	M12 X 1.5		BLIND-12-PM	T 3 166 1201 11-000
	M16 X 1.5		BLIND-16-PM	T 3 166 1601 11-000
	M20 X 1.5		BLIND-20-PM	T 3 166 2001 11-000
	M25 X 1.5		BLIND-25-PM	T 3 166 2501 11-000
	M32 X 1.5		BLIND-32-PM	T 3 166 3201 11-000
	M40 X 1.5		BLIND-40-PM	T 3 166 4001 11-000
	M50 X 1.5		BLIND-50-PM	T 3 166 5001 11-000
	M63 X 1.5		BLIND-63-PM	T 3 166 6301 11-000



	Metr.	PG	Туре	Part Number
Metal blind plugs	1		,	
and the same of		PG7 PG9	BLIND-7-HMS BLIND-9-HMS	T 3 165 0702 01-000
		PG11	BLIND-11-HMS	T 3 165 1102 01-000
		PG13.5 PG16	BLIND-13-HMS BLIND-16-HMS	T 3 165 1302 01-000
		PG16 PG21	BLIND-21-HMS	T 3 165 2102 01-000
		PG29	BLIND-29-HMS	T 3 165 2902 01-000
Material: Nickel plated brass		PG36 PG42	BLIND-36-HMS BLIND-42-HMS	T 3 165 3602 01-000
Temperature range: -40°C ~ +100°C Protection: IP65		PG48	BLIND-48-HMS	T 3 165 4802 01-000
Protection: IP05	M12 X 1.5		BLIND-12-HM	T 3 165 1202 11-000
	M16 X 1.5		BLIND-16-HM BLIND-20-HM	T 3 165 1602 11-000
	M25 X 1.5		BLIND-25-HM	T 3 165 2502 11-000
	M32 X 1.5		BLIND-32-HM	T 3 165 3202 11-000
	M40 X 1.5		BLIND-40-HM	T 3 165 4002 11-000
	M50 X 1.5 M63 X 1.5		BLIND-50-HM BLIND-63-HM	T 3 165 5002 11-000



	Metr.	PG	Туре	Part Number
Metal lock units				
		PG7	LN-7-MS	T 3 161 0700 01-000
		PG9	LN-9-MS	T 3 161 0900 01-000
20		PG11	LN-11-MS	T 3 161 1100 01-000
		PG13.5	LN-13-MS	T 3 161 1300 01-000
200		PG16	LN-16-MS	T 3 161 1600 01-000
0 00		PG21	LN-21-MS	T 3 161 2100 01-000
O		PG29	LN-29-MS	T 3 161 2900 01-000
		PG36	LN-36-MS	T 3 161 3600 01-000
Material: Nickel plated brass		PG42	LN-42-MS	T 3 161 4200 01-000
Temperature range: -40°C ~ +100°C		PG48	LN-48-MS	T 3 161 4800 01-000
	M12 X 1.5		LN-12-M	T 3 161 1200 50-000
	M16 X 1.5		LN-16-M	T 3 161 1600 50-000
	M20 X 1.5		LN-20-M	T 3 161 2000 50-000
	M25 X 1.5		LN-25-M	T 3 161 2500 50-000
	M32 X 1.5		LN-32-M	T 3 161 3200 50-000
	M40 X 1.5		LN-40-M	T 3 161 4000 50-000
	M50 X 1.5		LN-50-M	T 3 161 5000 50-000
	M63 X 1.5		LN-63-M	T 3 161 6300 50-000
Nylon lock units			·	·
		PG7	LN-7-P	T 3 262 0700 01-000
		PG9	LN-9-P	T 3 262 0900 01-000
- 4 /		PG11	LN-11-P	T 3 262 1100 01-000
		PG13.5	LN-13-P	T 3 262 1300 01-000
200		PG16	LN-16-P	T 3 262 1600 01-000
0 0		PG21	LN-21-P	T 3 262 2100 01-000
0		PG29	LN-29-P	T 3 262 2900 01-000
		PG36	LN-36-P	T 3 262 3600 01-000
Material: PA		PG42	LN-42-P	T 3 262 4200 01-000
Temperature range: -40°C ~ +100°C		PG48	LN-48-P	T 3 262 4800 01-000
	M12 X 1.5		LN-12-PM	T 3 262 1200 50-000
	M16 X 1.5		LN-16-PM	T 3 262 1600 50-000
	M20 X 1.5		LN-20-PM	T 3 262 2000 50-000
	M25 X 1.5		LN-25-PM	T 3 262 2500 50-000
	M32 X 1.5		LN-32-PM	T 3 262 3200 50-000
	M40 X 1.5		LN-40-PM	T 3 262 4000 50-000
	M50 X 1.5		LN-50-PM	T 3 262 5000 50-000
	M63 X 1.5		LN-63-PM	T 3 262 6300 50-000



	Metr.	PG	Туре	Part Number
Metal increasers	,			<u>'</u>
		PG7-PG9	INCR-7/9-PG	T 3 033 0709 01-000
		PG9-PG11	INCR-9/11-PG	T 3 033 0911 01-000
		PG11-PG13.5	INCR-11/13-PG	T 3 033 1113 01-000
		PG11-PG16	INCR-11/16-PG	T 3 033 1116 01-000
		PG13.5-PG16	INCR-13/16-PG	T 3 033 1316 01-000
		PG13.5-PG21	INCR-13/21-PG	T 3 033 1321 01-000
		PG16-PG21	INCR-16/21-PG	T 3 033 1621 01-000
		PG21-PG29	INCR-21/29-PG	T 3 033 2129 01-000
		PG29-PG36	INCR-29/36-PG	T 3 033 2936 01-000
Material: Nickel plated brass		PG36-PG42	INCR-36/42-PG	T 3 033 3642 01-000
Temperature range: -40°C ~ +100°C	M16-M20		INCR-16/20-M	T 3 033 1620 50-000
	M20-M25		INCR-20/25-M	T 3 033 2025 50-000
	M25-M32		INCR-25/32-M	T 3 033 2532 50-000
	M32-M40		INCR-32/40-M	T 3 033 3240 50-000
	M40-M50		INCR-40/50-M	T 3 033 4050 50-000
	M50-M63		INCR-50/63-M	T 3 033 5063 50-000
Metal reducers				
		PG9-PG7	REDU-9/7-PG	T 3 071 0907 01-000
		PG11-PG7	REDU-11/7-PG	T 3 071 1107 01-000
		PG13.5-PG9	REDU-13/9-PG	T 3 071 1309 01-000
		PG13.5-PG11	REDU-13/11-PG	T 3 071 1311 01-000
		PG16-PG9	REDU-16/9-PG	T 3 071 1609 01-000
		PG16-PG11	REDU-16/11-PG	T 3 071 1611 01-000
		PG16-PG13.5	REDU-16/13-PG	T 3 071 1613 01-000
		PG21-PG11	REDU-21/11-PG	T 3 071 2111 01-000
		PG21-PG13.5	REDU-21/13-PG	T 3 071 2111 01 000
		PG21-PG16	REDU-21/16-PG	T 3 071 2116 01-000
Material: Nickel plated brass		PG29-PG16	REDU-29/16-PG	T 3 071 2916 01-000
Temperature range: -40°C ~ +100°C		PG29-PG21	REDU-29/21-PG	T 3 071 2921 01-000
Temperature range40-C ~ +100-C		PG36-PG21	REDU-36/21-PG	T 3 071 3621 01-000
		PG36-PG29	REDU-36/29-PG	T 3 071 3629 01-000
		PG42-PG29	REDU-42/29-PG	T 3 071 4229 01-000
		PG42-PG36	REDU-42/36-PG	T 3 071 4236 01-000
		PG48-PG36	REDU-48/36-PG	T 3 071 4836 01-000
		PG48-PG42	REDU-48/42-PG	T 3 071 4842 01-000
	M16-M12	1 0 10 1 0 12	REDU-16/12-M	T 3 071 1612 50-000
	M20-M12		REDU-20/12-M	T 3 071 2012 50-000
	M20-M16		REDU-20/16-M	T 3 071 2012 50 000
	M25-M20		REDU-25/20-M	T 3 071 2520 50-000
	M32-M20		REDU-32/20-M	T 3 071 3220 50-000
	M32-M25		REDU-32/25-M	T 3 071 3225 50-000
	M40-M25		REDU-40/25-M	T 3 071 3225 50-000
	M40-M32		REDU-40/32-M	T 3 071 4023 50-000
	M50-M32		REDU-40/32-M	T 3 071 5032 50-000
	M50-M40		REDU-50/32-M	T 3 071 5040 50-000
	M63-M40		REDU-63/40-M	T 3 071 6340 50-000
	M63-M50		REDU-63/50-M	T 3 071 6350 50-000
	14102-14120		KEDU-03/30-IYI	1 3 0/1 0330 30-000



			Туре	Dimension	Part Number
Cable clamper	r				
			BK 14	12~14	T 1 918 1214 00-000
			BK 18	14~18	T 1 918 1218 00-000
	ida'd		BK 22	18~22	T 1 922 1822 00-000
-			BK 26	22~26	T 1 926 2226 00-000
	1		BK 32	26~32	T 1 932 2632 00-000
-	- P - CP		BK 34	30~34	T 1 934 3034 00-000
	- 17th		BK 38	34~38	T 1 912 0638 00-000
			BK 42	38~42	T 1 942 3842 00-000
Material: Meta	al		BK 48	42~48	T 1 912 0648 00-000
Protection: IP	65		BK 52	48~52	T 1 912 0652 00-000
			BK 56	52~56	T 1 912 0656 00-000
			BK 60	56~60	T 1 912 0660 00-000
			BK 64	60~64	T 1 964 5664 00-000
C-Type rail	T 19 0000 0000-000	rail adaptor system	BK 70	64~70	T 1 970 6670 00-000
Cable clamper	ſ				
			SKT3-8SC	3-8	T 3 9200 308 01-000
Direct installa	tion yokes	3	SKT4-13SC	4-13.5	T 3 9200 413 01-000
			SKT10-20SC	10-20	T 3 9201 020 01-000
			SKT15-32SC	15-32	T 3 9201 532 01-000
	S		SKTP3-8SC	3-8	T 3 9300 308 01-000
Direct rail mo	unting		SKTP4-13SC	4-13.5	T 3 9300 413 01-000
		200	SKTP10-20SC	10-20	T 3 9301 020 01-000
			SKTP15-32SC	15-32	T 3 9301 532 01-000
M 12			SKT2-6	2-6	T 3 9100 206 01-000
Mounting rails			SKT3-8	3-8	T 3 9100 308 01-000
	age -		SKT4-13.5	4-13.5	T 3 9100 413 01-000
	F		SKT10-20	10-20	T 3 9101 020 01-000
Quick installat	tion vokes	F 0	SKT15-32	15-32	T 3 9101 532 01-000
	A Comment		QSKT 1-6	1.5-6.5	T 3 9300 106 00-000
		10	QSKT 5-11	5-11	T 3 9300 511 00-000
			QSKT 10-17	10-17	T 3 9301 017 00-000

	Туре	Dimension	Туре	Part Number
Clips				
	AD10	10	Clip-06	T 3 310 0100 00-000
140 <u>240</u> 45 W	AD13	13	Clip-09	T 3 310 0130 00-000
	AD15.8	15	Clip-11	T 3 310 0150 00-000
	AD21.2	22	Clip-16	T 3 310 0220 00-000
	AD28.5	28	Clip-21	T 3 310 0280 00-000
	AD34.5	34	Clip-29	T 3 310 0340 00-000
	AD42.5	40	Clip-36	T 3 310 0400 00-000
Material: Stainless steel	AD54.5	54	Clip-48	T 3 310 0540 00-000
Temperature range: -40°C ~ +105°C	AD80	79	Clip-70	T 3 310 0790 00-000
remperature range40-C ~ +105-C	AD106	105	Clip-95	T 3 310 1050 00-000
		1	T. Control of the Con	



	Metr.	PG	Clamp range	Туре	Part Number
Metal cable gland					
		PG7	2~5 3~6.5	DLX-7-NMTS DLX-7-NMS	T 3 629 0701 11-000 T 3 629 0701 01-000
		PG9	2~6 4~8	DLX-9-NMTS DLX-9-NMS	T 3 629 0901 11-000 T 3 629 0901 01-000
		PG11	3~7 5~10	DLX-11-NMTS DLX-11-NMS	T 3 629 1101 11-000 T 3 629 1101 01-000
		PG13.5	5~9 6~12	DLX-13-NMTS DLX-13-NMS	T 3 629 1301 11-000 T 3 629 1301 01-000
Material: Nickel plated brass		PG16	7~12 10~14	DLX-16-NMTS DLX-16-NMS	T 3 629 1601 11-000 T 3 629 1601 01-000
Press seal material: PA Seal material: NBR		PG21	9~16 13~18	DLX-21-NMTS DLX-21-NMS	T 3 629 2101 11-000 T 3 629 2101 01-000
Temperature range: -40°C ~ +100°C Protection: IP68		PG29	13~20 18~25	DLX-29-NMTS DLX-29-NMS	T 3 629 2901 11-000 T 3 629 2901 01-000
		PG36	20~26 22~32	DLX-36-NMTS DLX-36-NMS	T 3 629 3601 11-000 T 3 629 3601 01-000
		PG42	25~31 32~38	DLX-42-NMTS DLX-42-NMS	T 3 629 4201 11-000 T 3 629 4201 01-000
		PG48	29~35 37~44	DLX-48-NMTS DLX-48-NMS	T 3 629 4801 11-000 T 3 629 4801 01-000
	M12 X 1.5		2~5 3~6.5	DLX-12-NMT DLX-12-NM	T 3 629 1201 12-000 T 3 629 1201 02-000
	M16 X 1.5		2~6 4~8	DLX-16-NMT DLX-16-NM	T 3 629 1601 12-000 T 3 629 1601 02-000
	M20 X 1.5		5~9 6~12	DLX-20-NMT DLX-20-NM	T 3 629 2001 12-000 T 3 629 2001 02-000
	M25 X 1.5		9~16 13~18	DLX-25-NMT DLX-25-NM	T 3 629 2501 12-000 T 3 629 2501 02-000
	M32 X 1.5		13~20 18~25	DLX-32-NMT DLX-32-NM	T 3 629 3201 12-000 T 3 629 3201 02-000
	M40 X 1.5		20~26 22~32	DLX-40-NMT DLX-40-NM	T 3 629 4001 12-000 T 3 629 4001 02-000
	M50 X 1.5		25~31 32~38	DLX-50-NMT DLX-50-NM	T 3 629 5001 12-000 T 3 629 5001 02-000
	M63 X 1.5		29~35 37~44	DLX-63-NMT DLX-63-NM	T 3 629 6301 12-000 T 3 629 6301 02-000
Angled metal cable glands					
	M16 X 1.5	PG11 PG13.5 PG16 PG21 PG29 PG36	Ø11 Ø14 Ø16 Ø18 Ø21 Ø31 Ø12	STUD-9-MS STUD-11-MS STUD-13-MS STUD-16-MS STUD-21-MS STUD-29-MS STUD-16-M	T 3 2650 909 01-000 T 3 2651 111 01-000 T 3 2651 313 01-000 T 3 2651 601 01-000 T 3 2652 121 01-000 T 3 2652 929 01-000 T 3 2651 616 11-000
Material: Nickel plated brass Temperature range: -40°C ~ +100°C Protection: IP68	M20 X 1.5 M25 X 1.5 M32 X 1.5 M40 X 1.5		Ø15.5 Ø20.5 Ø27.5 Ø34.5	STUD-20-M STUD-25-M STUD-32-M STUD-40-M	T 3 2652 020 11-000 T 3 2652 525 11-000 T 3 2652 525 11-000 T 3 2654 040 11-000



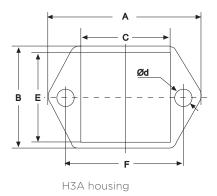
	Metr.	PG	Clamp range	Туре	Part Number
Metal cable gland		-			'
		PG7	6~8	VSM-7-MS	T 3 105 0701 01-000
and a		PG9	5~10	VSM-9-MS	T 3 105 0901 01-000
		PG11	7~12	VSM-11-MS	T 3 105 1101 01-000
		PG13.5	7~12	VSM-13-MS	T 3 1051301 01-000
		PG16	7~15	VSM-16-MS	T 3 105 1601 01-000
		PG21	10~19	VSM-21-MS	T 3 105 2101 01-000
0		PG29	18~27	VSM-29-MS	T 3 105 2901 01-000
		PG36	24~32	VSM-36-MS	T 3 105 3601 01-000
		PG42	30~39	VSM-42-MS	T 3 105 4201 01-000
		PG48	36~45	VSM-48-MS	T 3 105 4801 01-000
Material: Nickel plated brass	M12 X 1.5		4.5~7	VSM-12-M	T 3 105 1200 21-000
Seal material: NBR	M16 X 1.5		6.5~9	VSM-16-M	T 3 105 1600 21-000
Temperature range: -30°C ~ +100°C	M20 X 1.5		6.5~9	VSM-20-M	T 3 105 2000 21-000
Protection: IP55	M20 X 1.5		6~11.5	VSM-20T-M	T 3 105 2001 21-000
	M25 X 1.5		8~13	VSM-25-M	T 3 105 2500 21-000
	M25 X 1.5		12.5~18	VSM-25T-M	T 3 105 2501 21-000
	M32 X 1.5		17~26	VSM-32-M	T 3 105 3200 21-000
	M40 X 1.5		17~26	VSM-40-M	T 3 105 4000 21-000
	M50 X 1.5		27~32	VSM-50-M	T 3 105 5000 21-000
	M50 X 1.5		35~38.5	VSM-50T-M	T 3 105 5001 21-000
	M63 X 1.5		38~44	VSM-63-M	T 3 105 6300 21-000
Extender					
		PG11		STUD-PG11	T 3 333 1111 12-000
		PG13.5		STUD-PG13.5	T 3 333 1313 12-000
		PG16		STUD-PG16	T 3 333 1616 12-000
- Ilu muu		PG21		STUD-PG21	T 3 333 2121 12-000
		PG29		STUD-PG29	T 3 333 2929 12-000
		PG36		STUD-PG36	T 3 333 3636 12-000
	M12 X 1.5			STUD-M12	T 3 333 1212 11-000
	M16 X 1.5			STUD-M16	T 3 333 1616 11-000
	M20 X 1.5			STUD-M20	T 3 333 2020 11-000
Material: Nickel plated brass	M25 X 1.5			STUD-M25	T 3 333 2525 11-000
Temperature range: -40°C ~ +100°C	M32 X 1.5			STUD-M32	T 3 333 3232 11-000
	M40 X 1.5			STUD-M40	T 3 333 4040 11-000
	M50 X 1.5			STUD-M50	T 3 333 5050 11-000
	M63 X 1.5			STUD-M63	T 3 333 6363 11-000

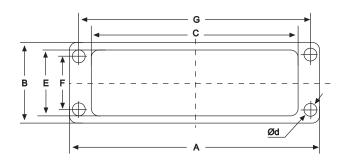


Metr.	PG	Туре	Part Number
	PG11	STUD-PG11	T 3 333 1111 02-000
	PG13.5	STUD-PG13.5	T 3 333 1313 02-000
	PG16	STUD-PG16	T 3 333 1616 02-000
	PG21	STUD-PG21	T 3 333 2121 02-000
	PG29	STUD-PG29	T 3 333 2929 02-000
	PG36	STUD-PG36	T 3 333 3636 02-000
M12 X 1.5		STUD-M12	T 3 333 1212 01-000
M16 X 1.5		STUD-M16	T 3 333 1616 01-000
M20 X 1.5		STUD-M20	T 3 333 2020 01-000
M25 X 1.5		STUD-M25	T 3 333 2525 01-000
M32 X 1.5		STUD-M32	T 3 333 3232 01-000
M40 X 1.5		STUD-M40	T 3 333 4040 01-000
M50 X 1.5		STUD-M50	T 3 333 5050 01-000
M63 X 1.5		STUD-M63	T 3 333 6363 01-000
		WSM-16-MS	T 3 125 1601 11-000
		WSM-21-MS	T 3 125 2101 11-000
		WSM-32-M	T 3 125 3200 01-000
	M12 X 1.5 M16 X 1.5 M20 X 1.5 M25 X 1.5 M32 X 1.5 M40 X 1.5 M50 X 1.5	PG11 PG13.5 PG16 PG21 PG29 PG36 M12 X 1.5 M16 X 1.5 M20 X 1.5 M25 X 1.5 M32 X 1.5 M40 X 1.5 M50 X 1.5	PG11 STUD-PG11 STUD-PG13.5 PG16 STUD-PG16 STUD-PG21 STUD-PG29 PG36 STUD-PG36 STUD-PG36 STUD-M12 STUD-M12 STUD-M16 STUD-M20 M25 X 1.5 M32 X 1.5 M32 X 1.5 M40 X 1.5 M50 X 1.5 M63 X 1.5 STUD-M30 STUD-M30 STUD-M30 STUD-M30 STUD-M40 STUD-M50 STUD-M63 WSM-16-MS WSM-21-MS



Housings mounting dimensions





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

Chall tons	Manager		Dimensions (mm)							
Shell type	Mounted type	Α	В	С	E	F	G	Ød		
НЗА	Bulkhead	40	28	21	21	30	-	3.2		
TISA	Surface	40	28	-	-	30	-	3.2		
H10A	Bulkhead	81	29.5	57.5	24	17.5	70	3.4		
птиА	Surface	A B C E ead 40 28 21 21 ce 40 28 - - ead 81 29.5 57.5 24 ce 80 50 - - ead 96 29.5 73.7 24 ce 96 50 - - ead 102 56 74.2 48.4 ce 106 57 - - ead 80 43 52.2 35 ce 82 52 - - ead 93 43 65.2 35 ce 94 52 - - ead 113 43 85.5 35 ce 144 57 - - ead 144 57 - - ead 124.5 81 - - ead <td>40</td> <td>48</td> <td>4.5</td>	40	48	4.5					
H16A	Bulkhead	96	29.5	73.7	24	17.5	86	3.4		
	Surface 96 50 Bulkhead 102 56 74.2 48.4	-	40	64	4.5					
Н32Д	Bulkhead	102	56	74.2	48.4	42	92	4.4		
	Surface	106	57	-	-	46	94	5.5		
H6B Bulkhead Surface	80	43	52.2	35	32	70	4.4			
	Surface	82	52	-	-	40	70	5.5		
11100	Bulkhead	93	43	65.2	35	32	83	4.3		
HIOR	Surface	94	B C E 28 21 21 28 - - 29.5 57.5 24 50 - - 29.5 73.7 24 50 - - 29.5 73.7 24 50 - - 29.5 74.2 48.4 36 57 - 43 52.2 35 52 - - 43 65.2 35 52 - - 43 85.5 35 57 - - 43 112.2 35 57 - - 43 112.2 35 57 - - 43 112.2 35 57 - - 43 112.2 35 57 - - 43 90 124 82	40	82	5.5				
H16B	Bulkhead	113	43	85.5	35	32	103	4.3		
HILOD	Surface	Bulkhead 40 28 21 21 Surface 40 28 - - - Bulkhead 81 29.5 57.5 24 - Surface 80 50 - - - Bulkhead 96 29.5 73.7 24 - Surface 96 50 - - - Bulkhead 102 56 74.2 48.4 - Surface 106 57 - - - Bulkhead 80 43 52.2 35 35 Surface 82 52 - - - Bulkhead 93 43 65.2 35 35 Surface 94 52 - - - Bulkhead 113 43 85.5 35 35 Surface 117 57 - - - Bulkhead 140 43 112.2 35 35 Surface 124 7	45	105	5.5					
ПЛИВ	Bulkhead	140	43	112.2	35	32	130	4.3		
11240	Surface	144	57	-	-	45	132	5.5		
LIZOD	Bulkhead	124	79	85.5	71	65	110	5.4		
H32B	Surface	Balikhead 40 28 21 21 21 21 21 22 23 24 24 25 24 24 25 24 24	67	112	5.4					
Su	Bulkhead	165	90	124	82	70	148	6.4		
55	Surface	132	120	-	-	106	111	6.5		



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0-0164161-4	111	0-1102839-2	295	0-1103092-2	195
0-0164161-9	111	0-1102839-3	100	0-1103092-3	195
0-0166824-2	111	0-1102839-3	153	0-1103092-4	195
0-1102192-1	100	0-1102839-3	268	0-1103092-5	195
0-1102192-1	153	0-1102839-3	273	0-1103092-8	195
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0-1102192-2	153	0-1102839-4	295	0-1106259-4	296
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0-1102192-2	295	0-1102839-6	273	0-1106401-2	188
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0-1102792-1	152	0-1102840-1	153	0-1106401-3	59
0-1102792-1	266	0-1102840-1	268	0-1106401-3	188
0-1102792-1	293	0-1102840-1	273	0-1106401-4	36
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0-1102836-1	295	0-1102840-2	273	0-1106402-2	187
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1-1102165-2	45	1-1102626-5	151	1-1102664-5	152
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1-1102600-5	58	1-1102631-5	73	1-1102664-5	293
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1-1102601-5	59	1-1102635-5	122	1-1102665-5	294
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1-1102612-5	81	1-1102649-5	176	1-1105001-2	111
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T 1 25 016 3121-000	173	T 1 26 024 3125-000	148	T 1 28 016 3121-000	173
T 1 25 016 3121-000	253	T 1 26 024 3125-000	263	T 1 28 016 3121-000	253
T 1 25 016 3125-000	86	T 1 27 010 3121-000	77	T 1 28 016 3125-000	86
T 1 25 016 3125-000	138	T 1 27 010 3121-000	128	T 1 28 016 3125-000	138
T 1 25 016 3125-000	173	T 1 27 010 3121-000	239	T 1 28 016 3125-000	173
T 1 25 016 3125-000	253	T 1 27 010 3125-000	77	T 1 28 016 3125-000	253
T 1 25 024 3116-000	95	T 1 27 010 3125-000	128	T 1 28 016 3129-000	86
T 1 25 024 3116-000	148	T 1 27 010 3125-000	239	T 1 28 016 3129-000	138
T 1 25 024 3116-000	263	T 1 27 010 3129-000	77	T 1 28 016 3129-000	173
T 1 25 024 3120-000	95	T 1 27 010 3129-000	128	T 1 28 016 3129-000	253
T 1 25 024 3120-000	148	T 1 27 010 3129-000	239	T 1 28 016 3132-000	86
T 1 25 024 3120-000	263	T 1 27 010 3132-000	77	T 1 28 016 3132-000	138
T 1 25 024 3121-000	95	T 1 27 010 3132-000	128	T 1 28 016 3132-000	173
T 1 25 024 3121-000	148	T 1 27 010 3132-000	239	T 1 28 016 3132-000	253
T 1 25 024 3121-000	263	T 1 27 016 3121-000	86	T 1 28 024 3121-000	95
T 1 25 024 3125-000	95	T 1 27 016 3121-000	138	T 1 28 024 3121-000	148
T 1 25 024 3125-000	148	T 1 27 016 3121-000	173	T 1 28 024 3121-000	263
T 1 25 024 3125-000	263	T 1 27 016 3121-000	253	T 1 28 024 3125-000	95
T 1 26 010 3116-000	77	T 1 27 016 3125-000	86	T 1 28 024 3125-000	148
T 1 26 010 3116-000	128	T 1 27 016 3125-000	138	T 1 28 024 3125-000	263
T 1 26 010 3116-000	239	T 1 27 016 3125-000	173	T 1 28 024 3129-000	95
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T 1 26 010 3120-000	128	T 1 27 016 3129-000	86	T 1 28 024 3129-000	263
T 1 26 010 3120-000	239	T 1 27 016 3129-000 T 1 27 016 3129-000	138	T 1 28 024 3132-000	95
T 1 26 010 3121-000 T 1 26 010 3121-000	77 128	T 1 27 016 3129-000	173 253	T 1 28 024 3132-000 T 1 28 024 3132-000	148 263
T 1 26 010 3121-000	239	T 1 27 016 3132-000	253	T 1 31 006 0116-000	71
T 1 26 010 3121-000	239 77	T 1 27 016 3132-000	138	T 1 31 006 0116-000	120
T 1 26 010 3125-000	128	T 1 27 016 3132-000	173	T 1 31 006 0120-000	71
T 1 26 010 3125 000	239	T 1 27 016 3132 000	253	T 1 31 006 0120 000	120
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T 1 26 016 3116-000	253	T 1 27 024 3125-000	95	T 1 31 006 0125-000	120
T 1 26 016 3120-000	86	T 1 27 024 3125-000	148	T 1 31 010 0116-000	78
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T 1 26 016 3125-000	86	T 1 28 010 3121-000	77	T 1 31 010 0121-000	240
T 1 26 016 3125-000	138	T 1 28 010 3121-000	128	T 1 31 010 0125-000	78
T 1 26 016 3125-000	173	T 1 28 010 3121-000	239	T 1 31 010 0125-000	129
T 1 26 016 3125-000	253	T 1 28 010 3125-000	77	T 1 31 010 0125-000	240
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T 1 26 024 3116-000	148	T 1 28 010 3125-000	239	T 1 31 016 0121-000	139
T 1 26 024 3116-000	263	T 1 28 010 3129-000	77	T 1 31 016 0121-000	174



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T 1 31 016 0125-000	87	T 1 31 903 1111-000	34	T 1 32 016 0121-000	174
T 1 31 016 0125-000	139	T 1 31 903 1120-000	34	T 1 32 016 0121-000	254
T 1 31 016 0125-000	174	T 1 31 903 1111-000	34	T 1 32 016 0125-000	87
T 1 31 016 0125-000	254	T 1 31 903 1120-000	57	T 1 32 016 0125-000	139
T 1 31 016 0129-000	87	T 1 31 903 1111-000	57	T 1 32 016 0125-000	174
T 1 31 016 0129-000	139	T 1 31 903 1120-000	186	T 1 32 016 0125-000	254
T 1 31 016 0129-000	174	T 1 31 910 0116-000	38	T 1 32 016 0129-000	87
T 1 31 016 0129-000	254	T 1 31 910 0121-000	38	T 1 32 016 0129-000	139
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T 1 31 016 0132-000	139	T 1 31 910 0125-000	38	T 1 32 016 0129-000	254
T 1 31 016 0132-000	174	T 1 31 910 0116-000	38	T 1 32 016 0132-000	87
T 1 31 016 0132-000	254	T 1 31 910 0121-000	38	T 1 32 016 0132-000	139
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T 1 31 024 0121-000	149	T 1 31 910 0125-000	62	T 1 32 016 0132-000	254
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T 1 31 024 0125-000	96	T 1 31 916 0116-000	65	T 1 32 024 0121-000	149
T 1 31 024 0125-000	149	T 1 31 916 0120-000	40	T 1 32 024 0121-000	264
T 1 31 024 0125-000	264	T 1 31 916 0120-000	65	T 1 32 024 0125-000	96
T 1 31 024 0129-000	96	T 1 31 916 0121-000	40	T 1 32 024 0125-000	149
T 1 31 024 0129-000	149	T 1 31 916 0121-000	65	T 1 32 024 0125-000	264
T 1 31 024 0129-000	264	T 1 31 916 0125-000	40	T 1 32 024 0129-000	96
T 1 31 024 0132-000	96	T 1 31 916 0125-000	65	T 1 32 024 0129-000	149
T 1 31 024 0132-000	149	T 1 31 932 0121-000	42	T 1 32 024 0129-000	264
T 1 31 024 0132-000	264	T 1 31 932 0121-000	68	T 1 32 024 0132-000	96
T 1 31 032 0129-000	105	T 1 31 932 0125-000	42	T 1 32 024 0132-000	149
T 1 31 032 0129-000	159	T 1 31 932 0125-000	68	T 1 32 024 0132-000	264
T 1 31 032 0129-000	180	T 1 31 932 0129-000	42	T 1 32 032 0121-000	105
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T 1 31 032 0140-000	159	T 1 32 006 0116-000	71	T 1 32 032 0129-000	180
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T 1 31 048 0129-000	109	T 1 32 006 0120-000	71	T 1 32 032 0132-000	159
T 1 31 048 0129-000	164	T 1 32 006 0120-000	120	T 1 32 032 0132-000	180
T 1 31 048 0132-000	109	T 1 32 006 0121-000	71	T 1 32 032 0136-000	105
T 1 31 048 0132-000	164	T 1 32 006 0121-000	120	T 1 32 032 0136-000	159
T 1 31 048 0136-000	109	T 1 32 006 0125-000	71	T 1 32 032 0136-000	180
T 1 31 048 0136-000	164	T 1 32 006 0125-000	120	T 1 32 032 0140-000	105
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T 1 31 048 0163-000	164	T 1 32 010 0121-000	129	T 1 32 032 0150-000	180
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T 1 31 903 0111-000	185	T 1 32 010 0125-000	129	T 1 32 048 0132-000	109
T 1 31 903 0120-000	33	T 1 32 010 0125-000	240	T 1 32 048 0132-000	164
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T 1 32 048 0140-000	109	T 1 33 006 0129-000	71	T 1 33 916 0125-000	40
T 1 32 048 0140-000	164	T 1 33 006 0129-000	120	T 1 33 916 0125-000	65
T 1 32 048 0142-000	109	T 1 33 006 0132-000	71	T 1 34 006 0120-000	71
T 1 32 048 0142-000	164	T 1 33 006 0132-000	120	T 1 34 006 0120-000	120
T 1 32 048 0150-000	109	T 1 33 010 0120-000	78	T 1 34 006 0121-000	71
T 1 32 048 0150-000	164	T 1 33 010 0120-000	129	T 1 34 006 0121-000	120
T 1 32 048 0163-000	109	T 1 33 010 0120-000	240	T 1 34 006 0125-000	71
T 1 32 048 0163-000	164	T 1 33 010 0121-000	78	T 1 34 006 0125-000	120
T 1 32 903 0111-000	33	T 1 33 010 0121-000	129	T 1 34 006 0129-000	71
T 1 32 903 0111-000	56	T 1 33 010 0121-000	240	T 1 34 006 0129-000	120
T 1 32 903 0111-000	185	T 1 33 010 0125-000	78	T 1 34 006 0132-000	71
T 1 32 903 0120-000	33	T 1 33 010 0125-000	129	T 1 34 006 0132-000	120
T 1 32 903 0120-000	56	T 1 33 010 0125-000	240	T 1 34 010 0120-000	78
T 1 32 903 0120-000	185	T 1 33 010 0129-000	78	T 1 34 010 0120-000	129
T 1 32 903 1111-000	34	T 1 33 010 0129-000	129	T 1 34 010 0120-000	240
T 1 32 903 1120-000	34	T 1 33 010 0129-000	240	T 1 34 010 0121-000	78
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T 1 32 903 1120-000	57 186	T 1 33 010 0132-000 T 1 33 010 0132-000	129 240	T 1 34 010 0121-000	240 78
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T 1 32 908 0120-000	193	T 1 33 016 0121-000	139	T 1 34 010 0125-000	240
T 1 32 908 0125-000	193	T 1 33 016 0121 000	174	T 1 34 010 0129-000	78
T 1 32 910 0116-000	38	T 1 33 016 0121-000	254	T 1 34 010 0129-000	129
T 1 32 910 0116-000	62	T 1 33 016 0125-000	87	T 1 34 010 0129-000	240
T 1 32 910 0120-000	38	T 1 33 016 0125-000	139	T 1 34 010 0132-000	78
T 1 32 910 0120-000	62	T 1 33 016 0125-000	174	T 1 34 010 0132-000	129
T 1 32 910 0121-000	38	T 1 33 016 0125-000	254	T 1 34 010 0132-000	240
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T 1 32 910 0125-000	38	T 1 33 016 0129-000	139	T 1 34 016 0121-000	139
T 1 32 910 0125-000	62	T 1 33 016 0129-000	174	T 1 34 016 0121-000	174
T 1 32 916 0116-000	40	T 1 33 016 0129-000	254	T 1 34 016 0121-000	254
T 1 32 916 0116-000	65	T 1 33 016 0132-000	87	T 1 34 016 0125-000	87
T 1 32 916 0120-000	40	T 1 33 016 0132-000	139	T 1 34 016 0125-000	139
T 1 32 916 0120-000	65	T 1 33 016 0132-000	174	T 1 34 016 0125-000	174
T 1 32 916 0121-000	40	T 1 33 016 0132-000	254	T 1 34 016 0125-000	254
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T 1 32 932 0121-000	42	T 1 33 016 0140-000	254	T 1 34 016 0129-000	254
T 1 32 932 0121-000	68	T 1 33 024 0121-000	96	T 1 34 016 0132-000	87
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T 1 32 932 0125-000 T 1 32 932 0129-000	42	T 1 33 024 0121-000	264 96	T 1 34 016 0132-000	174 254
T 1 32 932 0129-000	68	T 1 33 024 0125-000	149	T 1 34 016 0140-000	87
T 1 32 932 0132-000	42	T 1 33 024 0125 000	264	T 1 34 016 0140-000	139
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T 1 32 932 0136-000	42	T 1 33 024 0129-000	149	T 1 34 016 0140-000	254
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T 1 32 932 0140-000	42	T 1 33 024 0132-000	96	T 1 34 024 0121-000	149
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T 1 33 006 0121-000	120	T 1 33 024 0140-000	264	T 1 34 024 0129-000	96
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T 1 34 024 0132-000	149	T 1 44 010 1216-000	77	T 1 44 032 2150-000	158
T 1 34 024 0132-000	264	T 1 44 010 1216-000	128	T 1 44 032 2150-000	179
T 1 34 024 0140-000	96	T 1 44 010 1216-000	239	T 1 44 032 2163-000	104
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T 1 31 908 0120-000	193	T 1 44 010 1225-000	128	T 1 44 032 2232-000	179
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T 1 41 010 1000-000	77	T 1 44 016 1121-000	86	T 1 44 032 2236-000	158
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T 1 41 010 1000-000	239	T 1 44 016 1121-000	173	T 1 44 032 2240-000	104
T 1 41 016 1000-000	86	T 1 44 016 1121-000	253	T 1 44 032 2240-000	158
T 1 41 016 1000-000	138	T 1 44 016 1125-000	86	T 1 44 032 2240-000	179
T 1 41 016 1000-000	173	T 1 44 016 1125-000	138	T 1 44 032 2242-000	104
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T 1 41 032 2000-000	104	T 1 44 016 1221-000	173	T 1 44 032 2250-000	179
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T 1 46 010 0116-000	77	T 1 44 024 1121-000	95	T 1 44 932 0121-000	42
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T 1 46 010 0220-000	239	T 1 47 016 1121-000	138	T 1 49 010 0121-000	128
T 1 46 010 0221-000	77	T 1 47 016 1121-000	173	T 1 49 010 0121-000	239
T 1 46 010 0221-000	128	T 1 47 016 1121-000	253	T 1 49 010 0125-000	77
T 1 46 010 0221-000	239	T 1 47 016 1125-000	86	T 1 49 010 0125-000	128
T 1 46 010 0225-000	77	T 1 47 016 1125-000	138	T 1 49 010 0125-000	239
T 1 46 010 0225-000	128	T 1 47 016 1125-000	173	T 1 49 010 0129-000	77
T 1 46 010 0225-000	239	T 1 47 016 1125-000	253	T 1 49 010 0129-000	128
T 1 46 016 0125-000	86	T 1 47 016 1129-000	86	T 1 49 010 0129-000	239
T 1 46 016 0125-000	138	T 1 47 016 1129-000	138	T 1 49 010 0132-000	77
T 1 46 016 0125-000	173	T 1 47 016 1129-000	173	T 1 49 010 0132-000	128
T 1 46 016 0125-000	253	T 1 47 016 1129-000	253	T 1 49 010 0132-000	239
T 1 46 016 0221-000	86	T 1 47 016 1132-000	86	T 1 49 010 0221-000	77
T 1 46 016 0221-000	138	T 1 47 016 1132-000	138	T 1 49 010 0221-000	128
T 1 46 016 0221-000	173	T 1 47 016 1132-000	173	T 1 49 010 0221-000	239
T 1 46 016 0221-000	253	T 1 47 016 1132-000	253	T 1 49 010 0225-000	77
T 1 46 016 0225-000 T 1 46 016 0225-000	86	T 1 47 016 1221-000	86	T 1 49 010 0225-000	128
T 1 46 016 0225-000	138 173	T 1 47 016 1221-000 T 1 47 016 1221-000	138 173	T 1 49 010 0225-000 T 1 49 010 0229-000	239 77
T 1 46 016 0225-000	253	T 1 47 016 1221-000	253	T 1 49 010 0229-000	128
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T 1 46 024 0121-000	148	T 1 47 016 1225 000	138	T 1 49 010 0232-000	77
T 1 46 024 0121-000	263	T 1 47 016 1225-000	173	T 1 49 010 0232-000	128
T 1 46 024 0125-000	95	T 1 47 016 1225-000	253	T 1 49 010 0232-000	239
T 1 46 024 0125-000	148	T 1 47 016 1229-000	86	T 1 49 016 0121-000	86
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T 1 46 024 0221-000	148	T 1 47 016 1229-000	253	T 1 49 016 0121-000	253
T 1 46 024 0221-000	263	T 1 47 016 1232-000	86	T 1 49 016 0125-000	86
T 1 46 024 0225-000	95	T 1 47 016 1232-000	138	T 1 49 016 0125-000	138
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T 1 46 024 0225-000	263	T 1 47 016 1232-000	253	T 1 49 016 0125-000	253
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T 1 47 010 1121-000	128	T 1 47 024 1121-000	148	T 1 49 016 0129-000	138
T 1 47 010 1121-000	239	T 1 47 024 1121-000	263	T 1 49 016 0129-000	173
T 1 47 010 1125-000	77	T 1 47 024 1125-000	95	T 1 49 016 0129-000	253
T 1 47 010 1125-000	128	T 1 47 024 1125-000	148	T 1 49 016 0132-000	86
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T 1 47 010 1129-000	77	T 1 47 024 1129-000	95	T 1 49 016 0221-000	138
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T 1 47 010 1132 000	239	T 1 47 024 1132 000	263	T 1 49 016 0221-000	253
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T 1 47 010 1221-000	128	T 1 47 024 1221-000	148	T 1 49 016 0225-000	138
T 1 47 010 1221-000	239	T 1 47 024 1221-000	263	T 1 49 016 0225-000	173
T 1 47 010 1225-000	77	T 1 47 024 1225-000	95	T 1 49 016 0225-000	253
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T 1 47 010 1225-000	239	T 1 47 024 1225-000	263	T 1 49 016 0229-000	138
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T 1 47 010 1229-000	128	T 1 47 024 1229-000	148	T 1 49 016 0229-000	253
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T 1 47 010 1232-000	128	T 1 47 024 1232-000	148	T 1 49 016 0232-000	173



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T 1 49 024 0121-000	95	T 1 51 010 3000-000	79	T 1 61 010 3125-000	241
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T 1 49 024 0121-000	263	T 1 51 010 3000-000	241	T 1 61 010 3216-000	130
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T 1 49 024 0129-000	95	T 1 51 016 3000-000	88	T 1 61 010 3220-000	241
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T 1 49 024 0221-000	95	T 1 51 024 3000-000	265	T 1 61 010 3225-000	241
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T 1 49 024 0221-000	263	T 1 51 032 2000-000	159	T 1 61 016 3116-000	140
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T 1 49 024 0225-000	148	T 1 51 048 2000-000	109	T 1 61 016 3116-000	255
T 1 49 024 0225-000	263	T 1 51 048 2000-000	164	T 1 61 016 3120-000	88
T 1 49 024 0229-000	95	T 1 51 910 1000-000	38	T 1 61 016 3120-000	140
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T 1 49 024 0229-000	263	T 1 51 910 1000-000	62	T 1 61 016 3120-000	255
T 1 49 024 0232-000	95	T 1 51 910 1000-000	62	T 1 61 016 3121-000	88
T 1 49 024 0232-000	148	T 1 51 916 1000-000	40	T 1 61 016 3121-000	140
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T 1 50 006 2000-000	72	T 1 51 916 2000-000	40	T 1 61 016 3121-000	255
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T 1 50 010 3000-000	79	T 1 54 903 0000-000	33	T 1 61 016 3125-000	140
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T 1 50 010 3000-000	241	T 1 54 903 0000-000	185	T 1 61 016 3125-000	255
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T 1 50 016 3000-000	255	T 1 61 006 2120-000	121	T 1 61 016 3216-000	255
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T 1 50 032 2000-000	105	T 1 61 006 2125-000	121	T 1 61 016 3220-000	255
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T 1 51 006 2100-000	72	T 1 61 010 3125-000	79	T 1 61 024 3125-000	97



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T 1 61 024 3125-000	265	T 1 61 903 0111-000	56	T 1 62 006 2125-000	121
T 1 61 024 3216-000	97	T 1 61 903 0111-000	185	T 1 62 006 2216-000	72
T 1 61 024 3216-000	150	T 1 61 903 0116-000	33	T 1 62 006 2216-000	121
T 1 61 024 3216-000	265	T 1 61 903 0116-000	56	T 1 62 006 2220-000	72
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T 1 61 024 3220-000	265	T 1 61 903 0120-000	56	T 1 62 006 2221-000	121
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T 1 61 024 3225-000	97	T 1 61 903 1120-000	34	T 1 62 010 3116-000	130
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T 1 61 032 2129-000	159	T 1 61 903 1111-000	57	T 1 62 010 3120-000	241
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T 1 61 032 2240-000 T 1 61 048 2129-000	180 109	T 1 61 910 1221-000 T 1 61 910 1225-000	62	T 1 62 010 3225-000 T 1 62 010 3225-000	79
T 1 61 048 2129-000	164	T 1 61 910 1225-000	38 62	T 1 62 010 3225-000	130 241
T 1 61 048 2132-000	104	T 1 61 916 1116-000	40	T 1 62 016 3116-000	88
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T 1 62 016 3220-000	255	T 1 62 048 0136-000	164	T 1 65 006 2129-000	121
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	105	T 1 62 916 1116-000	65	T 1 65 016 3121-000	140
T 1 62 032 0132-000 T 1 62 032 0132-000	159 180	T 1 62 916 1120-000 T 1 62 916 1120-000	40	T 1 65 016 3121-000	175 255
T 1 62 032 0132-000	105	T 1 62 916 1121-000	65 40	T 1 65 016 3125-000	88
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T 1 62 048 0132-000	164	T 1 65 006 2125-000	121	T 1 65 016 3221-000	255



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T 1 65 016 3225-000	175	T 1 66 010 3129-000	79	T 1 66 024 3129-000	97
T 1 65 016 3225-000	255	T 1 66 010 3129-000	130	T 1 66 024 3129-000	150
T 1 65 016 3229-000	88	T 1 66 010 3129-000	241	T 1 66 024 3129-000	265
T 1 65 016 3229-000	140	T 1 66 010 3132-000	79	T 1 66 024 3132-000	97
T 1 65 016 3229-000	175	T 1 66 010 3132-000	130	T 1 66 024 3132-000	150
T 1 65 016 3229-000	255	T 1 66 010 3132-000	241	T 1 66 024 3132-000	265
T 1 65 016 3232-000	88	T 1 66 010 3221-000	79	T 1 66 024 3221-000	97
T 1 65 016 3232-000	140	T 1 66 010 3221-000	130	T 1 66 024 3221-000	150
T 1 65 016 3232-000	175	T 1 66 010 3221-000	241	T 1 66 024 3221-000	265
T 1 65 016 3232-000	255	T 1 66 010 3225-000	79	T 1 66 024 3225-000	97
T 1 65 024 3121-000	97	T 1 66 010 3225-000	130	T 1 66 024 3225-000	150
T 1 65 024 3121-000	150	T 1 66 010 3225-000	241	T 1 66 024 3225-000	265
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T 1 65 024 3125-000	150	T 1 66 010 3229-000	241	T 1 66 024 3229-000	265
T 1 65 024 3125-000 T 1 65 024 3129-000	265	T 1 66 010 3232-000	79	T 1 66 024 3232-000	97
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T 1 65 024 3129-000	265	T 1 66 016 3232-000	88	T 1 71 010 1116-000	76
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T 1 65 024 3132 000	150	T 1 66 016 3121-000	175	T 1 71 010 1116 000	238
T 1 65 024 3132-000	265	T 1 66 016 3121-000	255	T 1 71 010 1110 000	76
T 1 65 024 3221-000	97	T 1 66 016 3125-000	88	T 1 71 010 1120-000	127
T 1 65 024 3221-000	150	T 1 66 016 3125-000	140	T 1 71 010 1120-000	238
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T 1 65 024 3225-000	97	T 1 66 016 3125-000	255	T 1 71 010 1125-000	127
T 1 65 024 3225-000	150	T 1 66 016 3129-000	88	T 1 71 010 1125-000	238
T 1 65 024 3225-000	265	T 1 66 016 3129-000	140	T 1 71 016 1121-000	85
T 1 65 024 3229-000	97	T 1 66 016 3129-000	175	T 1 71 016 1121-000	137
T 1 65 024 3229-000	150	T 1 66 016 3129-000	255	T 1 71 016 1121-000	172
T 1 65 024 3229-000	265	T 1 66 016 3132-000	88	T 1 71 016 1121-000	252
T 1 65 024 3232-000	97	T 1 66 016 3132-000	140	T 1 71 016 1125-000	85
T 1 65 024 3232-000	150	T 1 66 016 3132-000	175	T 1 71 016 1125-000	137
T 1 65 024 3232-000	265	T 1 66 016 3132-000	255	T 1 71 016 1125-000	172
T 1 66 006 2121-000	72	T 1 66 016 3221-000	88	T 1 71 016 1125-000	252
T 1 66 006 2121-000	121	T 1 66 016 3221-000	140	T 1 71 016 1132-000	85
T 1 66 006 2125-000	72	T 1 66 016 3221-000	175	T 1 71 016 1132-000	137
T 1 66 006 2125-000	121	T 1 66 016 3221-000	255	T 1 71 016 1132-000	172
T 1 66 006 2129-000	72	T 1 66 016 3225-000	88	T 1 71 016 1132-000	252
T 1 66 006 2129-000	121	T 1 66 016 3225-000	140	T 1 71 024 1121-000	94
T 1 66 006 2132-000	72	T 1 66 016 3225-000	175	T 1 71 024 1121-000	147
T 1 66 006 2132-000	121	T 1 66 016 3225-000	255	T 1 71 024 1121-000	262
T 1 66 006 2221-000	72	T 1 66 016 3229-000	88	T 1 71 024 1125-000	94
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T 1 71 032 2142-000	179	T 1 73 903 1111-000	34	T 1 75 024 1129-000	94
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T 1 73 006 2120-000	120	T 1 73 910 1125-000	38	T 1 77 006 2120-000	120
T 1 73 006 2125-000	71	T 1 73 910 1125-000	62	T 1 77 006 2121-000	71
T 1 73 006 2125-000	120	T 1 73 916 1116-000	40	T 1 77 006 2121-000	120
T 1 73 010 3116-000	78	T 1 73 916 1116-000	65	T 1 77 006 2125-000	71
T 1 73 010 3116-000	129	T 1 73 916 1120-000	40	T 1 77 006 2125-000	120
T 1 73 010 3116-000	240	T 1 73 916 1120-000	65	T 1 77 006 2129-000	71
T 1 73 010 3120-000	78	T 1 73 916 1125-000	40	T 1 77 006 2129-000	120
T 1 73 010 3120-000	129	T 1 73 916 1125-000	65	T 1 77 006 2132-000	71
T 1 73 010 3120-000	240	T 1 75 010 1121-000	76	T 1 77 006 2132-000	120
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T 1 73 010 3125-000	240	T 1 75 010 1125-000	76	T 1 77 010 3121-000	240
T 1 73 016 3121-000	87	T 1 75 010 1125-000	127	T 1 77 010 3125-000	78
T 1 73 016 3121-000	139	T 1 75 010 1125-000	238	T 1 77 010 3125-000	129
T 1 73 016 3121-000	174	T 1 75 010 1129-000	76	T 1 77 010 3125-000	240
T 1 73 016 3121-000	254	T 1 75 010 1129-000	127	T 1 77 010 3129-000	78
T 1 73 016 3125-000	87	T 1 75 010 1129-000	238	T 1 77 010 3129-000	129
T 1 73 016 3125-000	139	T 1 75 010 1132-000	76	T 1 77 010 3129-000	240
T 1 73 016 3125-000	174	T 1 75 010 1132-000	127	T 1 77 010 3132-000	78
T 1 73 016 3125-000	254	T 1 75 010 1132-000	238	T 1 77 010 3132-000	129
T 1 73 016 3129-000	87	T 1 75 016 1121-000	85	T 1 77 010 3132-000	240
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T 1 73 016 3129-000	174	T 1 75 016 1121-000	172	T 1 77 016 3121-000	139
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T 1 73 016 3132-000	87	T 1 75 016 1125-000	85	T 1 77 016 3121-000	254
T 1 73 016 3132-000	139	T 1 75 016 1125-000	137	T 1 77 016 3125-000	87
T 1 73 016 3132-000	174	T 1 75 016 1125-000	172	T 1 77 016 3125-000	139
T 1 73 016 3132-000	254	T 1 75 016 1125-000	252	T 1 77 016 3125-000	174
T 1 73 024 2121-000	96	T 1 75 016 1129-000	85	T 1 77 016 3125-000	254
T 1 73 024 2121-000	149	T 1 75 016 1129-000	137	T 1 77 016 3129-000	87
T 1 73 024 2121-000	264	T 1 75 016 1129-000	172	T 1 77 016 3129-000	139
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T 1 73 024 2125-000	149	T 1 75 016 1132-000	85	T 1 77 016 3129-000	254
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T 1 73 024 2129-000	149	T 1 75 016 1132-000	252	T 1 77 016 3132-000	174
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T 1 77 024 3121-000	96	T 1 91 016 0121-000	297	T 1 92 024 0121-000	297
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T 1 77 024 3132-000	149	T 1 91 024 0140-000	297	T 1 92 206 1140-000	299
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T 1 77 024 3140-000	96	T 1 91 206 1125-000	299	T 1 92 210 1125-000	299
T 1 77 024 3140-000	149	T 1 91 206 1129-000	299	T 1 92 210 1129-000	299
T 1 77 024 3140-000	264	T 1 91 206 1132-000	299	T 1 92 210 1132-000	299
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T 1 87 000 2201-000	306	T 1 92 006 0116-000	297	T 1 93 224 1000-000	299
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T 1 932 2632 00-000	326	T 2 02 000 1010-000	60	T 2 02 000 1025-000	101
T 1 934 3034 00-000	326	T 2 02 000 1015-000	60	T 2 02 000 1002-000	103
T 1 942 3842 00-000	326	T 2 02 000 1025-000	60	T 2 02 000 1005-000	103
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T 2 01 016 4201-000	39	T 2 02 000 1005-000	74	T 2 02 000 1010-000	110
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T 2 02 000 1010-000	48	T 2 02 000 1025-000	91	T 2 02 000 1005-000	223
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T 2 02 000 1002-000	55	T 2 02 000 1008-000	93	T 2 02 000 1015-000	223
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